



**Smart Fortwo B14)**



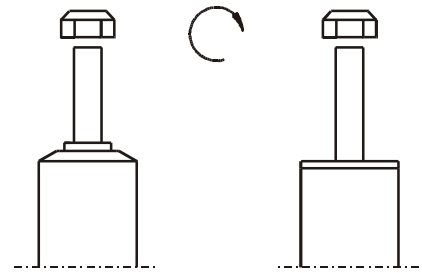
**Before installation please observe  
the following points:**

- 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 your vehicle type is listed in the certificate as being released 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.
- Remove the negative battery pole.
- 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:**

- 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 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!

	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 impact tools for loosening or tightening fasteners, because this may destroy the threads. Self- locking nuts must only be used once!**

## 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 be removed before.



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

Remove bottom mount.

Remove top fixing 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 released.

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.

## Installing

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

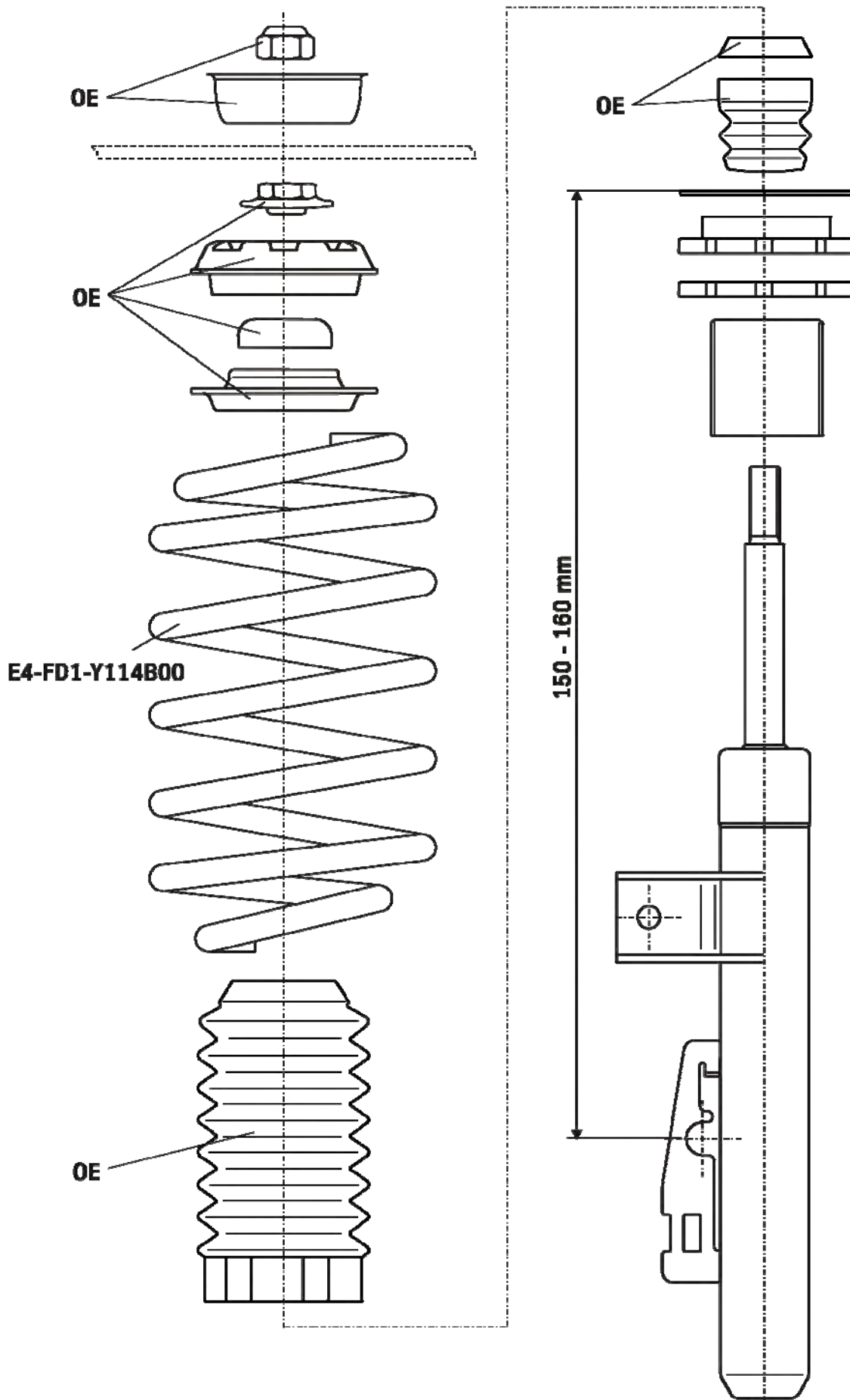


***IMPORTANT! Spring plates must not be adjusted outside the ranges specified below!***

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 and original dust-cover, since BILSTEIN- strut has built in bump stop.

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



## Removal

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

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

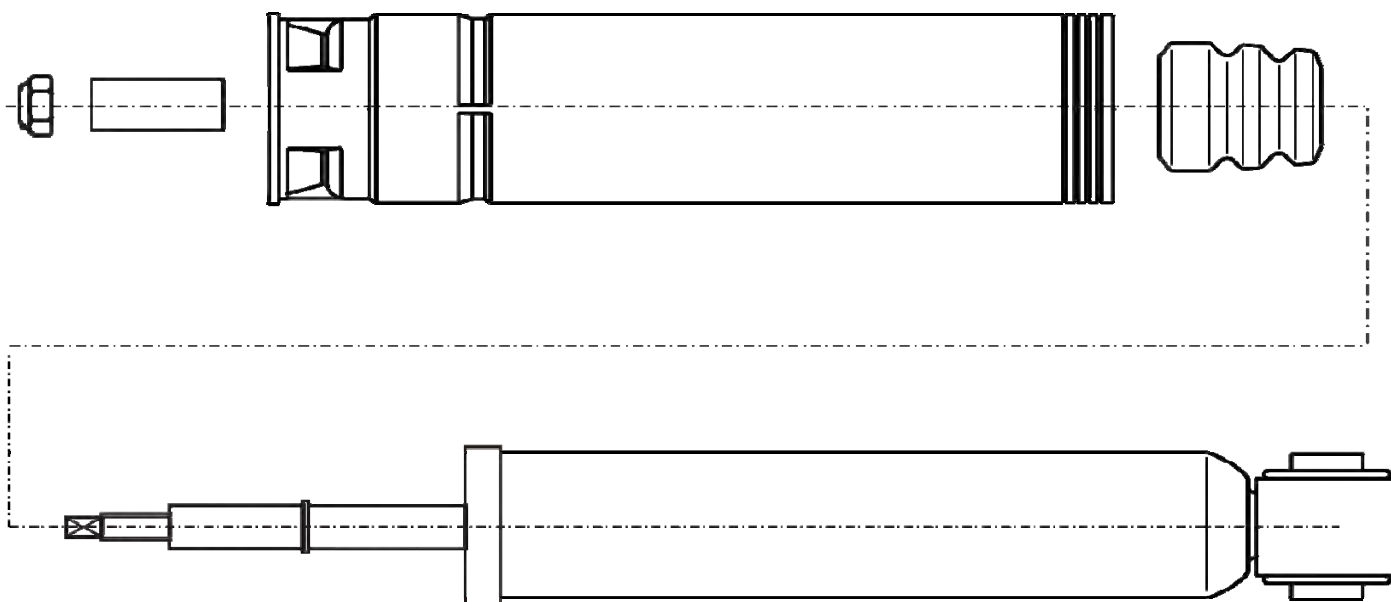
Remove top and bottom fixing mount from support bearing.

Remove original shock absorber.

## Installing

Fit BILSTEIN mounting parts on BILSTEIN shock absorber according to the sketch below.

Fit BILSTEIN shock absorber to the vehicle in reverse sequence of removal.



- mounting instruction for rear axle height adjustment

