



IMPORTANT! READ THIS FIRST!

Installation of shock absorbers or other suspension components requires special tools and expert knowledge. Accordingly, installation of all BILSTEIN products must be performed by a professional automotive suspension technician.

When replacing other brands, BILSTEIN shock absorbers or other suspension components 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 install any BILSTEIN product without the necessary special tools, expertise, and chassis hoist, you may subject yourself to the risk of serious bodily injury or death.

BILSTEIN shock absorbers are gas-filled and are highly pressurized.

- Never place any BILSTEIN shock absorbers in a vise or use a clamp on any BILSTEIN shock absorber.
- Never apply heat near any BILSTEIN shock absorber.
- 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 shock absorber piston rod and seal.
- All mounting fasteners for shock absorbers and other suspension components must be securely tightened before tension is placed on the suspension system, unless otherwise specified in the manufacturer's service manual or in this instruction.

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. Or, if applicable, adaptive headlights must be checked and recalibrated to comply with the vehicle manufacturer's specifications.
- If applicable, any/all Advanced Driver Assistance Systems (ADAS) must be checked and recalibrated to comply with the vehicle manufacturer's specifications.

CAUTION for COILOVER TYPE SUSPENSIONS!!!

If disassembling a coilover type suspension, refer to the vehicle manufacturer's service manual for proper procedures. The coil spring is preloaded and must be compressed with a spring compressor to release load before the upper mount is disassembled. Failure to follow the vehicle manufacturer's procedures may cause serious injury or death, and may damage the vehicle.

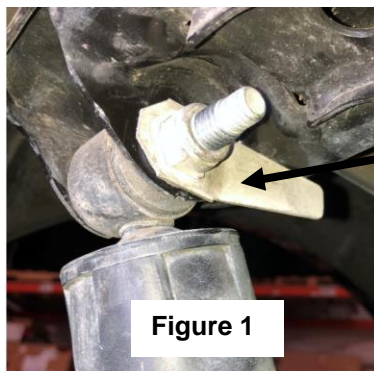
IMPORTANT!!!

This BILSTEIN product may or may not be compatible with non-BILSTEIN aftermarket products and/or vehicle modifications. It is the responsibility of the professional automotive suspension technician performing the installation to identify any non-OEM components and/or modifications on the vehicle that may interact with the suspension system. These must be evaluated for any potential physical static or dynamic interference with and/or effect on the function of this BILSTEIN product.

IMPORTANT!!!

This BILSTEIN product is NOT compatible with OE wheel backspacing. You must use wheels with 5.75" (or less) backspacing. The largest tire size that will clear with a 5.75" backspaced wheel is a 295 width. Final installation must be evaluated for any potential physical static or dynamic interference between the shock/reservoir assembly and tire.

- A. Remove the existing shock from the vehicle following all procedures in the vehicle manufacturer's service manual. You can discard the left (driver side) upper flanged nut as this will not be reused.



Flanged Nut to
be Discarded

- B. Install the complete shock/reservoir assemblies on the vehicle with the reservoirs oriented as shown below. The original bolts should be reused with the supplied nuts. Hand tighten them for now. Position reservoir for driver side as depicted in Figure 2. Position reservoir for passenger side as depicted in Figure 3.



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MOUNTING INSTRUCTION



- C. Install the supplied secondary schrader cap assembly by screwing it onto the reservoir cap for both sides as shown below. Torque to 13 lb•ft (17.5 N•m).

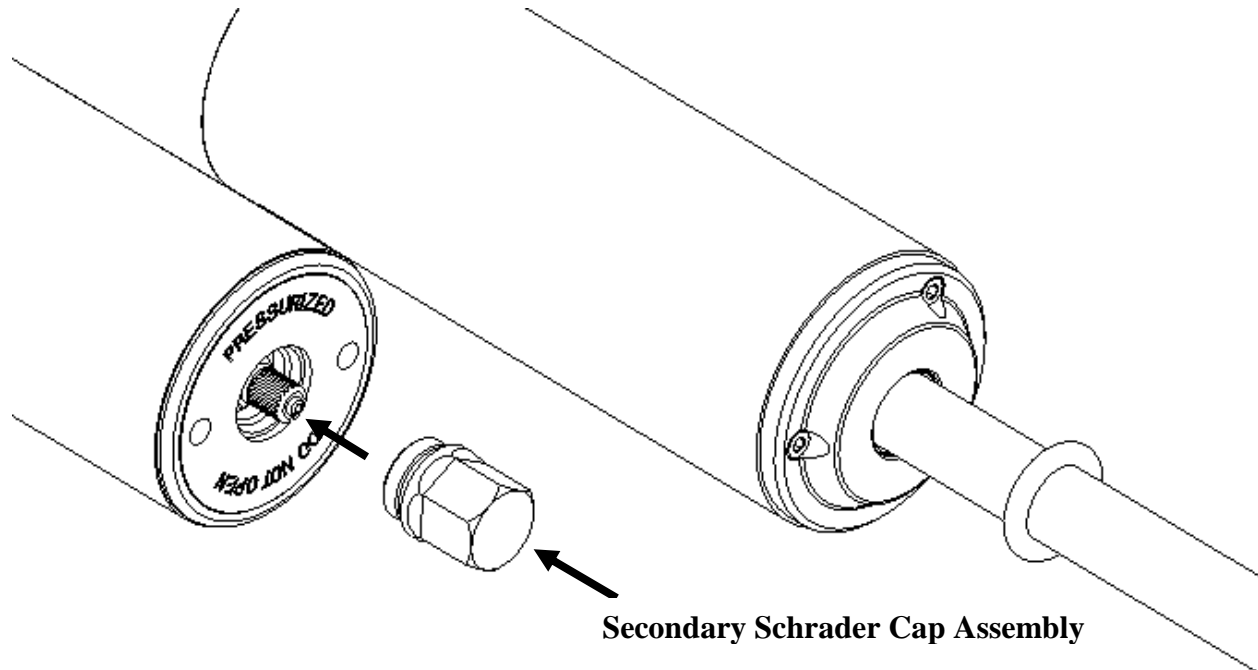


Figure 4

- D. Be sure to lower the vehicle such that its full weight is on the suspension prior to fully tightening the fasteners.
- E. Carefully check for any possible interference between the whole shock/reservoir assemblies and any other components on the vehicle. The shock/reservoir assemblies depicted herein are appropriate for most Ford F150 vehicles, however, some wheel/tire and or lift kit combinations may create interference problems. It is the responsibility of the installer to determine if there is any potential for interference.
- F. Tighten the upper and lower shock bolts to the vehicle manufacturer's service manual torque specifications.
- G. Installation is now complete.

Dual Speed Reservoir Adjustment

These dampers come equipped with a high and low speed compression damping adjusters located on the reservoir. The high speed is the blue knob and is labeled as such, and the low speed is the gold knob and is labeled as such. The **FULL FIRM** setting for each adjuster knob is achieved when the knob is turned all the way **CLOCKWISE**. The **FULL SOFT** setting for each adjuster knob is achieved when the knob is turned all the way **COUNTER-CLOCKWISE**. To make high or low speed adjustments, simply turn each knob individually until the desired level of control is achieved. To stiffen the ride, turn the knobs clockwise. To soften the ride, turn the knobs counter-clockwise.

The factory setting of these adjusters are as follows:

- High Speed (blue knob) – 6 clicks counter-clockwise from fully firm (10 total positions, 1 full rotation)
- Low Speed (gold knob) – 13 clicks counter-clockwise from fully firm (20 total positions, 2 full rotations)



Dual Speed Reservoir Adjuster

B8 8100 service:

For service of your B8 8100 shocks, please contact:

THYSSENKRUPP BILSTEIN OF AMERICA
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