



Contents:

- **Certificate** (removable) **for:**
 - BMW 1 series (F20/F21) B16 PSS10 -**
 - BMW 2 series (F22/F23) B16 PSS10 -**
 - BMW 3 series (F30/F31/F34) B16 PSS10 -**
 - BMW 4 series (F32/F33/F36) B16 PSS10 -**
 - inclusive xDrive -**
- **mounting instruction**



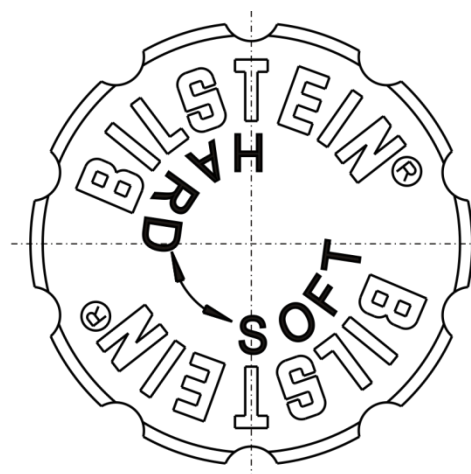
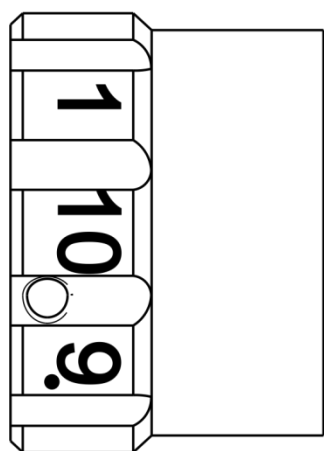
Before installation please observe the following points:

- Read all information in this manual carefully.
All suspension components are fitted and removed acc. to the manufacturer's specifications for installing and removal, if not otherwise required in these instructions.
- Check that your vehicle type is listed in the certificate as being specified for this kit.
- Check the product for all components before starting installation!
- Check that dimensions and fastening points are comparable between the original and BILSTEIN shock absorbers.
- Directional references (left, right, front, rear) are always with reference to the driving direction.
- Remove the negative battery pole.
- The tested vehicles are left- hand drive vehicles.

After installation please observe the following points:

- Set the vehicle height by adjusting spring plates and lock nuts on the new dampers. Only use the supplied spanner wrenches.
- All rubber- mounted strut/ damper attachments must not be fully tightened until AFTER the suspension system is loaded (wheels on the ground). Other mounting fasteners (for example brackets) must be securely tightened BEFORE load is placed on the suspension system.
- Because the vehicle has been lowered, freedom of movement for all wheel-/ tire- combinations must be checked.
- Connect the negative battery pole.
- After installing the suspension system, caster and camber must be checked and adjusted according to manufacturer's specifications.
- Check and reset load- dependent brake compensator and ABS system according to manufacturer's specifications.
- Check and adjust headlight setting.

All diagrams are generalized and not to scale!
brackets, etc. specific to strut are not shown!



position **1** = **comfort**

position **10** = **sport**

During the adjustment you will hear a positive „click“ at each position of the adjustment.

Instruction for the front axle

The adjusting element of the front struts is located at the bottom end of the strut.

Adjusting position must aligned with the red mark on outer tube.

Status of delivery is position **1**.

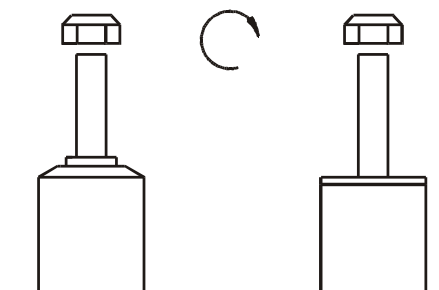
Instruction for the rear axle

Adjusting position must aligned with the red mark below adjusting knob.

Status of delivery is position **1**.

list of torques

	M8	M 10	M 12	M 14	M 16	Thread
	13	25	45	72	110	Torque Nm
	10	19	34	54	83	Torque ft lb



Do not use an impact tool to loosen or tighten fasteners due to possible damage to the product.
Self- locking nuts must only be used once!

Removal

Place vehicle on a wheel- free car hoist, lift it and remove wheels.

Vehicles equipped **with xenon headlight** the movable element of sensor for the headlamp levelling controller must removed before.



Pay attention that support wires of brake system are strain-free during removal. Stabilization by suitable means is demanded.

Remove bottom mount.

Remove top fixing nuts from support bearing.

Do not remove central nut at this time!

Remove complete strut and clamp it in an appropriate strut vice.

Using a suitable spring compressor, compress suspension spring until tension on support bearing is free to move.

Release central nut and remove original mounting parts and coil spring. Please refer to diagram to identify which parts will be replaced with BILSTEIN- supplied components.

Installation

The original dust cover must cut up to ~40 mm (see sketch).

Assemble BILSTEIN and/ or original mounting parts, as well as the new BILSTEIN spring on the BILSTEIN strut in reverse order to removal.



IMPORTANT! Spring plates must not be adjusted outside the ranges specified in the certificate!

The correct mounting position of the suspension springs can be determined by the printing on the springs; install them with the print upright.

Do not reuse original- bumper, since BILSTEIN- strut has built in bump stop.

Fit assembled BILSTEIN strut to the vehicle in reverse order to removal.

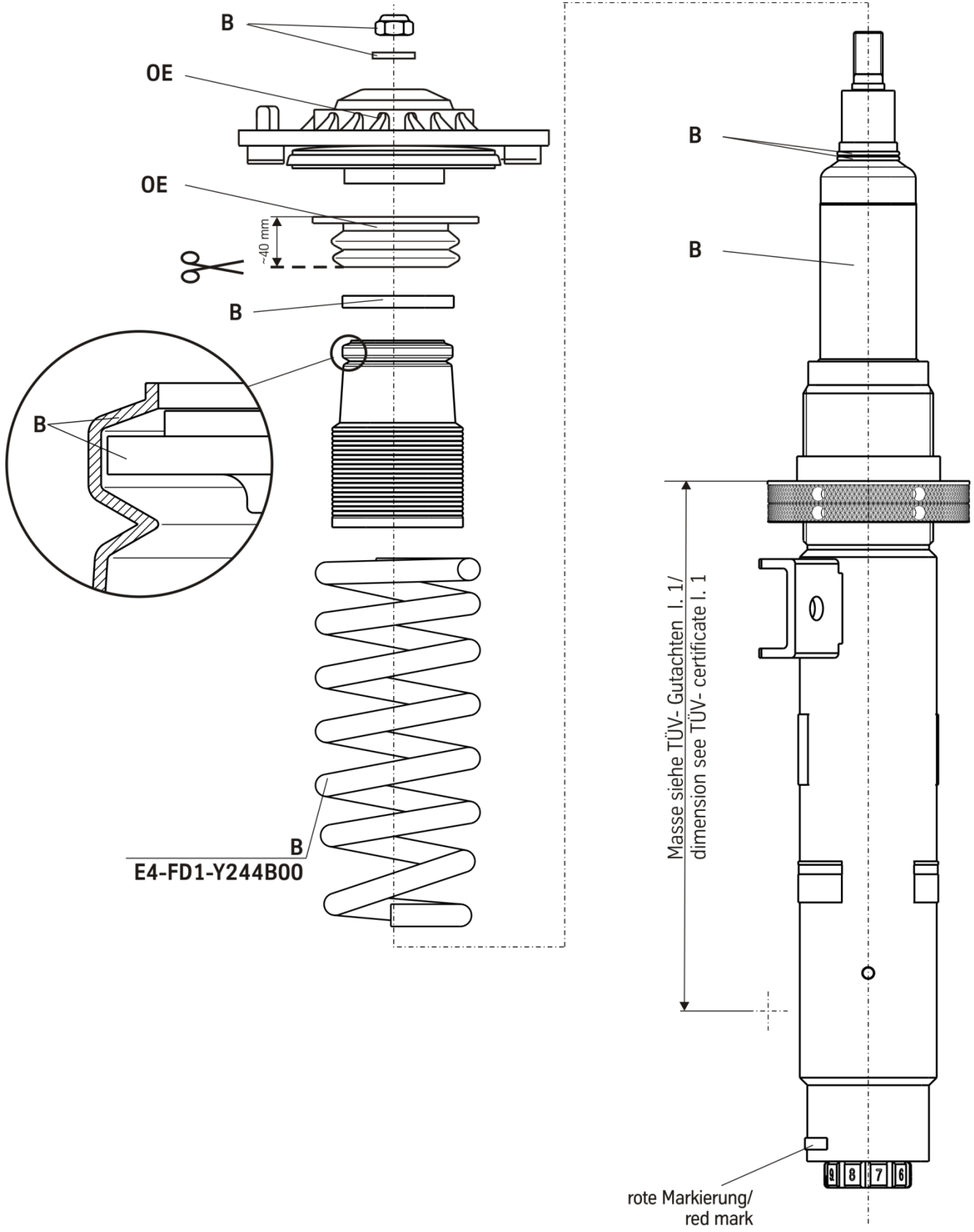


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OE= Original Equipment

B= Delivered by BILSTEIN



falsch/ wrong



richtig/ correct



mounting instruction for rear axle

Removal

Place vehicle on a wheel- free car hoist, lift it and remove wheels.



Pay attention that support wires of brake system are strain-free during removal. Stabilization by suitable means is demanded.

Remove top fixing mount and bottom fixing mount from support bearing.

Remove original shock absorber.

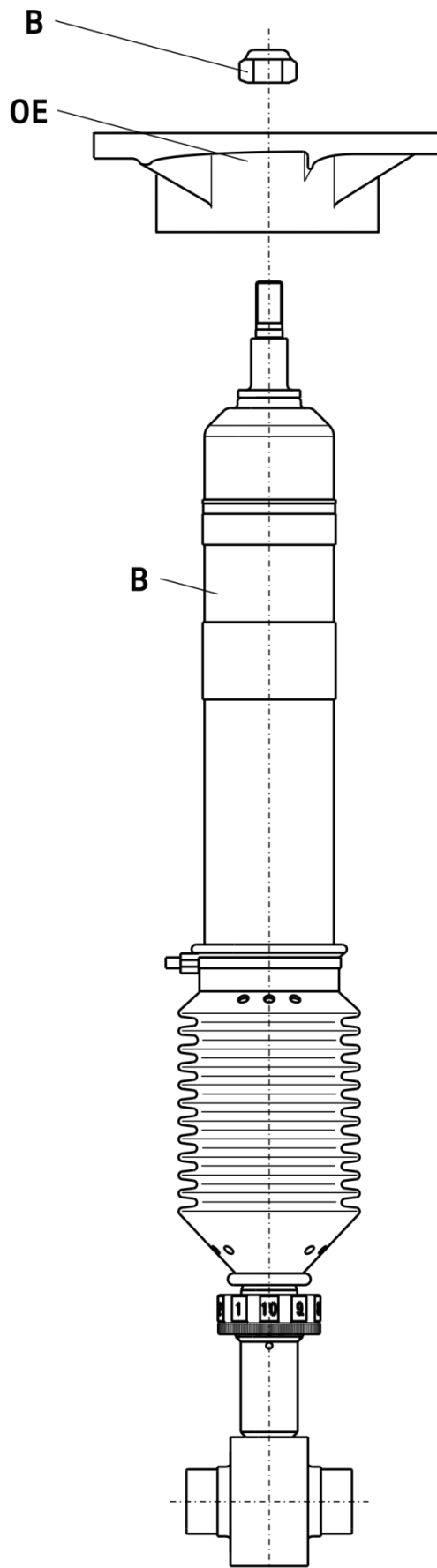
Installation

Fit BILSTEIN mounting parts on BILSTEIN shock absorber according to the sketch next page.

Fit BILSTEIN shock absorber to the vehicle in reverse order to removal.

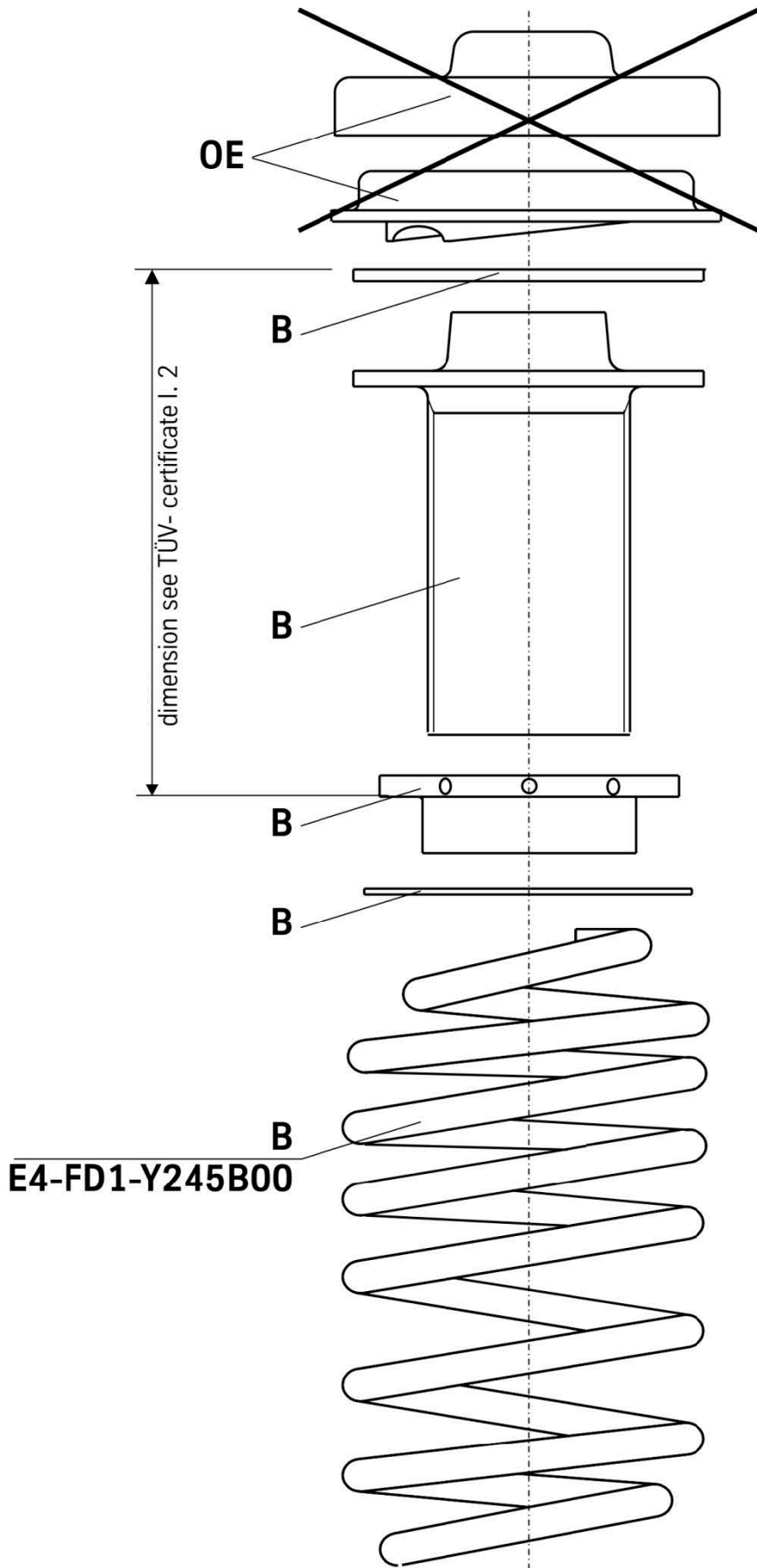
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Learn more about performance suspension parts we have.