

E4-WM5-Y217A00

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 the product for all components before starting installation!
- Check that dimensions and fastening points are comparable between the original and Bilstein shock absorbers.
- Remove the negative battery pole.
- Directional references (left, right, front, rear) are always with reference to the driving direction.
- The tested vehicles are left- hand drive vehicles.

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 tightened BEFORE load is placed on the suspension system.
- Connect the negative battery pole.

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

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MOUNTING INSTRUCTION



STANDARD SHOCK-ABSORBER

(SA*, AA*, SS*, SX*, SG*)

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

Remove

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



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

Remove bottom mount.

Remove top fixing mount.

Remove shock absorber from vehicle.

Remove original mounting parts.

Installation

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

Fit assembled shock absorber to the vehicle
in reverse order as removal. For to guarantee
correct fitting of mounting parts, it is necessary to
compare the Type- No, printed on damper- label
with the charts on the following pages.

All self- locking nuts must be replaced.
Tightening torques see list below.

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MOUNTING INSTRUCTION



B SPRING CARRIED SHOCK ABSORBER

(FSA*, FAA*, FSS*, FSX*, FSG*)

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

Remove

Place vehicle on a wheel-free car 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 centre nut at this time!

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

Compress suspension spring until ten-
sion on support bearing is free to move.

Release centre nut and remove original
mounting parts and coil spring. Please check,
which original mounting parts will be renewed
with mounting parts supplied by BILSTEIN.

Installation

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



***Before releasing the spring, care is to
be taken to ensure that the ends of the
spring rest in the cut outs of the top
and bottom spring plates.***

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 shock absorber to the vehicle in
reverse order as removal. For to guarantee
correct fitting of mounting parts, it is necessary
to compare the Type- No, printed on damper-
label with the charts on the following pages.

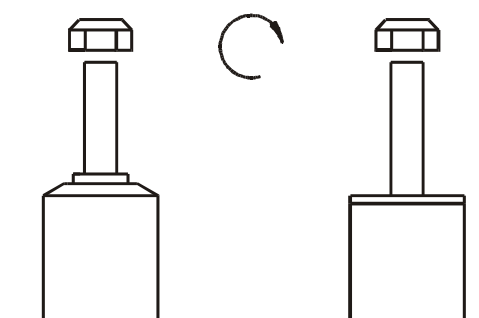
All self- locking nuts must be replaced.
Tightening torques see list on page 2.

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MOUNTING INSTRUCTION



list of torques						
	M 8	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!

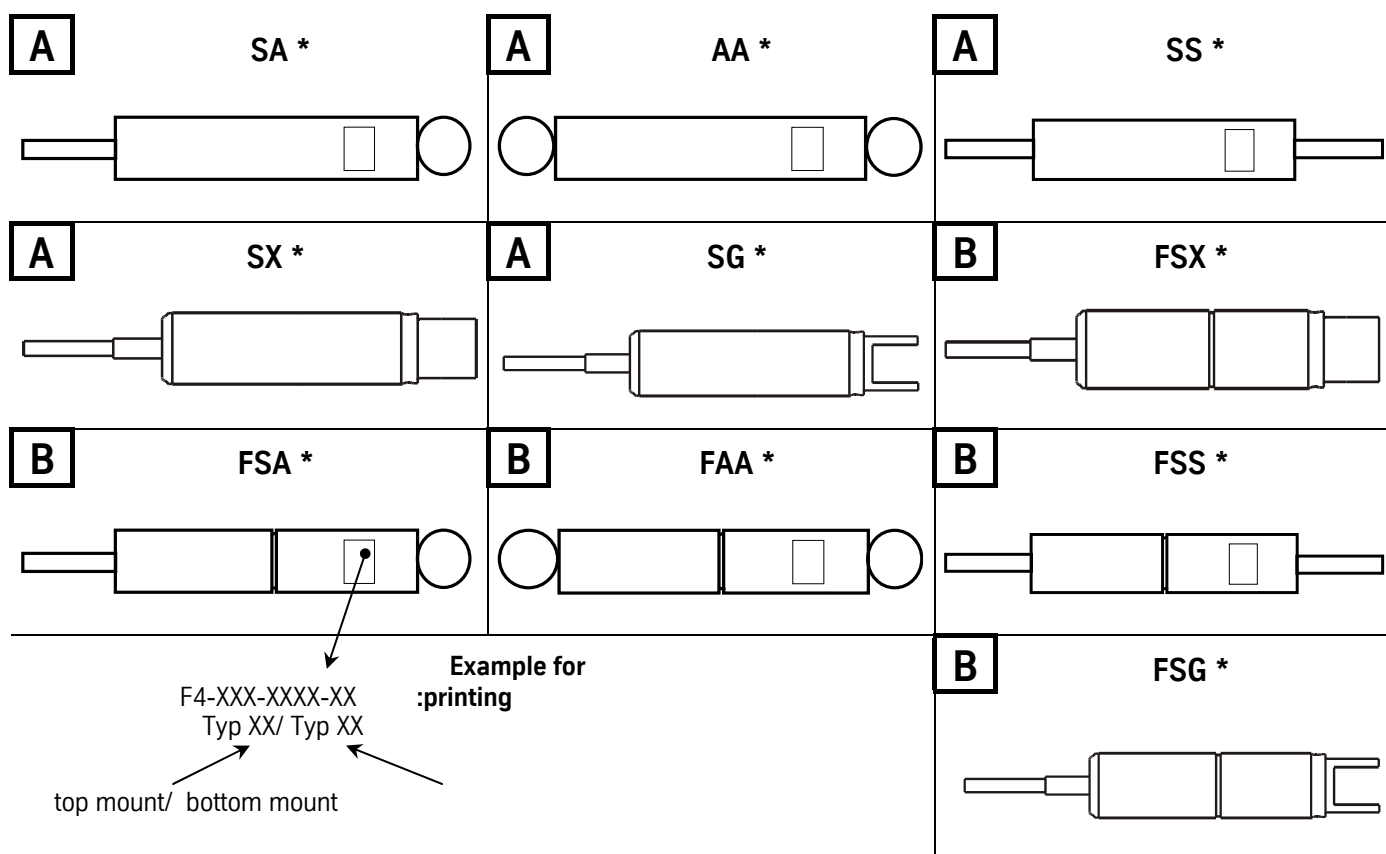
All rubber- mounted strut/ damper attachments must not be fully tightened until AFTER the suspension system is loaded (wheels on the ground). Other mounting fasteners (for example brackets) must be securely tightened BEFORE load is placed on the suspension system.

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MOUNTING INSTRUCTION

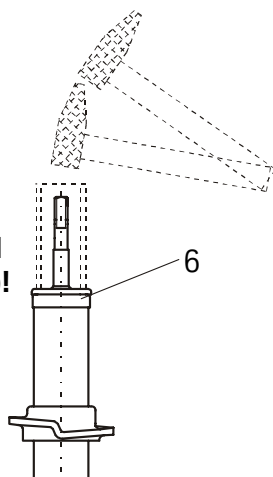


TYPES OF SHOCK ABSORBER



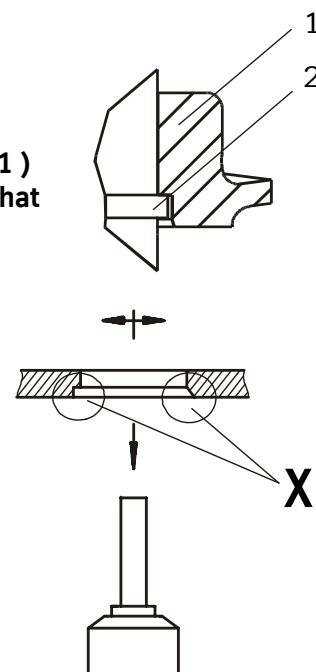
If no dust cover is delivered by BILSTEIN, original dust cover must be reused or replaced.

Do not damage the piston rod when knocking a top cap (6)!



When fitting the spring plate (1) care must be taken to ensure that the circlip ring (2) is seated correctly!

X = Fitting of plates with chamfer (if exist)



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Typ1 	Typ2 	Typ3 	Typ4 	Typ5
Typ6 	Typ7 	Typ8 	Typ9 	Typ10
Typ11 	Typ12 	Typ13 	Typ14 	Typ15
Typ16 	Typ17 	Typ18 	Typ19 	Typ20
Typ21 	Typ22 	Typ23 	Typ24 	Typ25

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Typ26 	Typ27 	Typ28 	Typ29 	Typ30
Typ31 	Typ32 	Typ33 	Typ34 Slotted nut torque to min. 48 Nm (35 lb/ft) and insert cotter pin Damper body Vehicle	
Typ36 	Typ37 	Typ38 	Typ39 	Typ40
Typ41 	Typ42 	Typ43 		Typ44 DC "G"- Typ Bei Fahrzeugen mit Kurzchassis entfallen die beiden Scheiben ø 22/ 5 dick!