



Contents:

- **certificate for:**
 - BMW 3er sedan G20 (G3L) XDrive BILSTEIN EVO T1 -**
 - BMW 3er touring G21 (G3K) XDrive BILSTEIN EVO T1 -**
- **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:

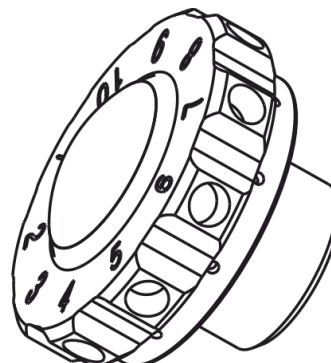
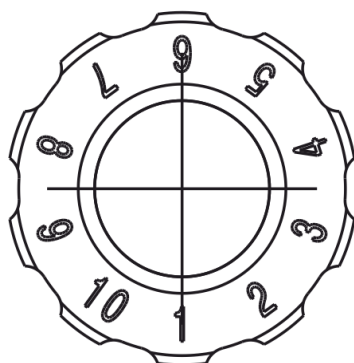
- Set the vehicle height by adjusting spring plates and locking device by using setscrews on the new dampers. Only use the supplied spanner wrenches.

- 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 as well as sensors adjustment of the driver assistance systems (for example, radar sensor and camera systems) 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!

instruction for force adjustment



position **1** = **comfort**
position **10** = **sport**

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

Instruction for the rear axle

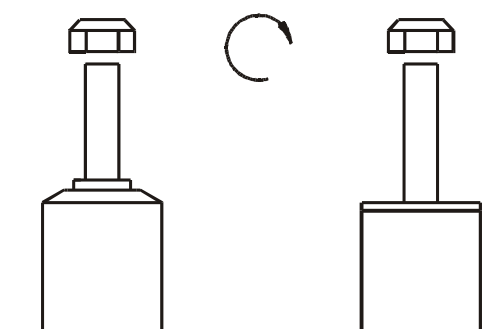
The adjusting element of the shock absorber is located at the bottom edge of the shock.

Adjusting position must aligned with the red mark on bottom fixing mount.

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!

fixing high adjustment

Install the high adjustment as it is shown in sketch for the respective axles. Fix the spring plate with the set screw (**1**) by using hex key (**2**) delivered by BILSTEIN.

Torque 7 +1 Nm

mounting instruction for front axle left/ right

Removal of strut

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!

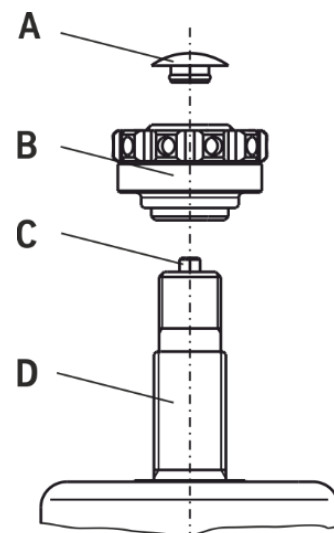
Remove complete strut and clamp it in an appropriate strut vice.

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.

EVO T1- 10 step- pin adjustment

The adjustment unit must be deinstall before the BILSTEIN strut installation can be completed in reverse sequence as before with BILSTEIN and/ or original mounting parts.





Removal Adjustment Unit EVO T1 (see sketch on previous page)

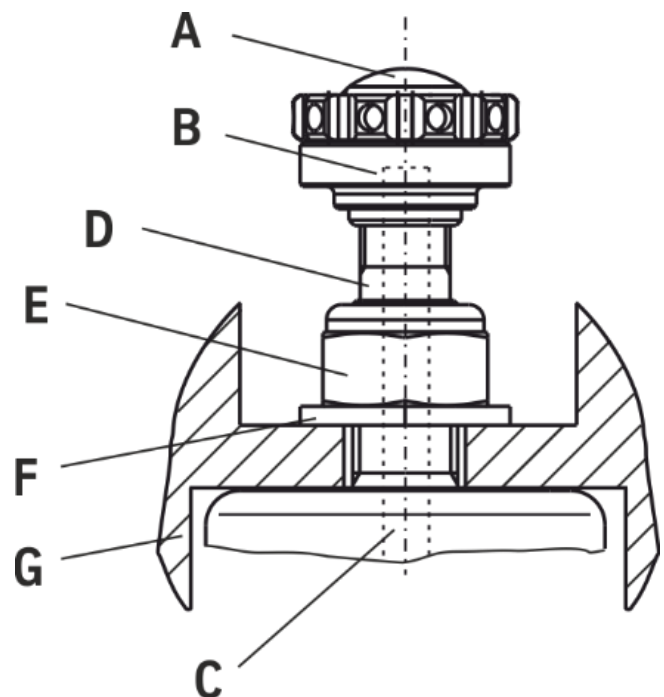
To remove the adjusting head (B)
the plastic cap (A) must loose.

Remove adjusting rod (C).

Installation

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

Installation Adjustment Unit EVO T1



Fit piston rod nut (E) and disc (F)
to BILSTEIN strut.

Insert adjusting rod (C) to piston rod (D)
and screw adjusting head (B) tight.

tightening torque: 11 ft lb +1,5 ft lb

Press the plastic cap (A) back into
the adjusting head (B).

**Do not change adjusting head
and adjusting rod from left strut
to right strut and vice versa.**



The adjusting head should move easily and with distinct “clicks” at each adjustment position. If not, disassemble the adjustment unit and reassemble acc. to the instruction.

A hole (min. $\varnothing 35\text{mm}$) must be drilled in the original cover.



before



after



fitted

After the sport setting has been set, place a color mark on the plastic cap at level “10”.

Installation of strut

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.

Original- bumper and dust cover must reuse.

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

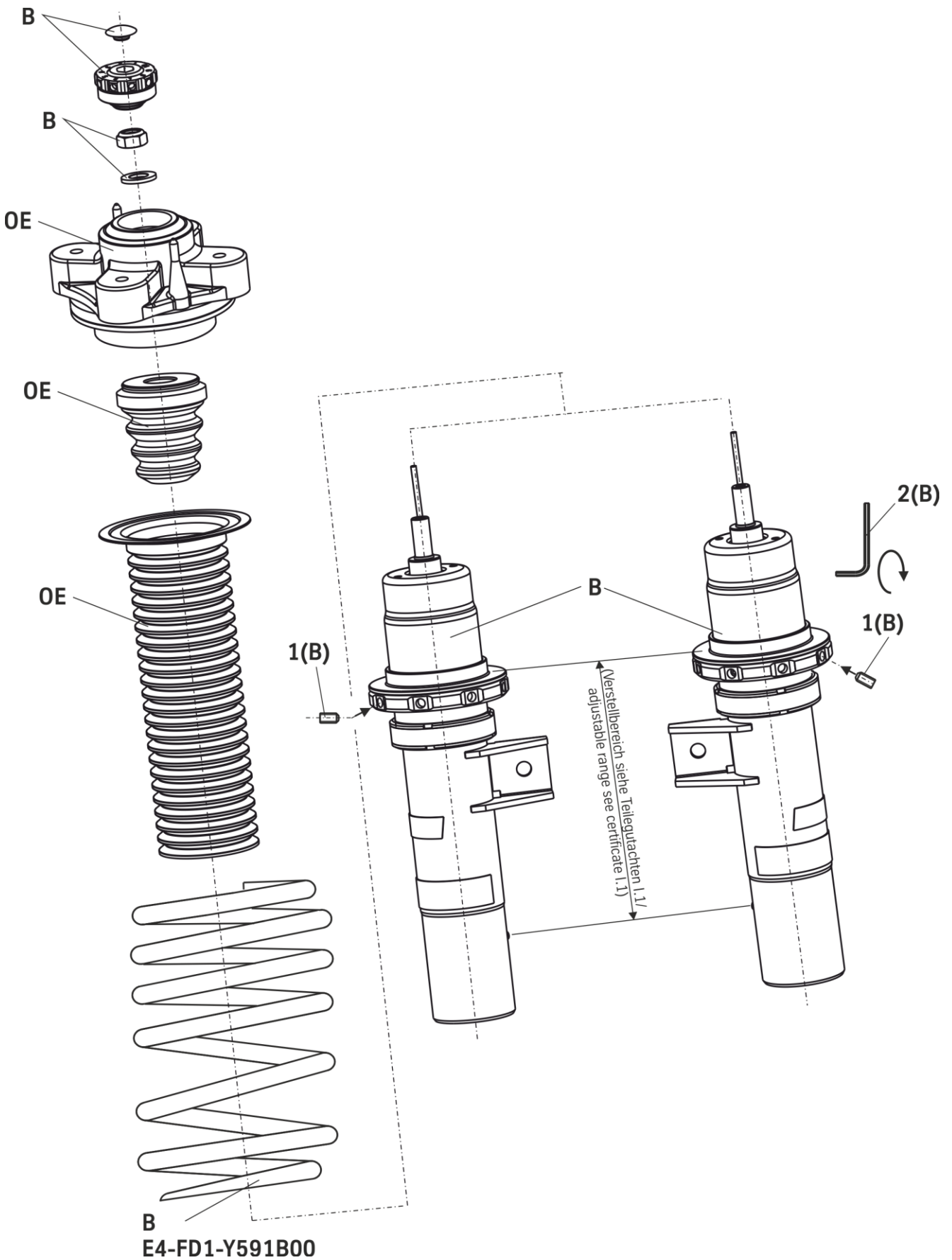


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BMW 3er sedan G20 (G3L) XDrive BILSTEIN EVO T1 -
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OE= Original Equipment

B= Delivered by BILSTEIN





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 and bottom fixing mount from support bearing.

Remove shock absorber and original mounting parts.

Installing

Assemble BILSTEIN and/ or original mounting parts on BILSTEIN shock absorber in reverse order to removal.

Fix the bellow up to 265mm +5mm.

Fix holder 1 (B) with cable strap 2 (B) to the bellow.

Insert cable strap 3 (B) into the holder 1 (B).

Fix the cable (OE) with cable strap 3 (B) to the holder 1 (B).

Ensure that cable is unstressed when the vehicle is lifted on a wheel-free car hoist.

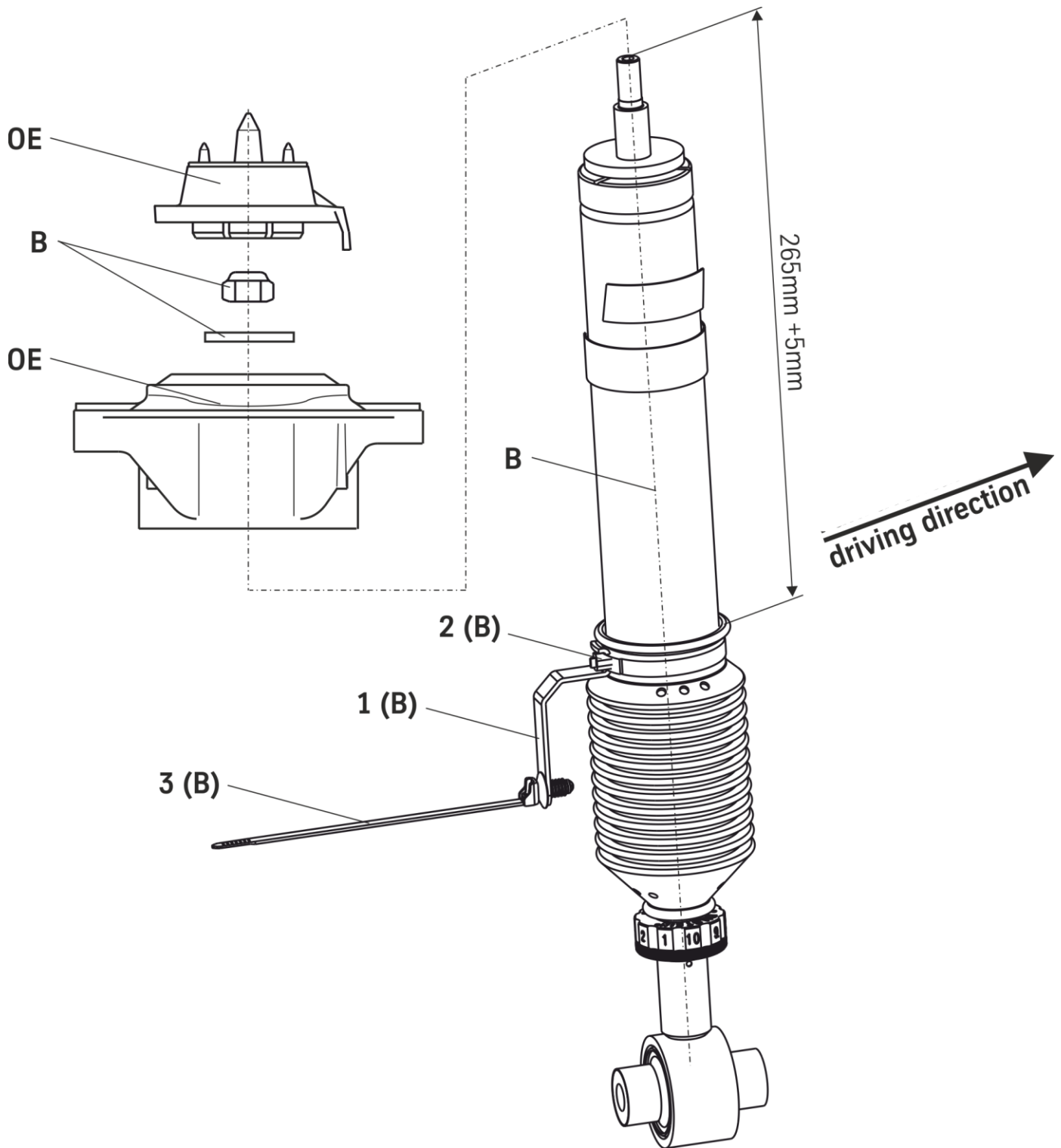
Spring plates must not be adjusted outside the ranges specified in the certificate!

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

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

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adjustment assembly rear axle

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