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Revisions			
Rev.	Description	Date	Approved
A	Initial Release Per ECO 17-050	11/15/17	AS



## Jeep TJ/LJ Front Lower Shock Extension

Installation Instructions

Applications:

1997-2006 Jeep Wrangler (TJ/LJ)



TITLE:

**JEEP TJ/LJ FRONT LOWER SHOCK  
EXTENSION INSTALLATION  
INSTRUCTIONS**

SIZE	DWG NO:	REV
<b>A</b>	<b>8167-01-INST</b>	<b>A</b>
SCALE: N/A		PAGE 1 OF 6



## JEEP TJ/LJ FRONT LOWER SHOCK EXTENSION INSTALLATION INSTRUCTIONS

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Thank you for purchasing the best aftermarket products available for your vehicle. We strongly feel that the parts you are about to install should meet or exceed your expectations for performance. Proper assembly is critical to the performance of these components and the vehicle as a whole. Please take the time to carefully read these instructions and familiarize yourself with the installation procedure before working on your vehicle. If you have any questions PLEASE contact Synergy Manufacturing BEFORE beginning installation. Thanks again for supporting Synergy – enjoy the performance benefits of the best aftermarket products available for your vehicle!

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Modifying or otherwise altering vehicle components may cause the vehicle to handle differently than originally designed. It is the driver's responsibility to familiarize themselves with the performance and handling characteristics of the modified vehicle. Vehicles with larger diameter than stock tires must be driven carefully and cannot be expected to perform as stock or meet OEM performance with regard to handling, braking or crash performance. Ensure all replacement components are compatible with vehicle capacities so as not to overload components, especially tires. It is up to the individual to ensure that the vehicle and all components are compatible with the intended vehicle use, including load ratings, road conditions, and driver abilities. Thorough and frequent vehicle inspections are recommended to ensure a safe and reliable state of readiness, especially after off-highway use.



## Parts List

<b>8167-01 JEEP TJ/LJ FRONT SHOCK RELOCATION BRACKETS</b>		
<b>QTY</b>	<b>Part Number</b>	<b>Description</b>
2	816701-PC	JEEP TJ/LJ FRONT LOWER SHOCK EXTENSION, POWDERCOATED
4	N/A	3/8-16 X 1.25" GRADE 8 HEX HEAD BOLT
4	N/A	3/8-16 LOCK NUT
8	N/A	3/8 GRADE 8 FLAT WASHER

## GENERAL NOTES

- These instructions are also available on our website; [www.synergymfg.com](http://www.synergymfg.com). Check the website before you begin for any updated instructions and additional photos for your reference.
- The Jeep Wrangler platform has a large array of aftermarket parts available. Not all parts will work with each other. It is up to the end user to determine which parts are compatible with their vehicle. These mounts are designed to allow the Synergy 2" front lift springs to cycle through the designed range of movement with most aftermarket 0-2" lift shocks but may be useful in many other scenarios.

## Tools Needed

- Basic hand tools
- Wrenches or sockets in sizes: 13mm and 9/16"
- 7/16" drill bit and drill

## Estimated Installation Time

**1 Hour**

## Installation

1. Remove the lower end of the shocks from the axle brackets. See **Figure 1**.



**Figure 1. Lower Shock End in Axle Bracket**

2. Use a 7/16" drill bit to slightly increase the diameter of the stock shock mounting bolt holes in the axle. See **Figure 2**.



**Figure 2. Drilling Out Shock Mounting Holes**



3. Install shock extension brackets with the 3/8" hardware on the axle with the opening facing up and the bent edges out, the welded edges facing the center of the vehicle. Use a washer under each bolt and under each nut. **See Figures 3 and 4.**

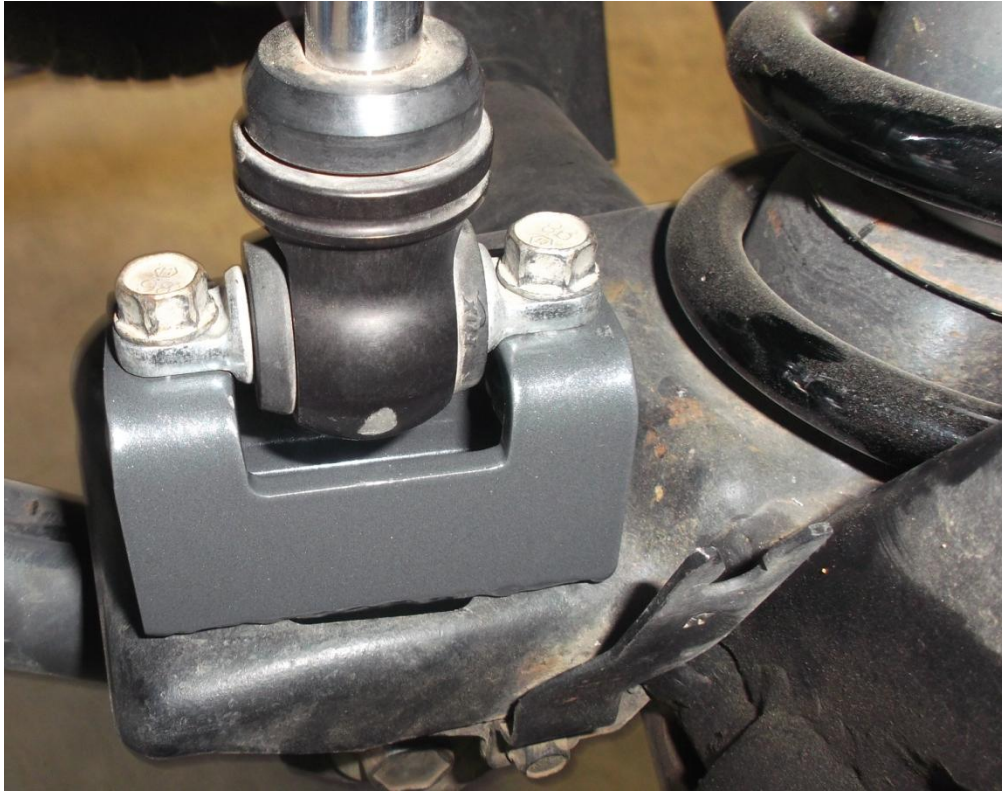


**Figure 3. Shock Extensions Installed With Opening Facing Up, Bent Edges Out**



**Figure 4. Shock Extensions Installed With Bent Edge on Right, Facing Tire**

4. Install shocks on the top of the shock extensions with the stock hardware. See Figure 5.



**Figure 5. Shock Installed on Extension with Stock Hardware**

5. Torque stock hardware to 21 lb-ft and new 3/8" hardware to 35 lb-ft. Recheck hardware after the first 100 miles.

Installation is complete!