



# Installation instructions, accessories

Volvo Car Corporation Gothenburg, Sweden

Instruction No	Version	Part. No.
31454806	1.1	31454570, 31454571, 31650295, 31650296, 31650297, 31650298

## Polestar chassis kit



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## Special tools

	<p>951 2945 Puller</p> <p>Tool number:951 2945</p> <p>Tool description:Puller</p> <p>Tool boards:61</p>
	<p>999 7310 Press tool</p> <p>Tool number:999 7310</p> <p>Tool description:Press tool</p> <p>Tool boards:61</p>
	<p>999 7076 Lever</p> <p>Tool number:999 7076</p> <p>Tool description:Lever</p> <p>Tool boards:46</p>
	<p>999 7088 Expander</p> <p>Tool number:999 7088</p> <p>Tool description:Expander</p> <p>Tool boards:61</p>
	<p>951 2911 Hydraulic piston</p> <p>Tool number:951 2911</p> <p>Tool description:Hydraulic piston</p> <p>Tool boards:70</p>
	<p>951 2914 Claw (size 2, for hydraulic piston 9512911)</p> <p>Tool number:951 2914</p> <p>Tool description:Claw (size 2, for hydraulic piston 9512911)</p> <p>Tool boards:70</p>
	<p>999 7477 Wire</p> <p>Tool number:999 7477</p> <p>Tool description:Wire</p> <p>Tool boards:70</p>



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999 5500 SOCKET UPPER NUT REAR SHOCK ABSORBER

Tool number:999 5500

Tool description:SOCKET UPPER NUT REAR SHOCK ABSORBER

Tool boards:70

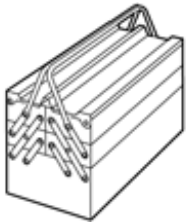
951 2913 Claw (size 1, for hydraulic piston 9512911)

Tool number:951 2913

Tool description:Claw (size 1, for hydraulic piston 9512911)

Tool boards:70

## Equipment



IMG-345497



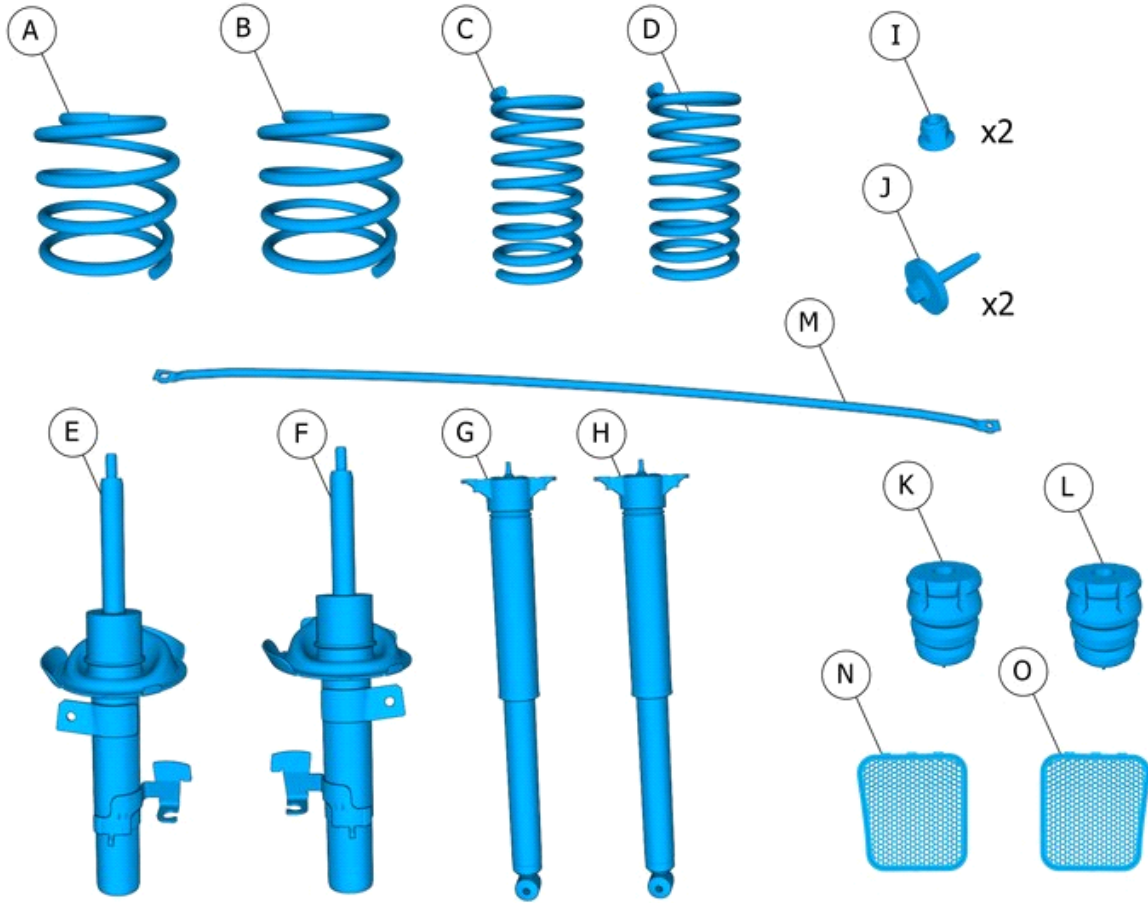
IMG-239664

**Nm**  
**lbf.ft**



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IMG-418323



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## Information

1

Read through all of the instructions before starting installation.

Notifications and warning texts are for your safety and to minimise the risk of something breaking during installation.

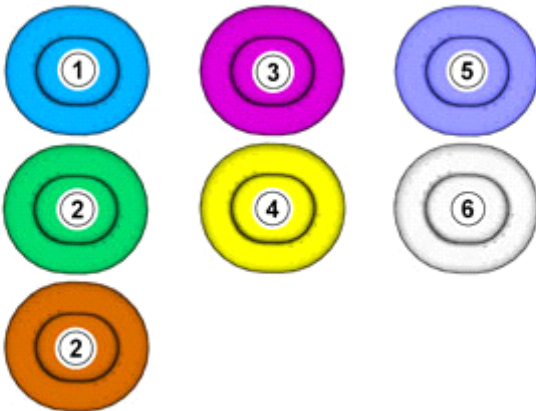
Ensure that all tools stated in the instructions are available before starting installation.

Certain steps in the instructions are only presented in the form of images. Explanatory text is also given for more complicated steps.

In the event of any problems with the instructions or the accessory, contact your local Volvo dealer.

## Color symbols

2



IMG-363036

### Note!

This colour chart displays (in colour print and electronic version) the importance of the different colours used in the images of the method steps.

- Used for focused component, the component with which you will do something.
- Used as extra colors when you need to show or differentiate additional parts.
- Used for attachments that are to be removed/installed. May be screws, clips, connectors, etc.
- Used when the component is not fully removed from the vehicle but only hung to the side.
- Used for standard tools and special tools.
- Used as background color for vehicle components.

## Removal

3

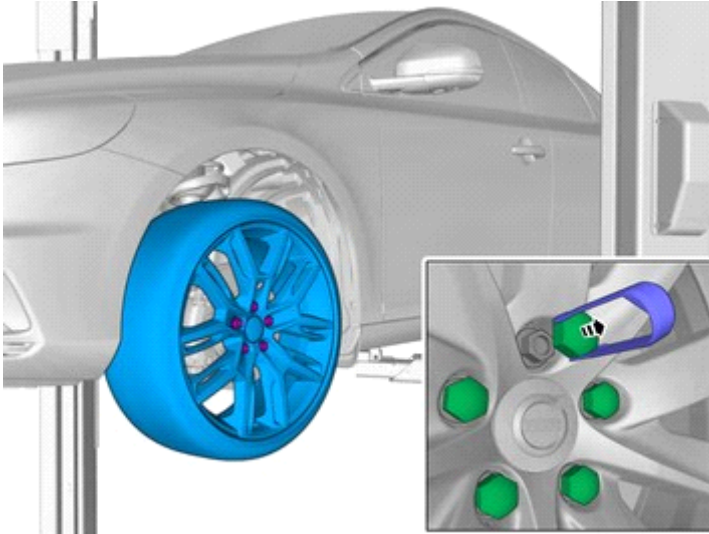
Raise the car.



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4



IMG-417562

Remove the nuts.

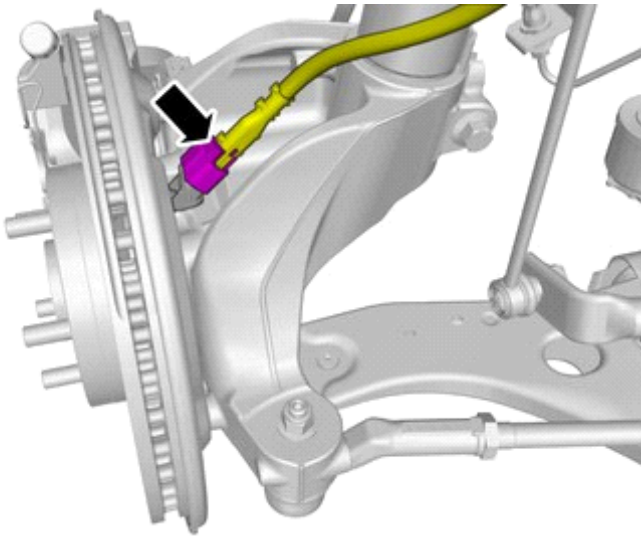
Remove the marked part.

**Tightening torque:** Wheel to wheel hub

Stage 1: 20 Nm

Stage 2: 140 Nm

5



IMG-417390

Disconnect the connector.

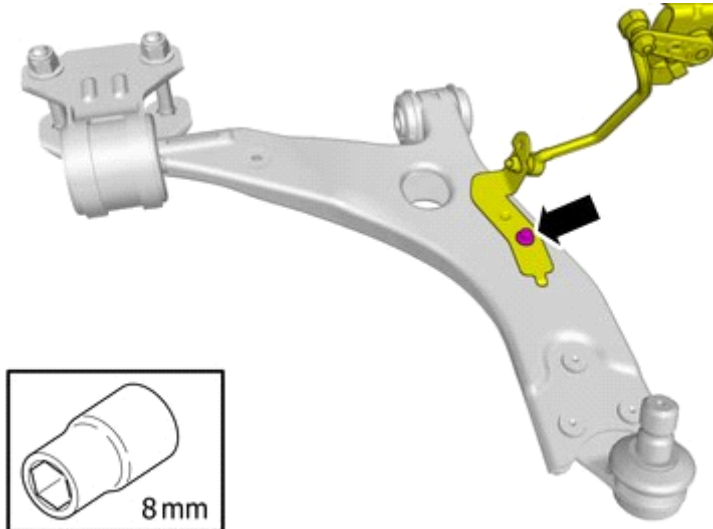
**Applies to the right-hand side**



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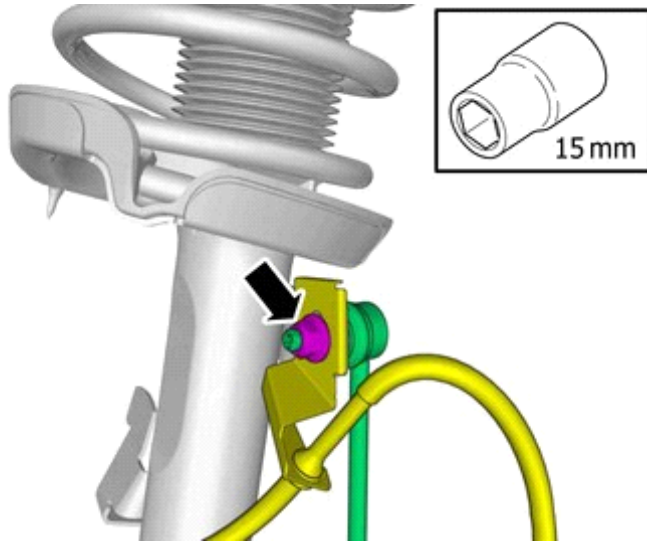


IMG-417712

Remove the screw.

**Tightening torque:** Headlamp levelling position sensor to control arm , 6 Nm

7



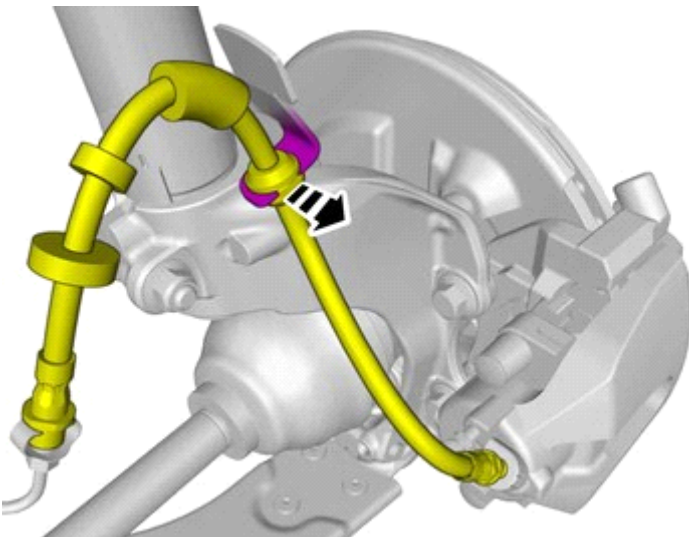
IMG-417395

Remove the nut.

Fold marked part to one side.

**Tightening torque:** Front stabilizer bar link to strut and spring assembly , 55 Nm

8



IMG-417400

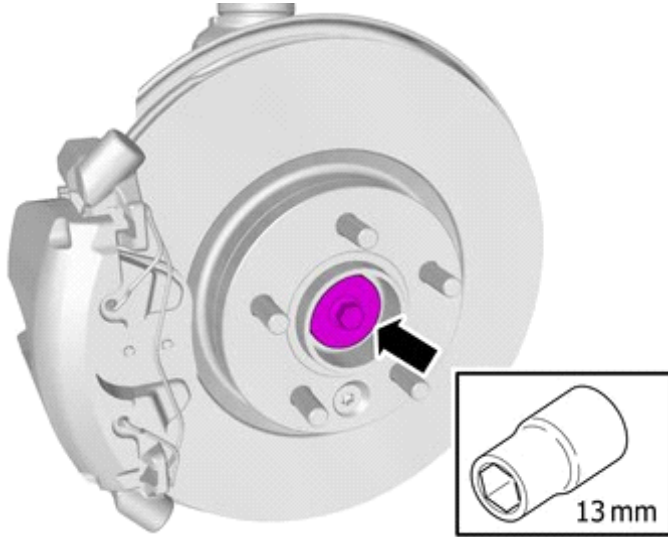
Remove the part carefully



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IMG-417403

**Warning!**

Make sure that a new bolt is installed.

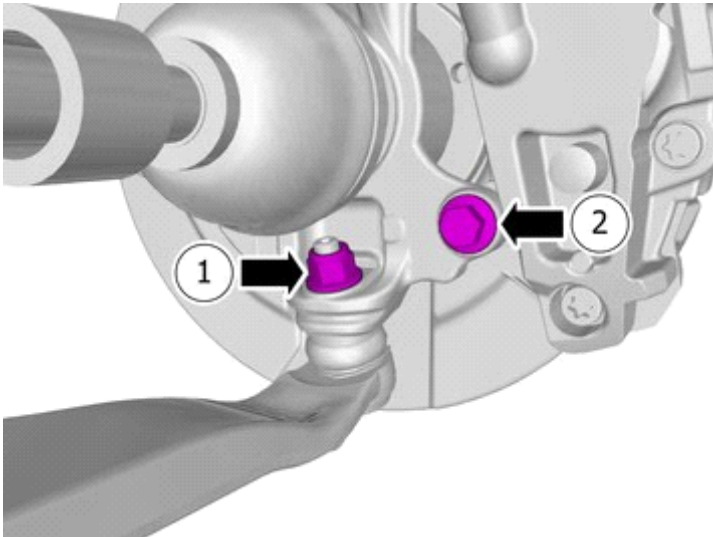
Remove the screw.

**Tightening torque:** Driveshaft to wheel hub (front)

Stage 1: 35 Nm

Stage 2: 90 degree

10



IMG-418185

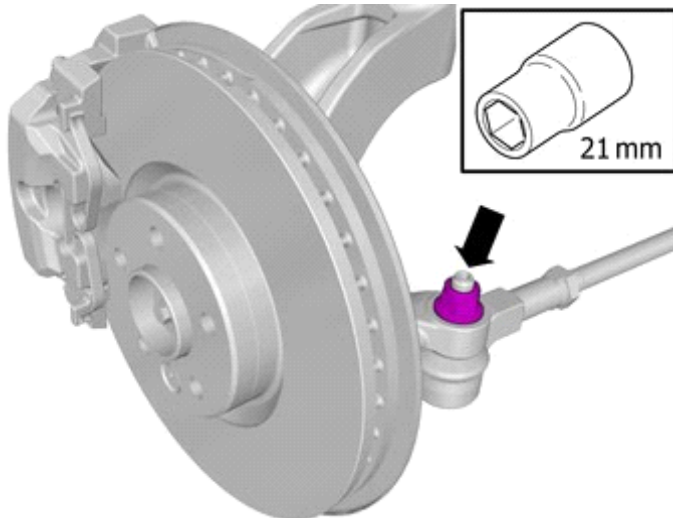
Remove the nut.

Remove the screw.

**Tightening torque:** Ball joint to wheel knuckle , 100 Nm

**Tightening torque:** Mount front brake caliper , 200 Nm

11



IMG-418169

Remove the nut.

**Tightening torque:** Tie rod end to wheel knuckle , 80 Nm

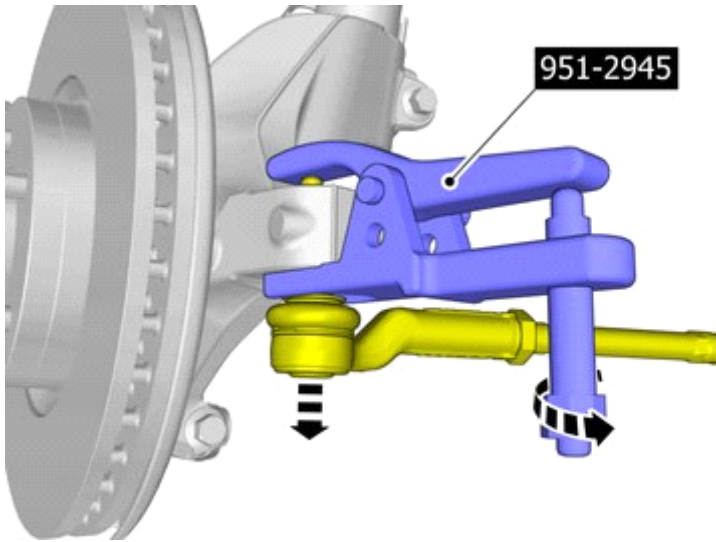




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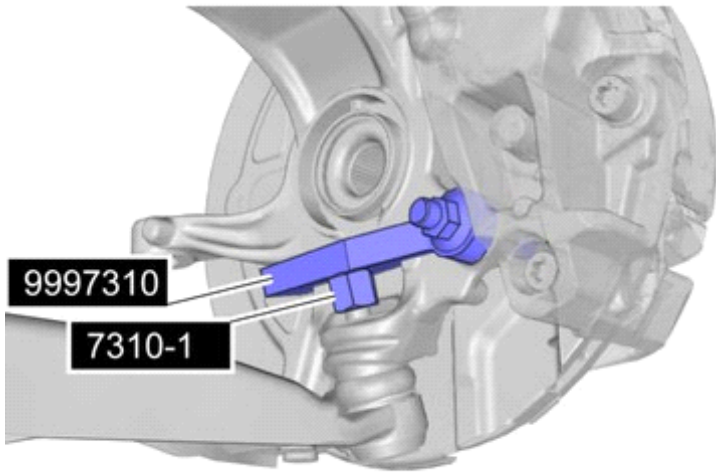
12



IMG-417406

Use special tool: T9512945, Puller

13



IMG-418214

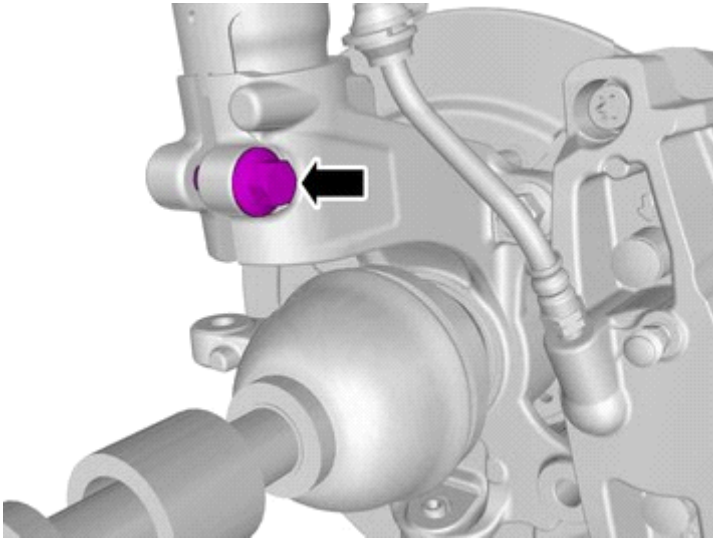
Use special tool: T9997310, Press tool



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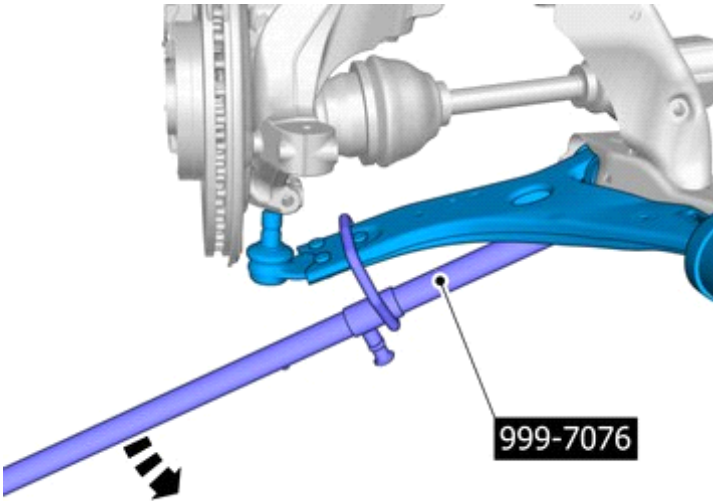


IMG-418221

Remove the screw.

**Tightening torque:** Wheel knuckle to strut and spring assembly , 110 Nm

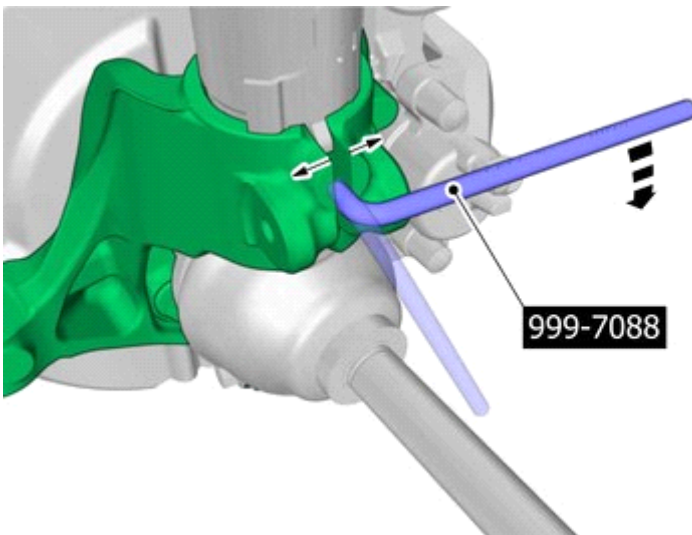
15



IMG-418235

**Use special tool:** T9997076, Lever

16



IMG-417433

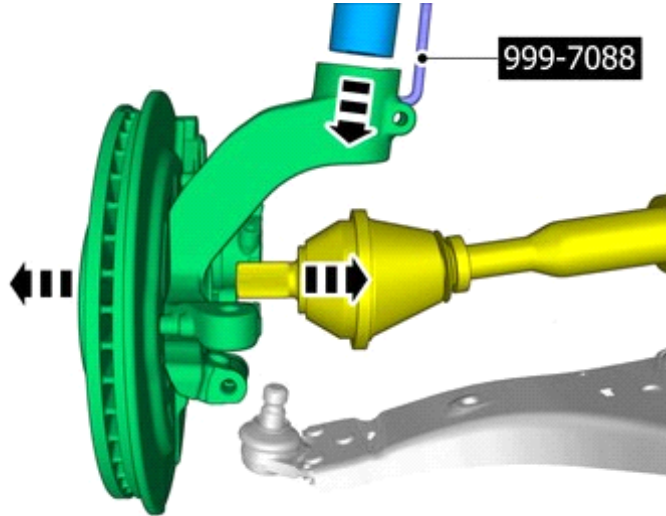
**Use special tool:** T9997088, Expander



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**Warning!**

Make sure that no load is placed on the brake hose.

**Caution!**

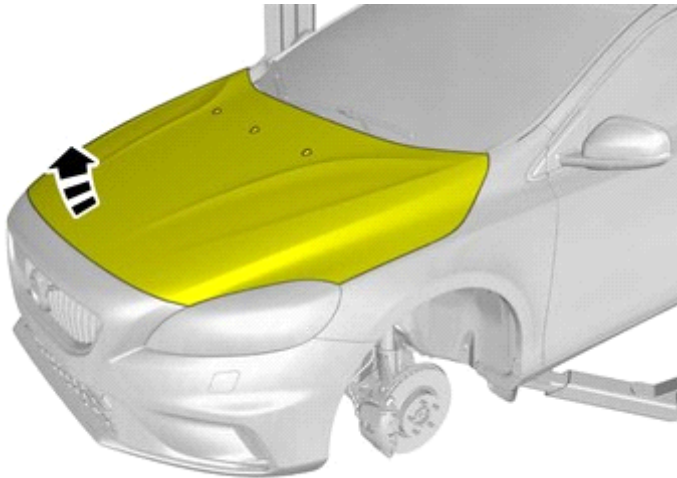
Make sure that the inner constant velocity (CV) joint does not separate.

IMG-418244

18

Repeat the steps when removing on opposite side.

19



Open the hood.

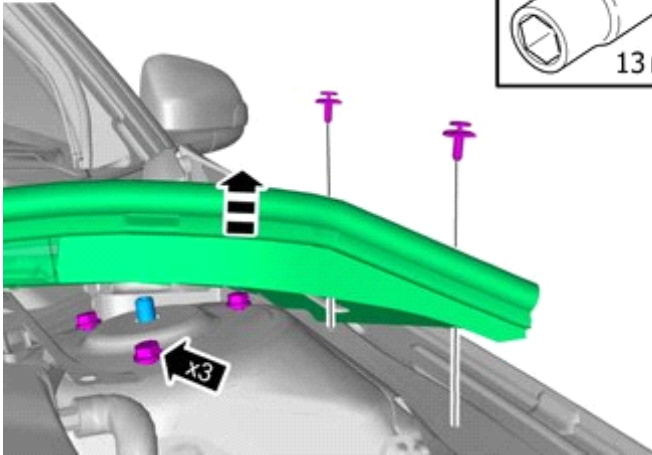
IMG-417486



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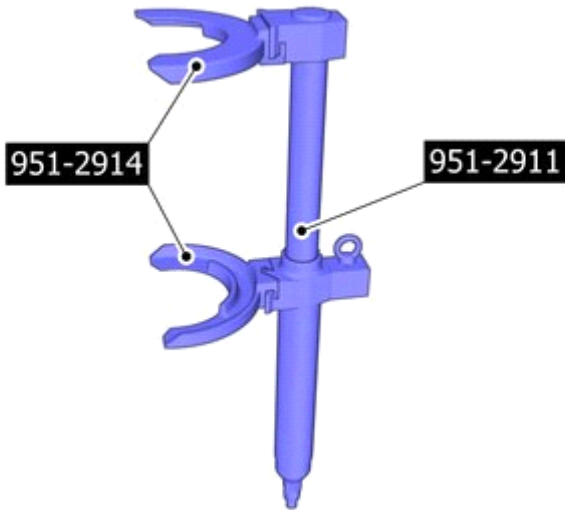


IMG-418276

Loosen the clips.

Remove the screws.

21

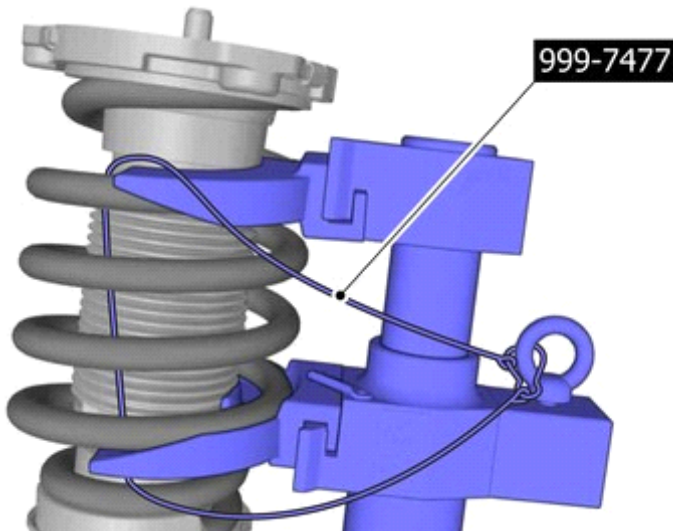


IMG-418282

**Use special tool:** T9512911, Hydraulic piston

**Use special tool:** T9512914, Claw (size 2, for hydraulic piston 9512911)

22



IMG-417552

**Warning!**

The safety wire must be installed while the spring is compressed.

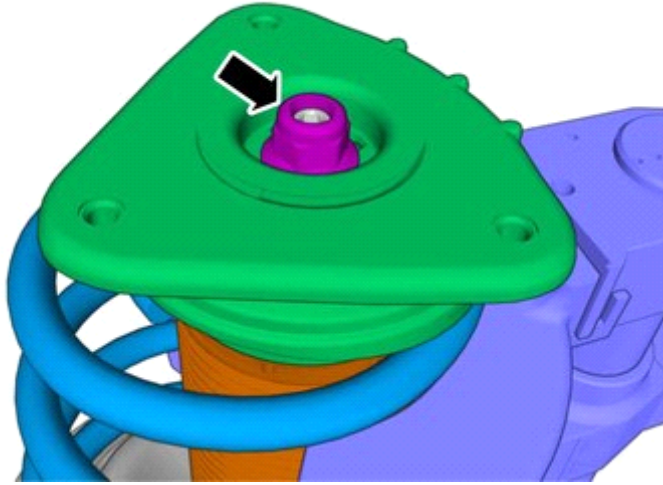
**Use special tool:** T9997477, Wire



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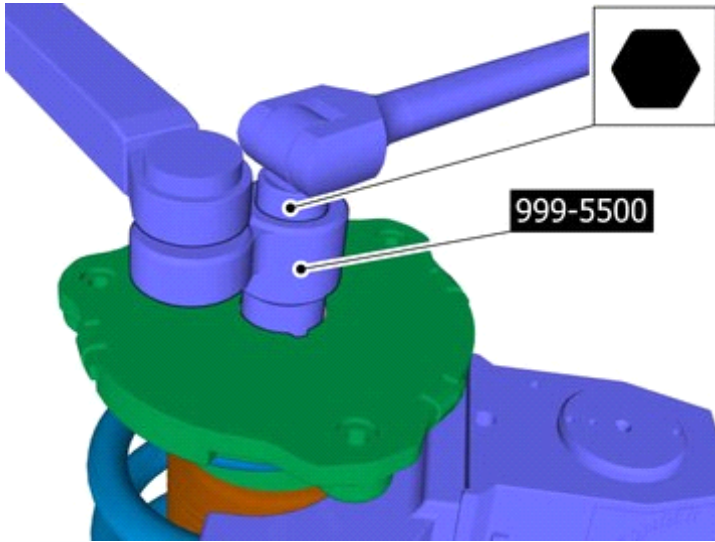


IMG-417561

**Warning!**

Make sure that a new nut is installed.

24



IMG-417560

Remove the nut.

**Use special tool:** T9995500, SOCKET UPPER NUT REAR SHOCK ABSORBER

**Tightening torque:** Bearing front shock absorber to shock absorber , 50 Nm

25

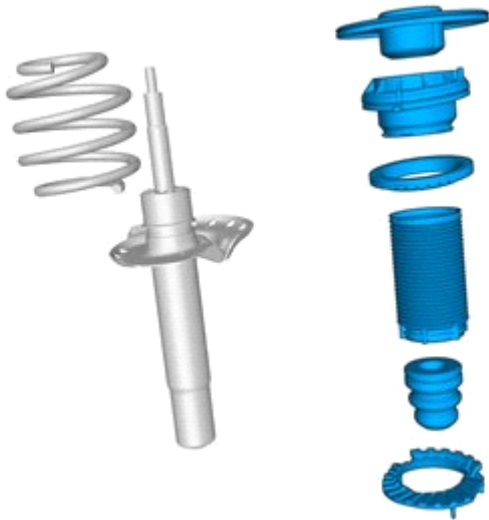
Repeat the steps when removing on opposite side.



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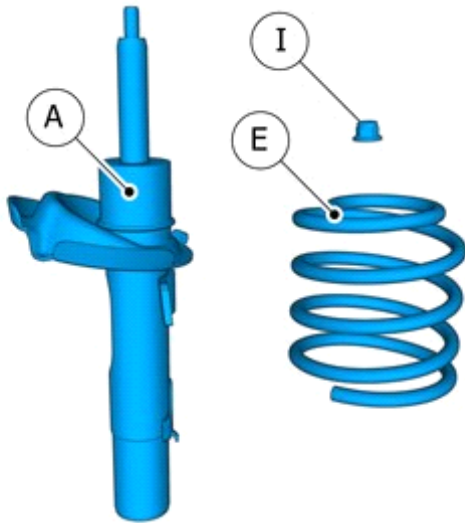
IMG-418326

Reuse existing parts.

Reinstall the removed parts in reverse order.

## Accessory installation

27



IMG-417600

### Warning!

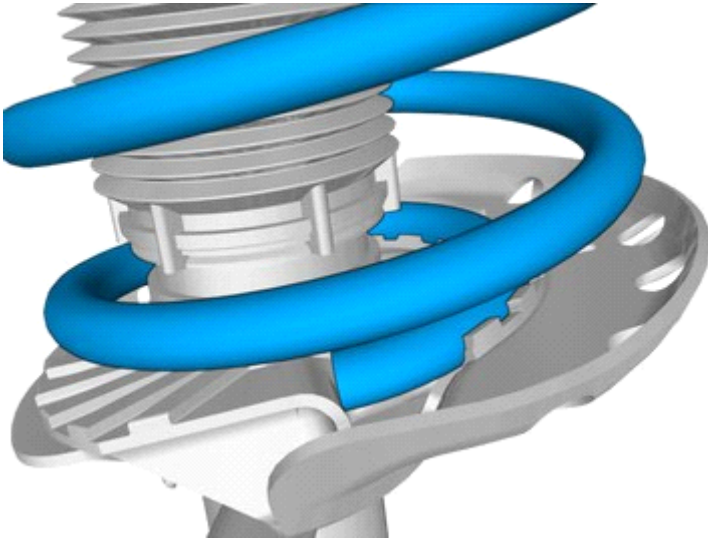
Take extra care when handling the compressed spring.



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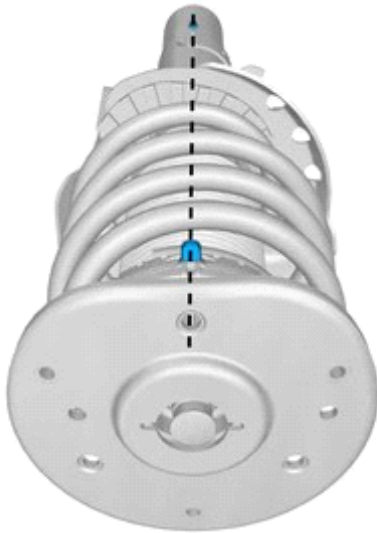
28



IMG-418284

Place the component where indicated in the graphic.

29

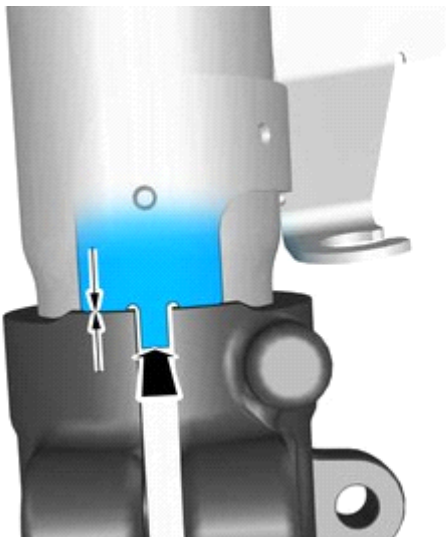


IMG-418370

**Caution!**

Make sure that the components are positioned correctly.

30



IMG-418490

**Caution!**

Make sure that the components are positioned correctly.



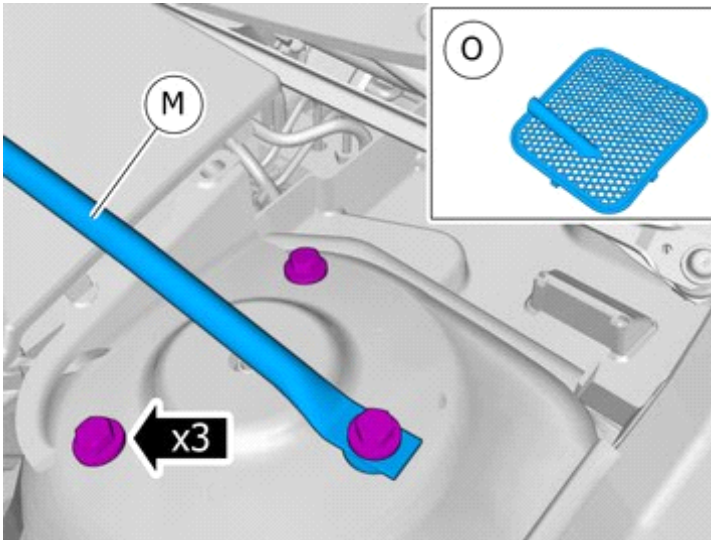
# Installation instructions, accessories

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Reinstall the removed parts in reverse order.

32



IMG-418455

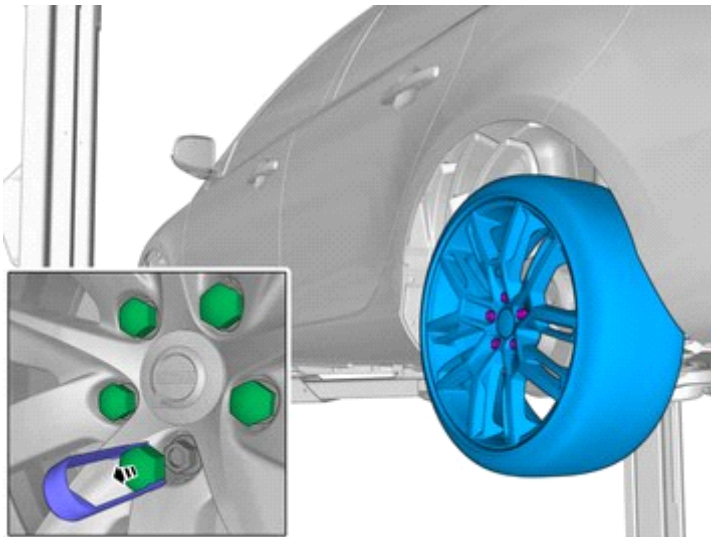
Install component that comes with the accessory kit.

Install the screws.

**Tightening torque:** Strut and spring assembly to strut and spring assembly turret , 30 Nm

## Removal

33



IMG-417646

Remove the nuts.

Remove the marked part.

**Tightening torque:** Wheel to wheel hub  
Stage 1: 20 Nm  
Stage 2: 140 Nm

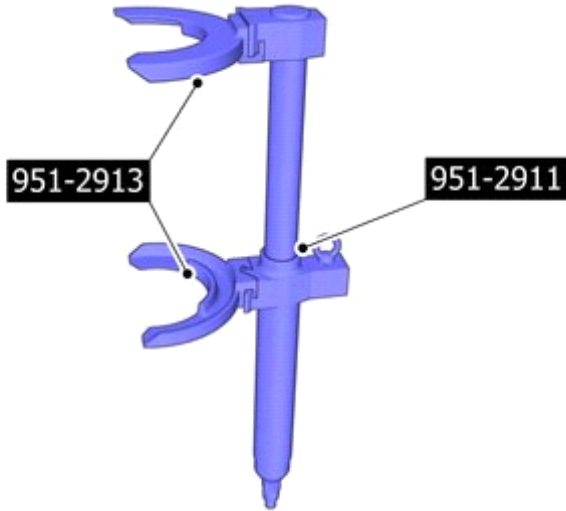




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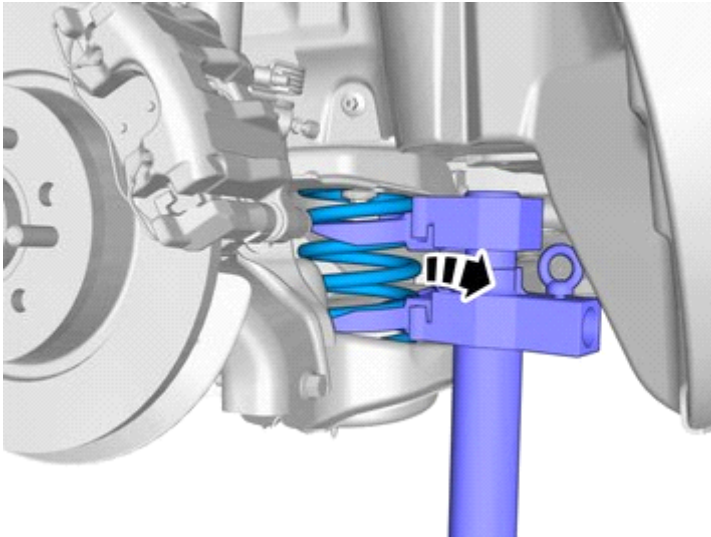


**Use special tool:** T9512911, Hydraulic piston

**Use special tool:** T9512913, Claw (size 1, for hydraulic piston 9512911)

IMG-418371

35



**Warning!**

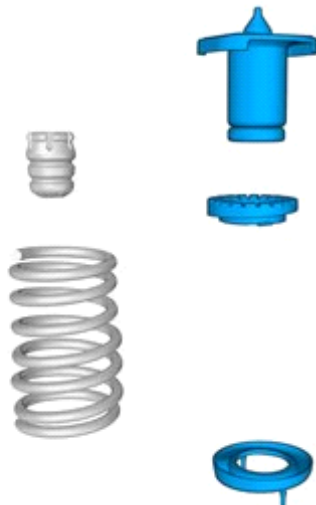
The safety wire must be installed while the spring is compressed.

Remove the marked part.

**Use special tool:** T9997477, Wire

IMG-417700

36



Reuse existing parts.

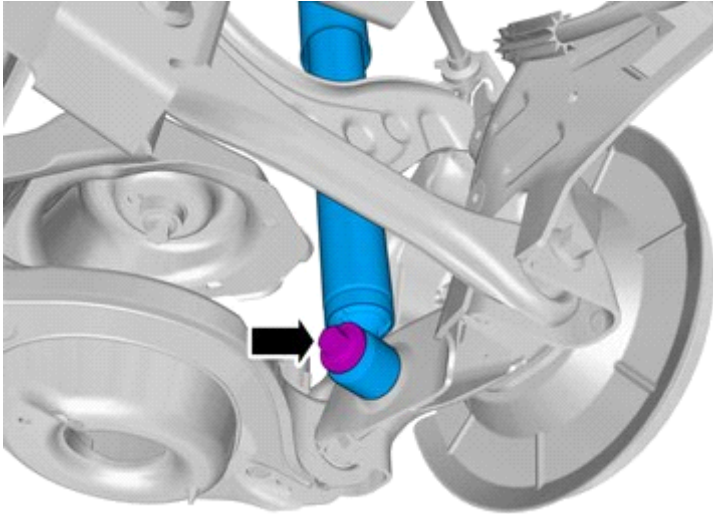
IMG-418373



# Installation instructions, accessories

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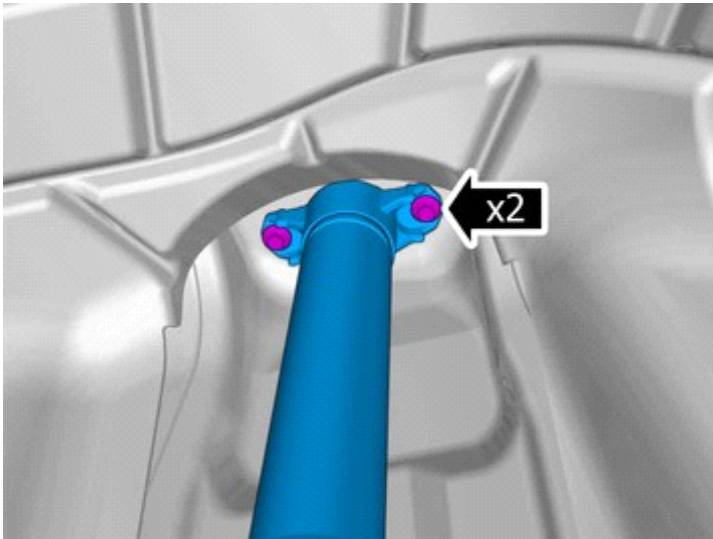
37



Remove the screw.

IMG-417706

38



Remove the screws.

Remove the marked part.

IMG-417707

39

Repeat the steps when removing on opposite side.

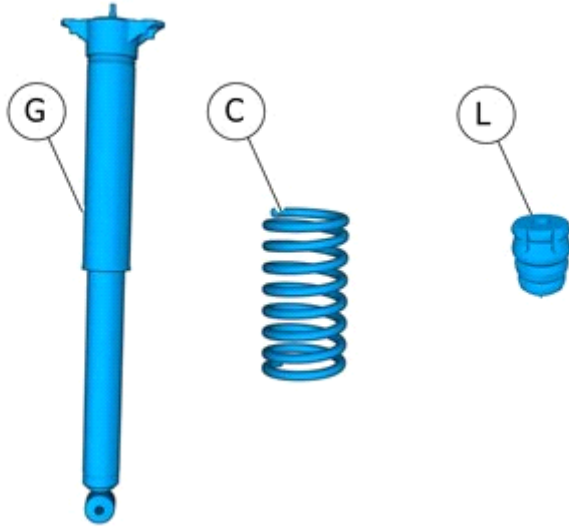
**Accessory installation**



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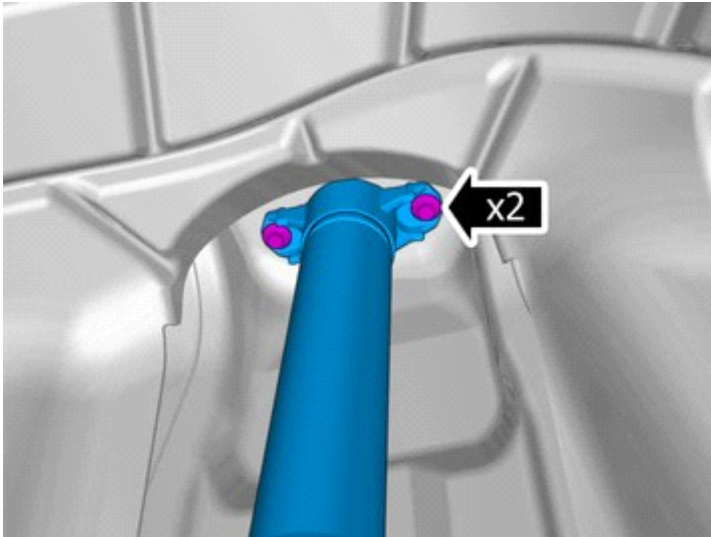


IMG-418385

### Warning!

Take extra care when handling the compressed spring.

41

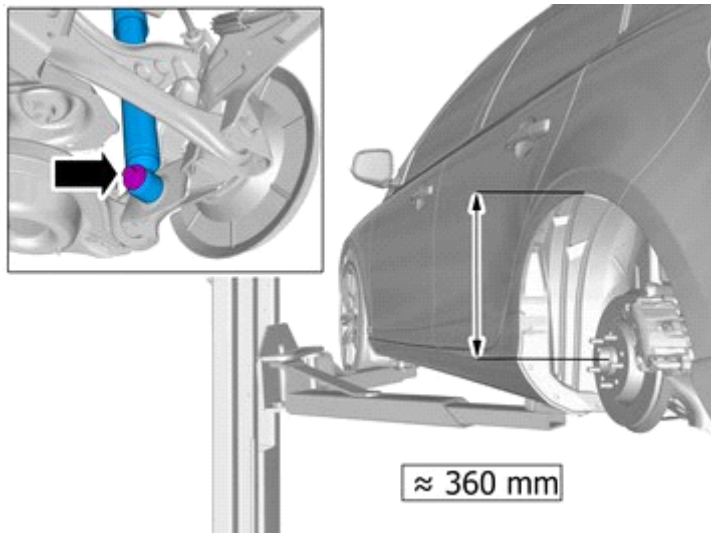


IMG-417707

Install component that comes with the accessory kit.

**Tightening torque:** M8 , 24 Nm

42



IMG-418387

Tighten the screw.

**Tightening torque:** Rear shock absorber to wheel knuckle , 175 Nm



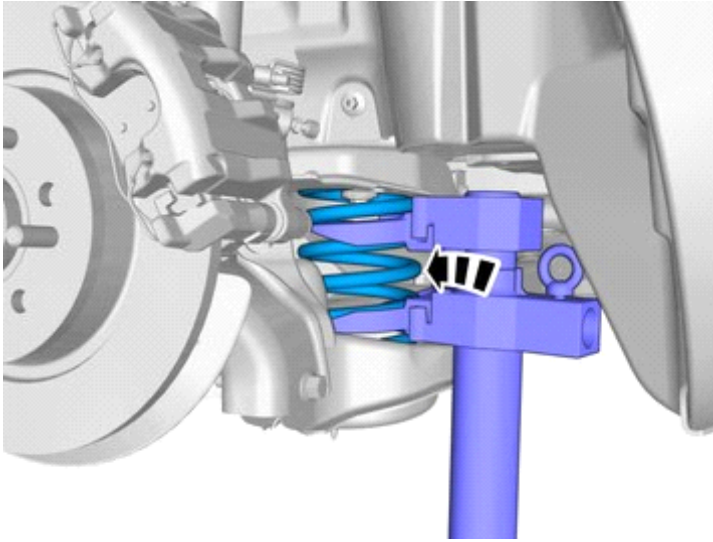
# Installation instructions, accessories

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Repeat the steps when installing accessories on opposite side.

44



IMG-417711

Install component that comes with the accessory kit.

Repeat the steps when installing accessories on opposite side.

45

Carry out wheel alignment.

46

Calibrate according to: DIAGNOSTICS/CAR  
COMMUNICATION/Advanced/HCM/Calibrating position sensor

47

In the event of any problems with the instructions or the  
accessory, contact your local Volvo dealer.