

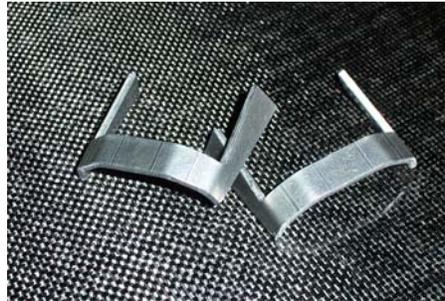


DM

8/12/04

E46 REAR SWAYBAR REINFORCEMENT

Part # T-SU-46-75-461



The BMW E46 3-Series chassis is one of the most rigid and well built BMW chassis to date. Even so, it still has some of the traditional BMW weak points. One of these is the rear sway bar mounts. From chassis to chassis the problem has not been identical, but all the damage we have seen has been related to metal fatigue. The metal fatigue is due to the constant twisting and side loading of the sway bar. These forces on the sway bar will cause the mounting points to fail over time. The failure can happen faster with sway bar bind do to improper maintenance of the bushings, however proper sway bar bushing maintenance does not totally eliminate the problem. In the case of the E46 the sheet metal for the bushing bracket does not have enough material to support the loads being transferred to the subframe. We have designed the reinforcement to strengthen and redirect the load to stronger sheet metal. **Requires Welding.**

Applications: 1999 - 2005 (E46 3- series) Does not work on E46 M3

Parts list for kit: 2 steel brackets

When would it be a good time to perform this work on my car?

- You can save time if you are doing any rear suspension work, exhaust, or even if you are just doing a differential fluid change.

Install time: 1.5 hours

Installation guidelines (pictures on the following pages):

Notes: Subframe was removed for instruction photography; it is not necessary to remove your subframe when installing this kit

1. Properly lift and support the car to access the rear subframe
2. Remove sway bar bushing brackets from subframe and lower sway bar out of the way. You may want to remove the sway bar from the car for easier accesses. Remove or cover with leather any plastic or rubber parts that may melt or burn while welding.
3. Prep Surfaces for welding by removing any paint from subframe (see figure 1).
4. Clamp the reinforcement in place. Make sure the bottom of the reinforcement is lined up with the bottom of the subframe sway bar bracket (see figure 2).
5. Weld reinforcement in place as shown and let cool (see figure 3).
6. Primer and Paint bare metal surfaces and let dry (see figure 4).
7. Assemble sway bar and any other parts removed from car and road test.

