

E4-WM5-Y651A00

MOUNTING INSTRUCTION



IMPORTANT! READ THIS FIRST!

B8 8100 bypass shocks are corner specific. This instruction applies to both the left (P/N: 25-284683) and right (P/N: 25-284690) rear shocks. Skip to page 5 and 6 to see the final result for both sides.

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.

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B8 8100 bypass shocks feature a proprietary BILSTEIN zinc plated finish. This finish must be serviced in order to maintain its luster. Particularly in moist climates, a protective coating, such as a wax or lubricating oil should be periodically applied to prevent tarnishing. This finish is not covered under warranty.

It is normal to hear a slight audible clicking noise during compression and rebound strokes in the B8 8100 bypass shocks, most notably during low velocity events. This is due to the internal check pistons opening and closing to create the externally adjustable compression and rebound zones.

B8 8100 bypass shock installation procedure:

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- A. Remove the existing shock from the vehicle following all procedures in the vehicle manufacturer's service manual. Inspect the OE upper and lower mount hardware for any damage or excessive wear. If these components are in good condition, save them for reuse later. If damage or excessive wear is present on any of these components, purchase the required replacement OE components. You can discard the left (driver side) upper flanged nut as this will not be reused.



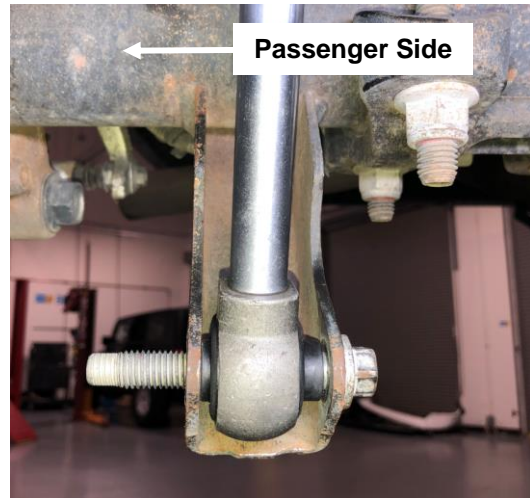
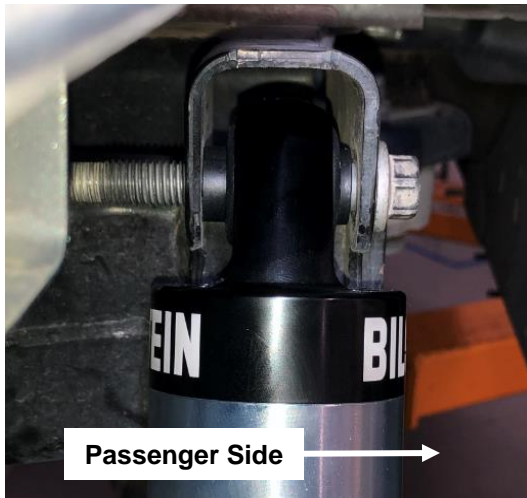
**Flanged Nut to
be Discarded**

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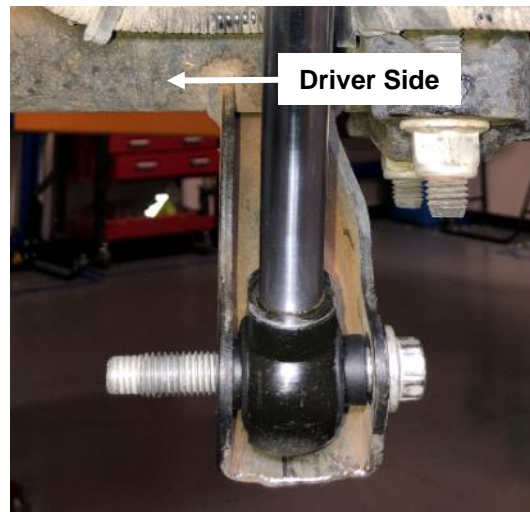


- B. The upper and lower mount bushings are offset 3mm to one side so that the shock absorbers sit further outboard of the vehicle (closer to the tires). Mount the left and right so that these bushings are oriented properly as shown below. Orient the reservoirs for left and right on the top side of the shocks. Install the shocks using the nuts and bolts from step A and hand tighten for now. Be sure to replace the flanged nut from step A with the Bilstein provided nut for the left side upper mount.

Passenger Side



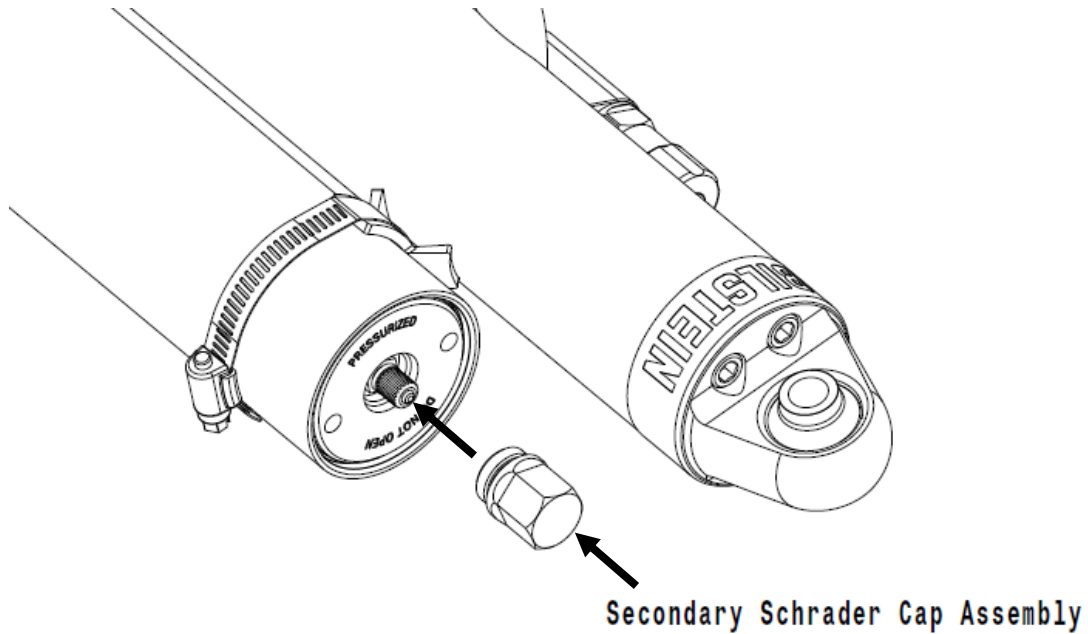
Driver Side



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- C. Take the secondary schrader cap assembly provided and screw it onto the reservoir cap for both sides as shown below. Torque to 13 lb•ft (17.5 N•m).



- D. If a chassis hoist has been used, be sure to lower the vehicle such that its full weight is on the suspension. Torque the upper and lower shock bolts to vehicle manufacturer's specifications.
- E. Installation is now complete.

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Final left rear (driver) 25-284683 B8 8100 bypass shock installed on vehicle:



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Final right rear (passenger) 25-284690 B8 8100 bypass shock installed on vehicle:



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B8 8100 bypass shocks allow the user to tune the damping for the best possible ride quality of their vehicle. The shocks offer multiple zones of compression and rebound damping, depending upon the bypass configuration. The factory setting is:

Rebound – 6 full turns out from fully closed
Compression – 7.5 turns out from fully closed

Note: The bypass adjusters allow adjustment up to 10 full turns out from fully closed.

B8 8100 bypass adjustment procedure:

Rotate the blue and red adjuster knobs to make the desired adjustment.

TURN IN (Clockwise) the adjuster knob to **INCREASE** damping

TURN OUT (Counter Clockwise) the adjuster knob to **DECREASE** damping

B8 8100 bypass service:

For service of your B8 8100 bypass shocks, please contact:

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