

# E4-WM5-Y180A03 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 fitting and removing, if not otherwise required in these instructions.
- 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.
- The test vehicles are left- hand drive cars.

## **After installation please observe the following points:**

- 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 aim.
- Because the vehicle has been lowered, freedom of movement for all wheel-/ tire- combinations must be checked.
- 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 tight-ened BEFORE load is placed on the suspension system.

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

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1. BILSTEIN shock absorber with original spring
2. BILSTEIN shock absorber with BILSTEIN spring
3. Original shock absorber with BILSTEIN spring

## Removal

Place vehicle on a chassis hoist,  
lift it and remove wheels.

Disconnect the negative battery pole.



***The lower control arm must be supported by suitable means!***

Remove bottom mount.

If necessary release brake hose/ brake hose holder/  
stabilizer/ ABS- hose and/ or swing- support at strut.  
At support suspension arm, screw on top,  
inside must be released a little.

Remove top fixing nuts from support bearing.  
Do not remove center nut at this time!

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

Using a suitable spring compressor, compress suspension  
spring until tension on support bearing is released.

Fit original/ BILSTEIN mounting parts on strut in  
reverse sequence to removal, except for bump stop,  
since BILSTEIN- strut has built in bump stop.

Please refer to diagram to identify which parts  
will be replaced with BILSTEIN- supplied components also.

If there is no dust cover delivered by BILSTEIN,  
the original one is to be reused.

**ATTENTION:** Some models are equipped with  
plastic- dustcover cap also. This cap **do not** reuse!

## Install

Assemble BILSTEIN and/ or original mounting parts, as  
well as the new BILSTEIN spring, if been used, on the  
BILSTEIN strut in reverse sequence of removal.



***Before releasing the spring, care is to be taken to ensure that the spring rest in the cutouts of top and bottom spring plate!***

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

Fit assembled BILSTEIN strut to  
the vehicle in reverse sequence of removal.

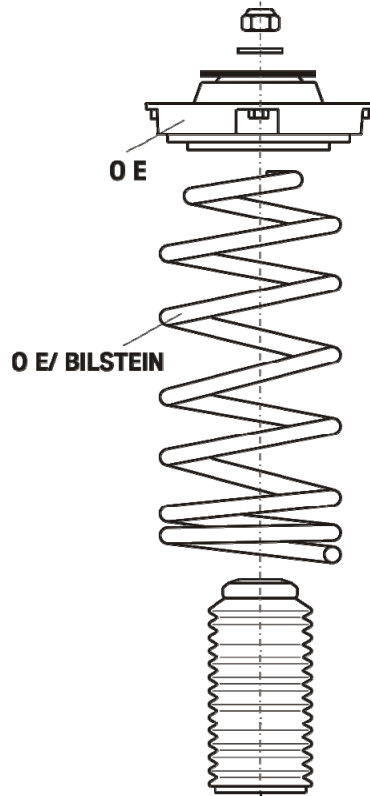
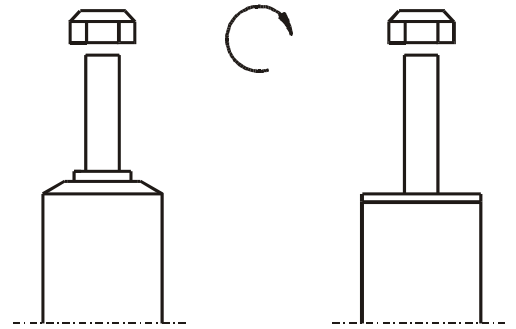
Connect the negative battery pole again.

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## - 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!**

