



## SPRING LEVELING KIT (FRONT) 2005+ Ford F250/350 4x4

### IMPORTANT! READ THIS FIRST!

Installation of shock absorbers requires special tools and expert knowledge. Accordingly, installation of all BILSTEIN products must be performed by a qualified suspension specialist.

When replacing other brands, BILSTEIN shock absorbers should always be installed as a set. All BILSTEIN products must only be used for the specific, intended application as indicated in the application guide. **Any use of any BILSTEIN product other than for its intended use may result in serious bodily injury or death.**

Always use a chassis hoist for the installation of BILSTEIN products and make certain that the raised vehicle is securely attached to the hoist and/or supported 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.** If you elect not to use a chassis hoist, at least make sure the vehicle is on level ground, that all tires on the ground during installation are blocked to prevent movement, that at least two tires are on the ground at all times, and that adequately secured safety stands (jack stands) are used to support the chassis. **NEVER** get under the vehicle until you have checked to make sure all of these steps are performed.

BILSTEIN suspension products are gas-filled and are highly pressurized.

- Never place any BILSTEIN product in a vise or use a clamp on any BILSTEIN product.
- Never apply heat near any BILSTEIN product.
- Never attempt to open or repair any BILSTEIN product, in order to prevent **serious bodily injury or death.**

Any attempt to misuse, misapply, modify, or tamper with any BILSTEIN suspension product voids any warranty and **may result in serious bodily injury or death.**

While installing any BILSTEIN product:

- Do not use impact tools for loosening or tightening fasteners, because this may destroy the screw threads.
- Self-locking fasteners must only be used **once!**
- Reuse original equipment components only if they are in good condition, otherwise replace them with new components.
- Never remove the slight film of oil on the piston rod and seal.
- All mounting fasteners for shocks and struts must be securely tightened before the vehicle is operated.

After installing any BILSTEIN product:

- The suspension caster and camber must be checked and/or adjusted to comply with the vehicle manufacturer's specifications.
- The (load dependent) brake compensator and the anti-lock brake system must be checked and/or reset to comply with the vehicle manufacturer's specifications.
- The headlight aim must be checked and adjusted.

# E4-WM5-Y709A00 MOUNTING INSTRUCTION

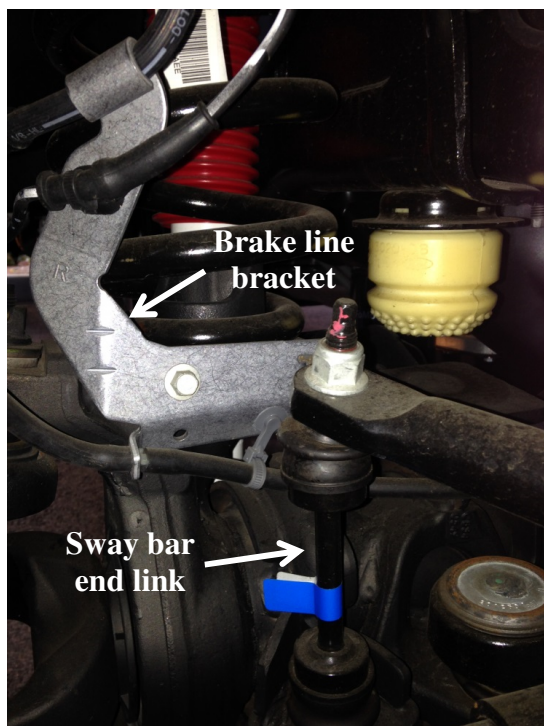


## Installation Instructions: **Warning! Coil springs under high pre-load force!!!**

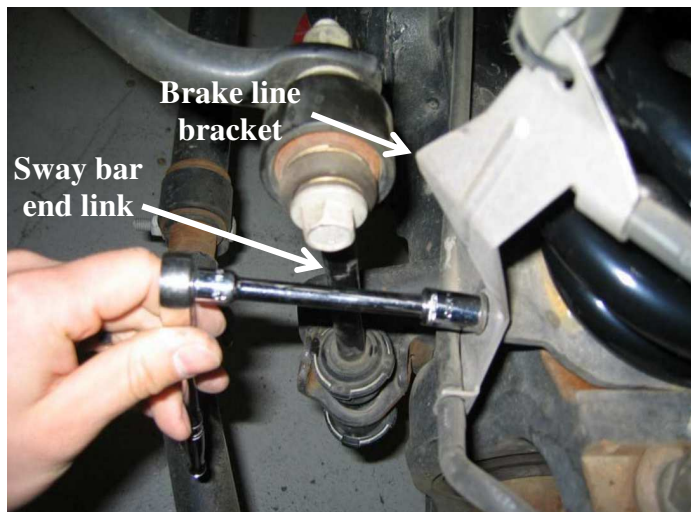
1. Prior to installation, read instructions thoroughly and inspect the items within the kit.
2. Take vehicle ride height measurements on a level surface prior to disassembly.
3. Support vehicle on a chassis hoist or make sure the vehicle is on a safe/solid working surface with the emergency brake engaged. Block the rear wheels for added safety. **Do not lift the front wheels off the ground.**

The following steps should be performed on both sides of the vehicle:

4. Remove the brake line bracket from the axle housing near the lower spring perch. This will allow the brake line to extend without failure. Figure 1 and 2 show two different versions of the brake line bracket. Depending on the year of your vehicle the brake line bracket design may be different but the same principal should still apply.



**Figure 1**



**Figure 2**

5. Disconnect sway bar end link at one of the attachment points. See Figure 1 and 2 for two different versions of the sway bar and end link. Depending on the year of your vehicle the end link design may be different but the same principal should still apply. Pull link out of mount hole and secure sway bar to frame. *Failure to do this will result in possible damage to sway bar attachment points.*

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## MOUNTING INSTRUCTION



6. Remove upper shock mount.
7. Slowly and carefully raise the vehicle by the frame until O.E. springs become loose in the seats. Remove springs. **Take caution not to over extend brake lines!!!!**
8. If new shocks are being installed at this time, remove lower shock mount bolt and remove the shock absorber. If the shocks are not being replaced at this time, loosen the lower shock mount bolt slightly but don't remove the shock from the vehicle.
9. Install Bilstein spring. Make sure factory **upper isolator is reinstalled** on Bilstein spring and the lower spring coil end is mated to the factory spring stop.
10. If new shocks are being installed at this time:
  - Install shock at lower attachment point; hand tighten only.
  - Install lower portion of the upper mounting hardware on to the mounting stem.
11. Slowly lower the vehicle onto the coil spring/isolator, checking for proper spring alignment periodically. Guide the shock absorber mounting stem into the frame mounting hole.
12. Install the remaining upper shock mounting hardware. Confirm the stem bushings are centered in the hole before tightening the lock nut.
13. If new shocks are being installed at this time, refer to additional installation instructions for the Bilstein shock provided in the shock box.

NOTE: some Bilstein shocks include a brake line extension bracket, refer to the installation instructions in the shock box.
14. Reinstall brake line bracket (including relocation bracket if applicable) and sway bar end link. Torque all OE fasteners to manufacturer's specifications. If applicable, torque supplied fasteners for relocation bracket according to the provided shock instructions.
15. Lower the vehicle to static ride height and torque lower shock mount bolt to manufacturer's specifications.
16. Align the vehicle to factory specifications and have any adjustments performed by a certified technician. This completes the installation.