

## **33 54 000 Replacing rear spring strut (8 FRUs)**

+ **33 54 500**

Equipment trim-level variant:

0191 - Dynamic ESA<sup>OE</sup>

### Additional billing items

33 54 512 Additional work for replacing rear spring strut (with Dynamic ESA), (3 FRUs)

## Preparatory work

Removing front seat

Removing rear seat

Removing luggage carrier

Removing left engine spoiler

Removing left cover for spring strut

Removing left rear trim panel

Removing silencer cover

Remove the silencer

Remove the rear wheel

Removing right cover for spring strut

Disengaging actuator rod for ride-height sensor from swinging arm

Removing front rear-wheel cover

Disengage the engine control unit

Disengaging cable for **ESA** spring strut

## Core activity

### (-) Removing rear spring strut

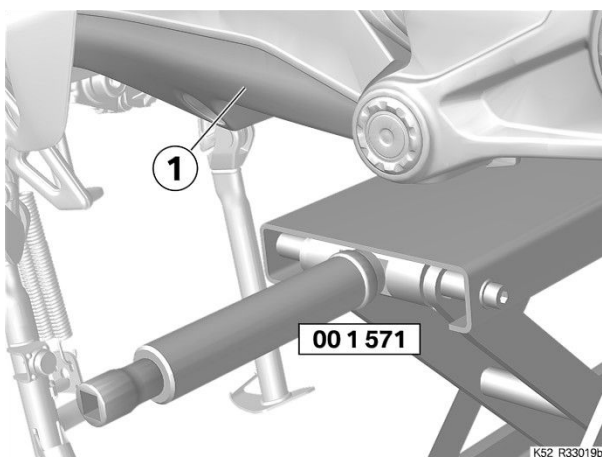
#### **ATTENTION**

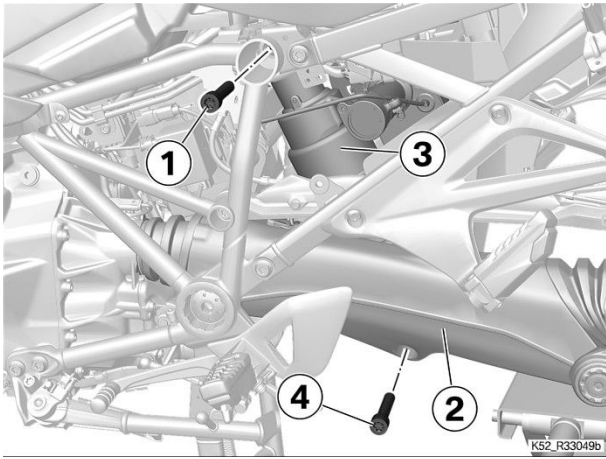
**Use of hard or sharp-edged objects in proximity to component**

Component damage

• Take care not to scratch components; cover or mask as necessary.

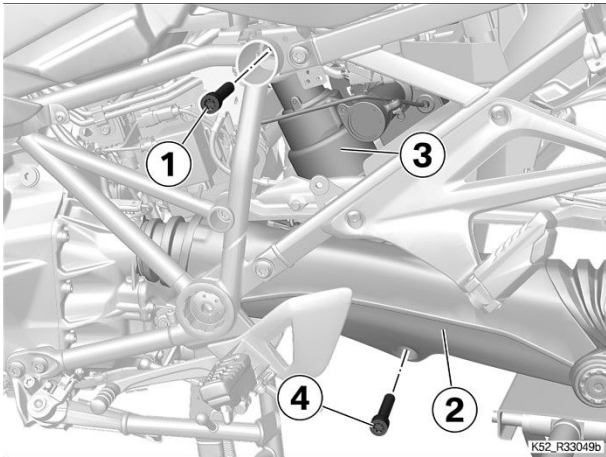
• Support swinging arm (1) with scissor-type lifter (No. 00 1 571).






Remove screw (1), if necessary lifting or lowering swinging arm (2) slightly to take the strain off spring strut (3).

- Fully lower swinging arm (2).
- Remove screw (4).
- Remove spring strut (3).



**(-) Installing rear spring strut**

- Clean the threads.
- Install spring strut (3).
- Insert screw (1).
- Slightly raise swinging arm (2).
- Install screw (4) and tighten screw (1).

 <b>Tightening torques</b>		
<b>Spring strut to frame</b>		
M12 x 1.5 x 60, Replace screw Thread-locking compound (Micro-encapsulated)	100 Nm	
<b>Spring strut to swinging arm</b>		
M12 x 75 - 10.9, Replace screw Thread-locking compound (Micro-encapsulated)	100 Nm	

- Remove scissor-type lifter .

**Follow-up work**

- Securing cable for **ESA** spring strut
- Securing engine control unit
- Securing actuator rod for ride-height sensor to swinging arm
- Installing front rear-wheel cover
- Installing right cover for spring strut
- Install the rear wheel
- Installing silencer
- Install the silencer cover
- Installing left rear trim panel
- Installing left cover for spring strut
- Installing left engine spoiler
- Installing luggage carrier
- Installing rear seat

Installing front seat  
Removing right engine spoiler  
Connecting **BMW Motorrad** diagnostic system to vehicle  
Calibrating ride-height sensor  
Disconnecting **BMW Motorrad** diagnostic system from vehicle  
Installing right engine spoiler  
Final check of work performed