

Fitting information Mercedes E-class W211 AIRmatic (not ABC)

General information:

- Do not store air springs below -15°C or above 50°C.
- Disassembly and installation are only to be performed by fully qualified personnel at a specialist garage.
- **Car manufacturer special tools and equipment is required!**
- Depressurized air spring modules mustn't be exposed to mechanical pressure.
- Check air pipes and cables – renew if damaged.
- Work when dismantling and fitting on the rear axle must be performed at the same time on both sides.
- CAUTION: Damage to vehicle and air suspension module can occur if work is carried out in a manner other than that specified in the instructions or in a different sequence.

Dismantling the rear air spring



Ignition must remain switched off during the work on the air spring module.

- Raise vehicle.



Use a chassis hoist and make certain that the raised vehicle is securely attached to the hoist to prevent the vehicle from slipping, falling, or moving during the installation process.

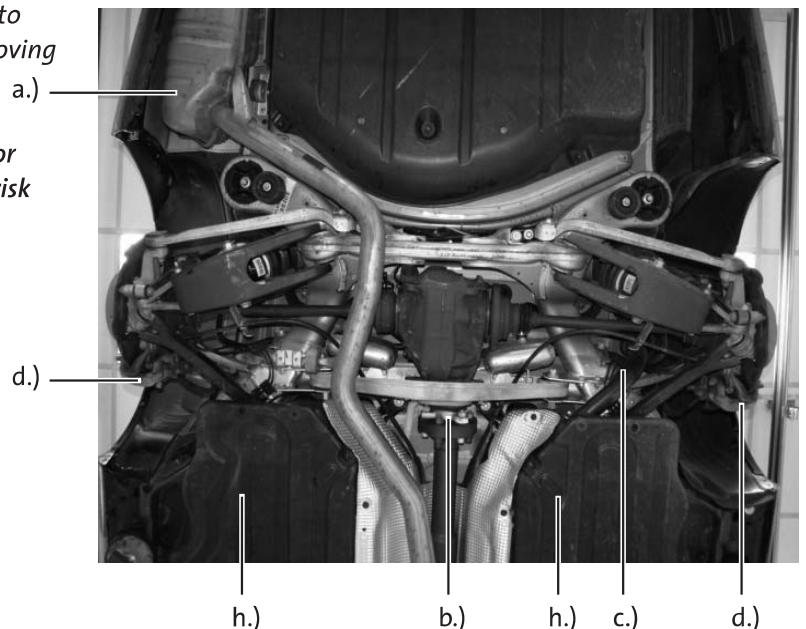
If you choose to install any BILSTEIN product without the necessary special tools, expertise or chassis hoist, you may subject yourself to the risk of serious bodily injury or death.

- Remove wheels.
- Deflate air spring completely by using diagnostic software.
- Remove inner fenders.
- Remove all electric plug connections ①.

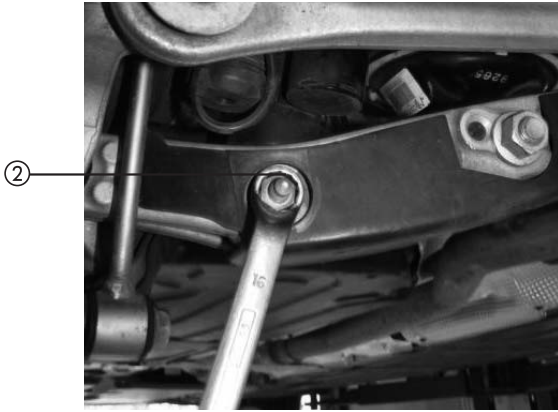


- Prepare rear axle dismantling:
 - a.) Remove exhaust muffler.
 - b.) Disconnect drive shaft from the differential.
 - c.) Dismantle tank connection hose (Attention: drain off fuel).
 - d.) Remove brake caliper.
 - e.) Disconnect main compressed air line (middle) from distributor (axle centre).
- Seal off line with plugs.
- g.) Disconnect main electric plug connection.
- h.) Remove both underbody panels.

- Unhook level sensor linkage (axle centre).
- Dismantle stabilizer.



- Disconnect shock absorber from track control arm ②.

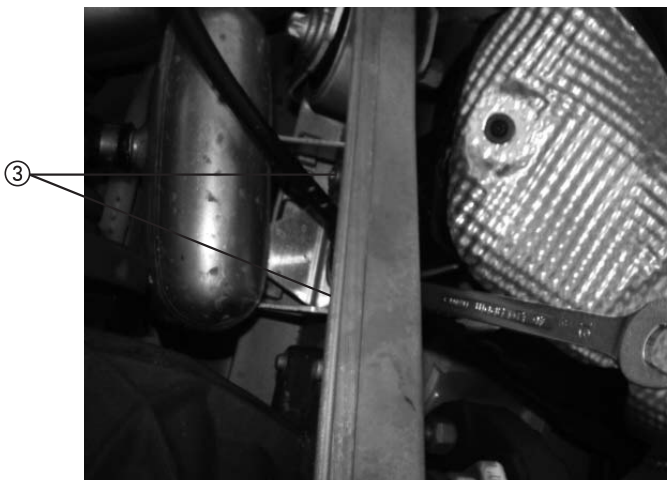


- Dismantle air spring from track control arm ④.



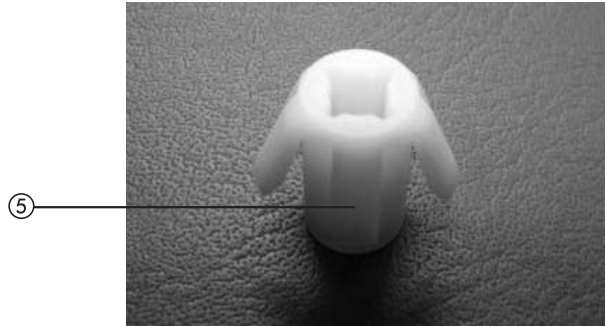
- Pull off suspension module from upper holder clip using suitable tools.
- Support rear axle.
- Remove 4 screws and lower axle.
- Remove air line and cables at the top of the air spring module.
- Seal off line with plugs.

- Disconnect equalizing reservoir from vehicle ③.
- Remove air spring together with equalizing reservoir.



Installing the rear air spring

- Only fully tighten all movable, suspension related screw connections in ready to drive condition observing the manufacturer's specifications and tightening torques.
- Renew self-locking nuts.
- Do not twist air spring when installing.
- Ensure that the dust cover is seated correctly at the air spring.
- Install new upper holder clip on the pin at the vehicle pan and tight it up full. ⑤.



- Unscrew pressure line connection of the new air spring.



Don't remove plastic plug first.

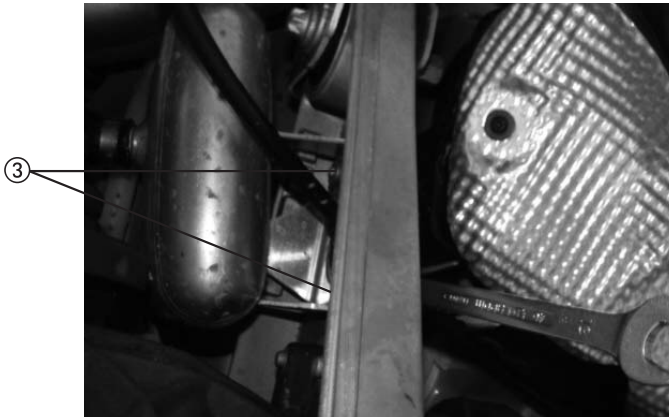
- Replace used parts of the pressure line connection with new parts. Pay attention to the correct position of the tapered ring (the cone must go with the pressure line).



- Fix new upper holder clip on the pin at the vehicle pan.
- Insert air spring and equalizing reservoir.
- Fit air line to the top of the air spring (torque to 2 Nm).
- Insert electric plug at the top of the air spring module.
- Fit air spring and make sure that it locks on the spring clip.



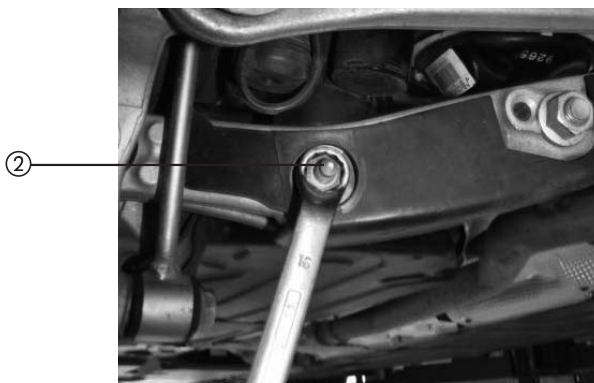
- Mount equalizing reservoir (torque to 20 Nm) ③.



- Mount axle (Installation is to be done in a reverse sequence as dismantling).
- Connect air spring to track control arm, don't tighten fully screw connection ④.



- Mount stabilizer.
- Hook up level sensor linkage (axle centre).
- Mount shock absorber to track control arm ②.



- Fit main compressed air line (middle) (torque to 2Nm) [e.].

Note:

BILSTEIN accepts no liability whatsoever for damage to the vehicle or parts caused by improper replacement. Any modifications at the air spring will automatically cause the guarantee to terminate immediately.

- Insert main electric plug connection [g.).



- Insert plug connections (fender) ①



- Mount inner fender.
- Pressurize air spring to 0,5bar (7,3PSI).
- Level air spring and track control arm (outer rate 36mm, inner rate 19mm) ⑤.



- Pressurize air spring to 2bar (29PSI).
- Fit wheel.
- Lower vehicle up to standard vehicle height from the lifting platform.



Never under any circumstances allow the vehicle to be fully lowered from the lifting platform (hoist) with the air suspension depressurized.

- Pressurize air spring to 5bar (72PSI).
- Check air suspension system for leaks.
- Lower vehicle with pressurized air spring modules from the lifting platform.
- Fully tighten screws loosened during the work in ready-to-drive condition in accordance with the car manufacturer's specifications.