

# E4-WM5-Y485A00 MOUNTING INSTRUCTION

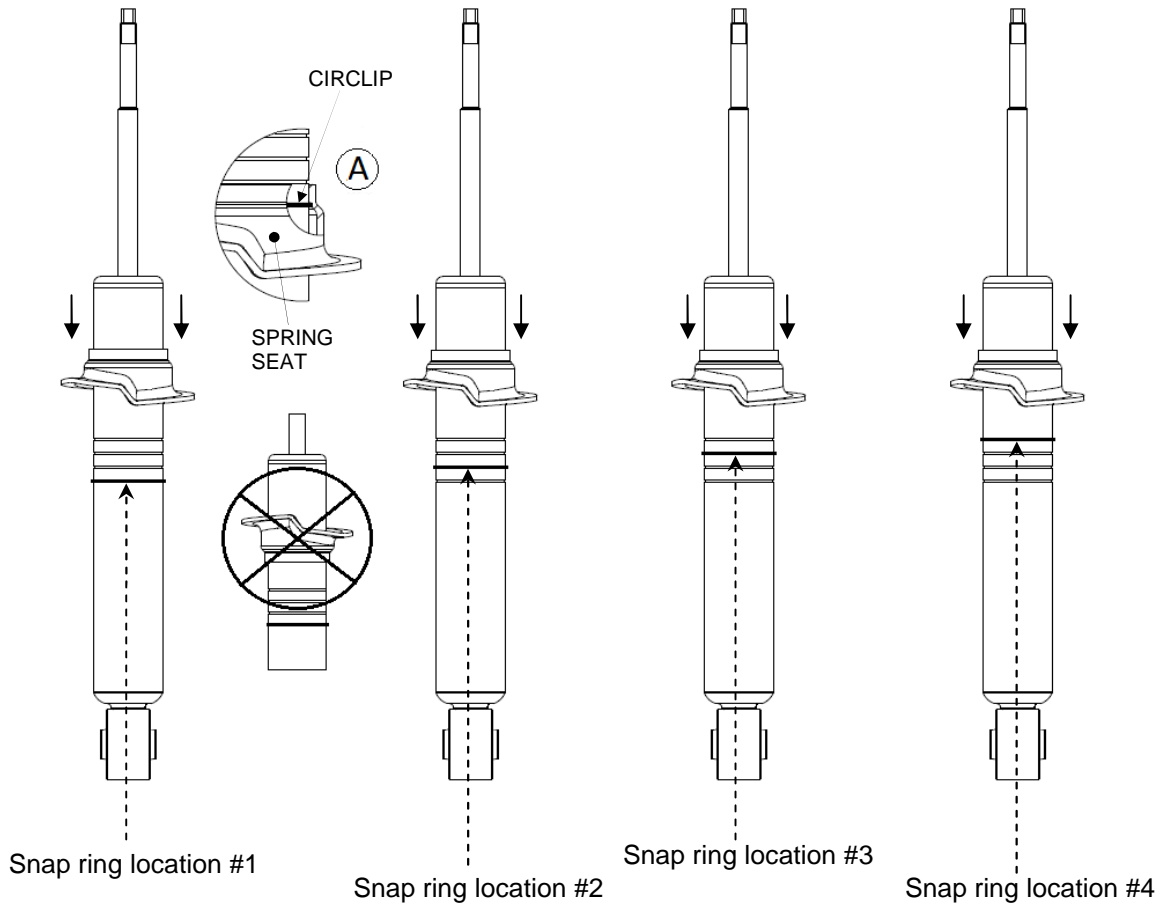


\*PLEASE NOTE: For optimum ride performance it is recommended that 2" lift rear coil springs be installed (220 lb/in) in conjunction with the 5100 series front (24-248730) and rear (24-249966) shock absorbers\*

## IMPORTANT:

### PLACE CIRCLIP IN APPROPRIATE GROOVE TO ADJUST RIDE HEIGHT.

Use appropriate tools to move the circlip. Ensure that the circlip is fully seated in the groove after moving it (you should be able to rotate it manually in the groove). Install the spring seat in the direction shown only. The circlip must fit completely in the groove inside spring seat (A). **Improper installation will cause permanent damage to the shock!**



snap ring location	Typical Front Lift Height**		
	with 2" lift rear coil springs installed (Rate = 220 lb/in)	with 1.5" lift rear coil spacers installed	with OE rear coil springs
#1	stock	stock	stock
#2	0.78"	0.84"	0.92"
#3	1.61"	1.72"	1.89"
#4	2.30"	2.46"	2.70"

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\*\* Ride heights indicated are typical. Actual ride height is influenced by which factory suspension the vehicle is equipped with and its condition; optional equipment and accessories on your vehicle, and other vehicle modifications such as replacement coil springs, wheel and tire combinations, etc.

Modifying/lifting the suspension to your vehicle may raise its center of gravity and may make it more susceptible to loss of control and/or rollover, which may result in death or serious injury. We strongly recommend that you offset the loss of rollover resistance as much as possible by increasing tire track width, and that you equip the vehicle with a functional roll bar and cage system.

Wear seat belts and shoulder harnesses at all times, and avoid situations where a side rollover may occur.

### **IMPORTANT!**

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

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, 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.

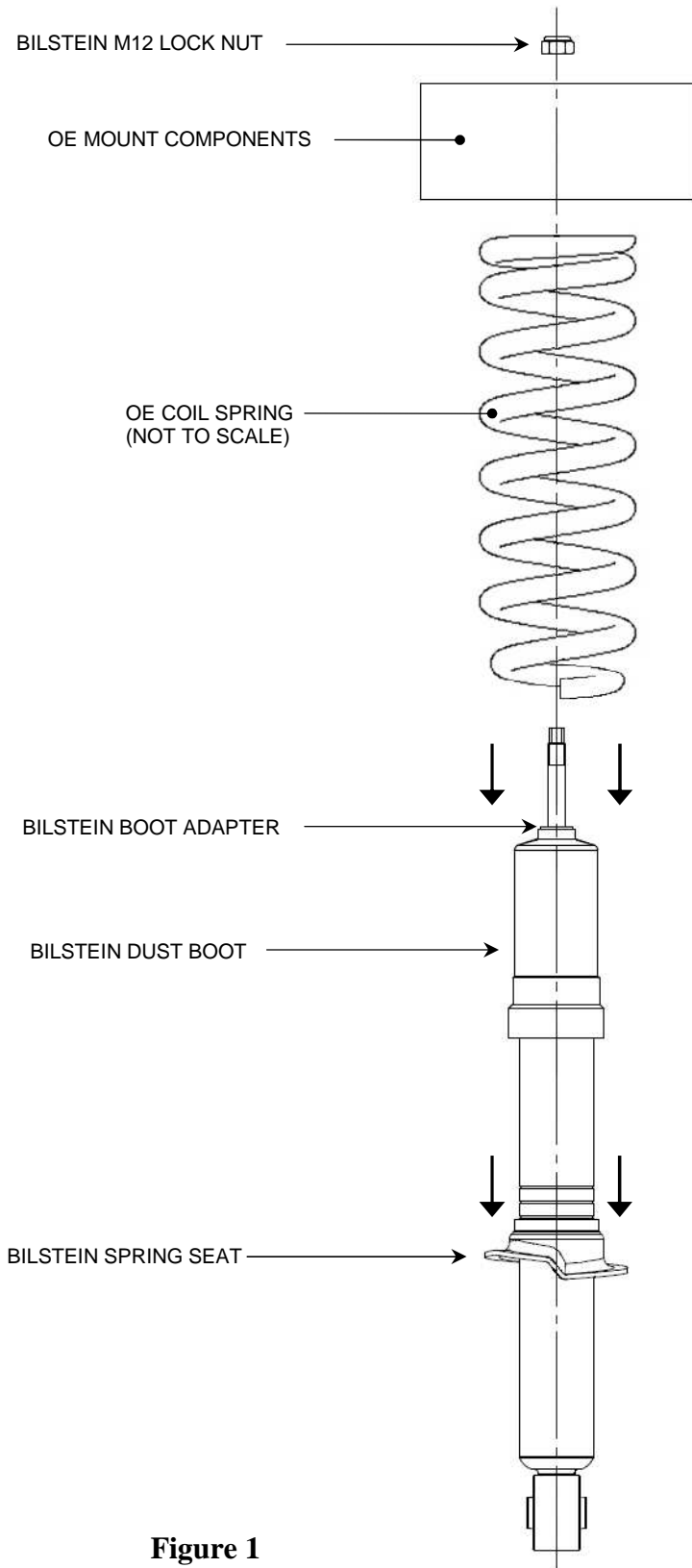
### **CAUTION!!**

***Before disassembling the front 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.***

### **Instructions for assembly of front shock absorber module:**

1. Install the spring seat onto the shock body as shown. Ensure that the groove inside the spring seat fits over the circlip on the shock body (see page 1 detail (A)). The dust boot and boot adapter will need to be removed to slide the spring seat on.
2. Re-install the dust boot and boot adapter onto the stem of the rod as shown. The boot adapter is clipped into the top of the dust boot. Install OE coil spring and re-install all original mount parts in reverse order of removal in accordance with the vehicle manufacturer's Service Manual. Please refer to Figure 1 for the proper order of installation of the module components.
3. Install new lock nut and tighten until it bottoms out. Torque lock nut to vehicle manufacturer's service manual torque specification.

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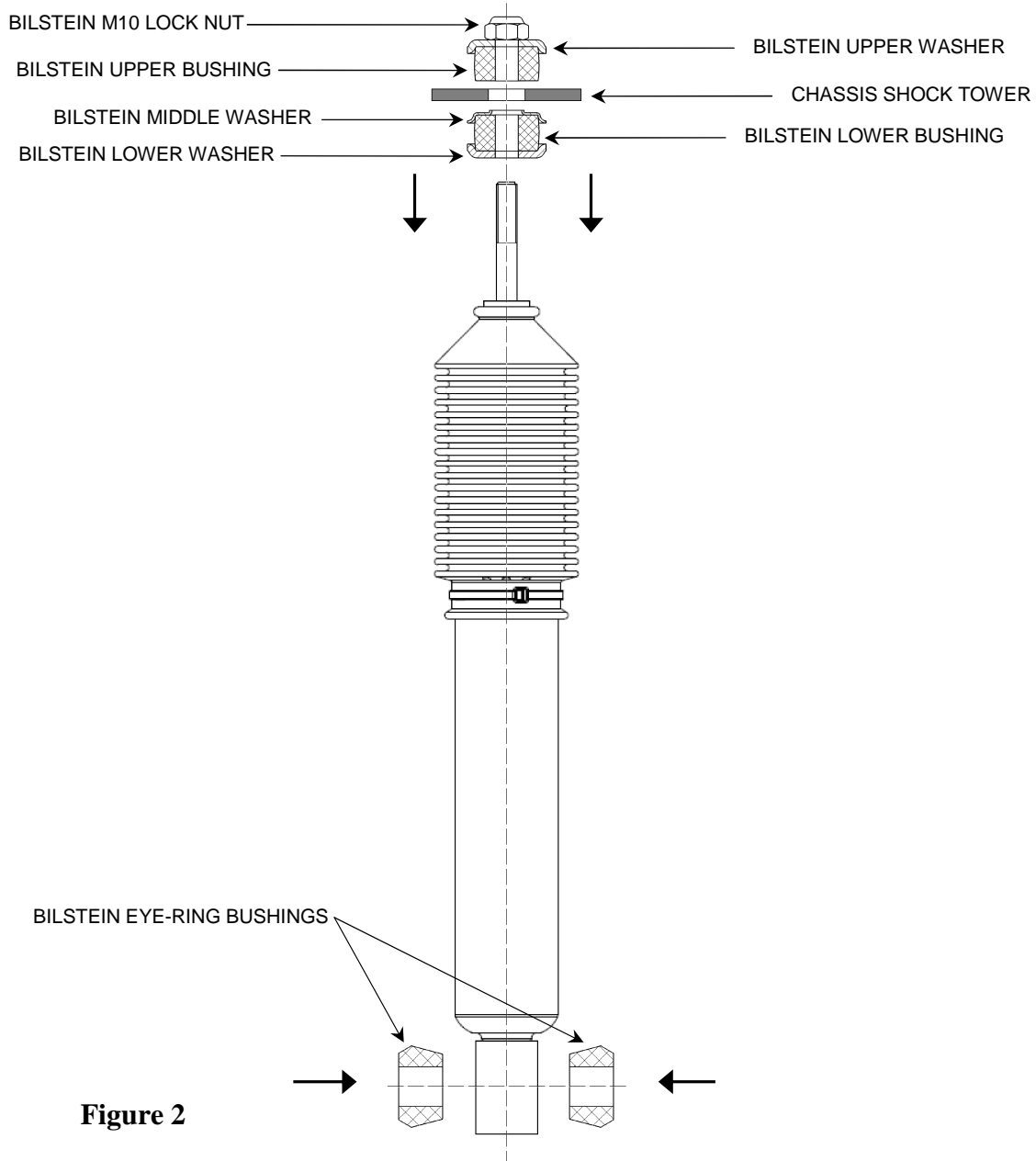
**Figure 1**

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## Rear Shock Installation Procedure:

- A. Remove the existing shocks from the vehicle following all procedures in the vehicle manufacturer's service manual.
- B. Using the supplied stem mounting hardware, install the lower washer, lower bushing, and middle washer onto the shock stem. Using the supplied eye-ring bushings for the lower mount, install the Bilstein Shock Absorber in the original location and attach the lower mount. Please refer to Figure 2 for the proper order of installation of the stem hardware and correct orientation of the eye-ring bushings.
- C. Install the upper bushing, upper washer, and lock nut. If a chassis hoist has been used, be sure to lower the vehicle such that its full weight is on the suspension prior to fully tightening the fasteners.
- D. Tighten the lower mount fasteners to the vehicle manufacturer's service manual torque specification. Tighten the lock nut on the stem until it bottoms out and torque to vehicle manufacturer's service manual torque specification.



**Figure 2**