



Contents:

- **Certificate** (removable) **for:**
 - MAZDA MX5 (ND) B14** -
 - MAZDA MX5 (ND) B16 PSS10** -
- **mounting instruction**



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**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 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.

- The test vehicles are left- hand drive cars.

- Disconnect the negative battery pole.

**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.

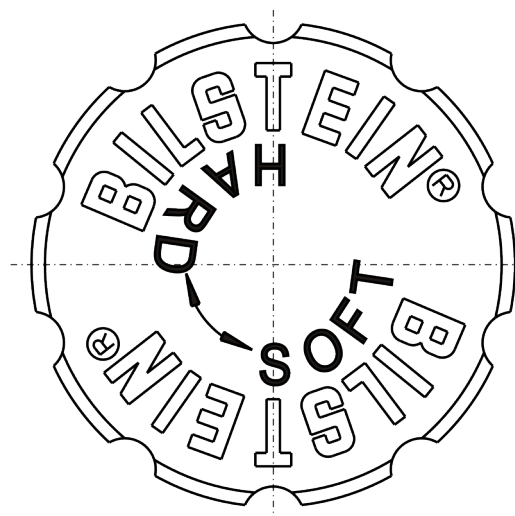
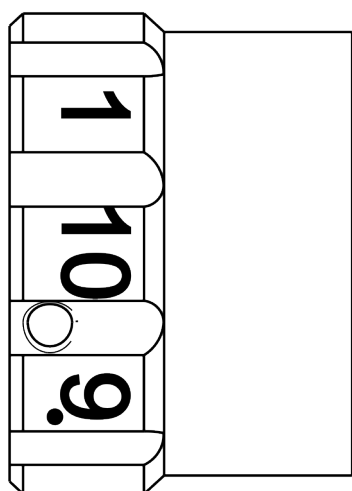
- After installing the suspension system, caster and camber must be checked and adjusted according to manufacturer's specifications.
Check and reset load- dependent brake compensator and ABS system according to manufacturer's specifications.
Check and adjust headlight setting.

- Because the vehicle has been lowered, Ground clearance 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 again.

- 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 and rear axle

Status of delivery is position **1**.

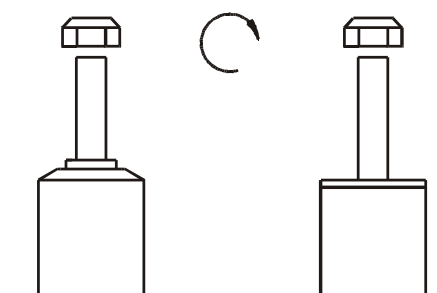
The adjusting element at front axle is located at the bottom edge of the strut, at rear axle on top.

Position **1** must aligned with the red mark.

Take care that the adjustment position is the same on both sides of vehicle (left/ right).

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!

mounting instruction for front axles B14/ B16 PSS10 and rear axles B14

Removal

Place vehicle on a chassis 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 centre 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 centre 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



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.

Removal shock absorber

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

Vehicles equipped with xenon headlight the 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 mounting.

Remove top fixing nuts from support bearing.

Do not remove central nuts at this time!

Remove complete shock absorber 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.

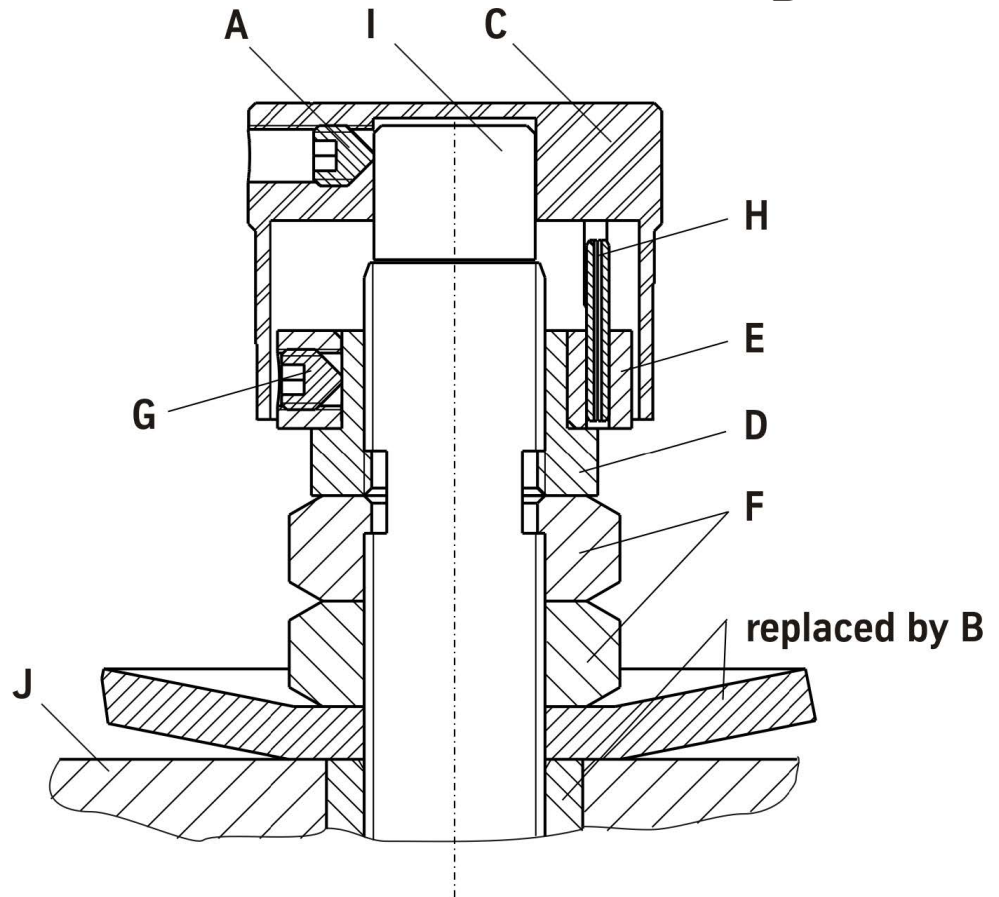
Release central nut and remove original mounting parts and coil spring. Please refer to diagram to identify which parts will be replaced with BILSTEIN- supplied components.

PSS10- 10 step- pin adjustment

The adjustment unit must be deinstall before the shock absorber installation can be completed in reverse order to before with BILSTEIN and/ or original mounting parts.

OE = Original Equipment

- A**- Set screw
- C**- Adjusting head
- D**- 1 lock nut M12x 1
- E**- end stop disc
- F** lock nut M12x 1
- G** set screw
- H** end stop pin
- I** Adjusting screw
- J** OE Support bearing



position **1** = **comfort**
 (counter-clockwise direction)
 position **10** = **sport**
 (clockwise direction)

Note
 Status of delivery is position **10**.



Removal Adjustment Unit PSS10

(see previous sketch)

To remove the adjusting head (C) the set screw (A) must loose.

Remove end stop disc (E) together with lock nut (D). Remove nuts (F).

Now remove all original mounting parts and fit BILSTEIN and/ or original mounting parts in reverse order to removal.

Installation Adjustment Unit PSS10

For fitting support bearing on shock absorber please choose flat fork spanner!

After installing support bearing (J) tighten nuts (F) with plate (B) to block. Tighten lock nut (D).

Pins (H) are end stops.

Place the adjusting head (C) flat on the adjusting screw (I) and turn it clockwise to end stop.

Fix the adjusting head (C) with set screw (A).

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.

Installation shock absorber

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!

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

The cable harness above the adjustment must be protected against damages by using appropriate aids.

OE = Original Equipment

B = Delivered by BILSTEIN

