

# E4-WM5-Y040A00

## MOUNTING INSTRUCTIONS



### Remove

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



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

Remove bottom mount.

Remove top fixing nuts from support bearing. Do not remove center nut at this time! (fig. 1)

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. Please refer to diagram to identify which parts will be replaced with BILSTEIN supplied components. When thread of piston rod is M10- use nuts (3) from delivered mounting parts.

### Install

Assemble BILSTEIN and/ or original mounting parts, as well as the new BILSTEIN spring 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! When fitting the shock absorber (17) make sure, that the bores (21) of the spring plate (15) are in line with the fitted sleeve (18).***

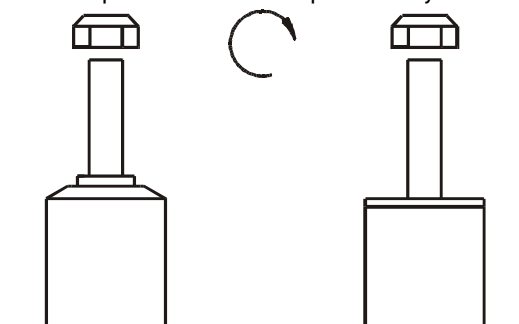
The correct mounting position of the suspension springs can be determined by the printing on the springs; install them with the print upright.

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

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.

### - 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



# E4-WM5-Y040A00

## MOUNTING INSTRUCTIONS



DO NOT USE IMPACT TOOLS FOR LOOSENING OR TIGHTENING FASTENERS, BECAUSE THIS MAY DESTROY THE THREADS. SELF-LOCKING NUTS MUST ONLY BE **USED ONCE!**

1. nut torque 12 ft lb \*B
2. plate
3. nut (\*B only M10x1,5)
4. plate
5. upper support bearing
6. plate
7. bottom support bearing
8. sleeve \*B
9. upper spring plate
10. ring \*B
11. rubber pad
12. helical sprin
13. bump stop
14. dust cover
15. bottom spring plate \*B
16. Ring \*B
17. BILSTEIN- shock absorber
18. fitted sleeve
19. torque 17,5 ft lb
20. circlip \*B
21. bore
22. ends of spring
23. wheel

\*B = mounting parts delivered by BILSTEIN

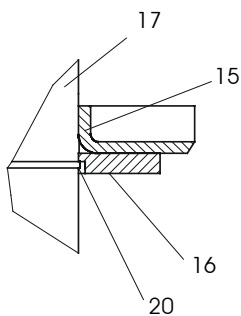


Abb./fig.2

**ATTENTION**  
When fitting the supporting ring (16) care must be taken to ensure that the circlip (20) is seated correctly!

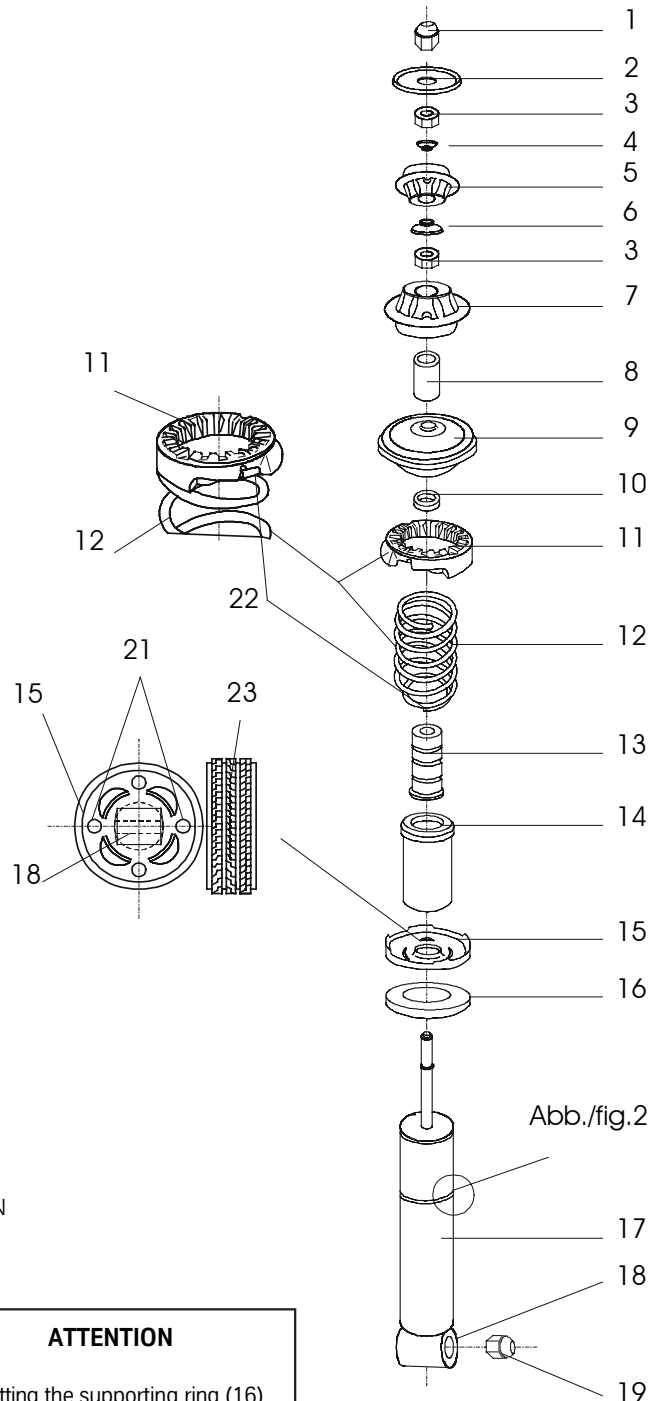


Abb./fig.1

# E4-WM5-Y180A00 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!

# E4-WM5-Y180A00 MOUNTING INSTRUCTION



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 compress and compress  
suspension spring until tension on support  
bearing is released.

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

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

## Install

Fit original/ BILSTEIN mounting parts on BILSTEIN-  
strut in reverse sequence to removal, except for dust  
cover and bump stop, since BILSTEIN- strut has built  
in bump stop. If there is no dust cover delivered by  
BILSTEIN, the original one is to be reused.



***Before releasing the spring, care is to be taken to ensure that the spring rest in the cut outs 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.

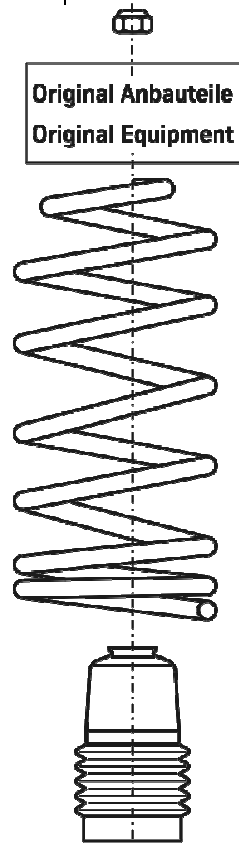
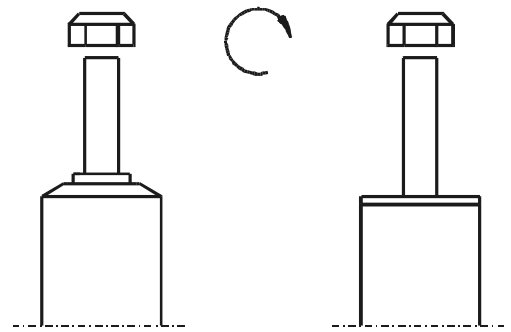
Connect the negative battery pole again.

# E4-WM5-Y180A00 MOUNTING INSTRUCTION



## 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



Original Anbauteile  
Original Equipment

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!

