

# JKS<sup>®</sup>

## INSTALLATION INSTRUCTIONS

**Product: Front and Rear Shock Extension Bracket Kit**  
**Part Number: JKS9613**

**Applications: Gladiator JT Mojave, 2020-2024**

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### Welcome

CONGRATULATIONS on purchasing a set of new Shock Extension Brackets from JKS Manufacturing. We are committed to providing you with the best products available and your satisfaction is our first priority.

PLEASE READ these Installation Instructions carefully, and save them for future reference, as they contain important installation and maintenance information.

### Tools Required

- Metric/Standard Socket Wrench Set
- Torque Wrench

### Important Notes

- It is recommended that this front and rear shock extension bracket kit be used in conjunction with a 2.5" suspension lift. Can be used with 3.5" suspension lift kits but will limit suspension down travel slightly.

### Parts

	Description	QTY
<b>A</b>	Shock Extension Bracket- Driver's side	1
<b>B</b>	Shock Extension Bracket- Passenger's side	1
<b>C</b>	3/8"-16 x 1-1/4" Bolt	2
<b>D</b>	3/8"-16 Prevailing Torque Nut	2
<b>E</b>	3/8" SAE Washer	4
<b>F</b>	12mm-1.50 x 30mm Bolt	2
<b>G</b>	12mm Flat Washer	4
<b>H</b>	12mm-1.50 Prevailing Torque Nut	2

<b>I</b>	14mm-2.00 x 80mm Bolt	2
<b>J</b>	14mm Flat Washer	4
<b>K</b>	14mm-2.00 Prevailing Torque Nut	2
<b>L</b>	Rear Shock Extension Bracket	2
<b>M</b>	3/8"-16 x 1" Bolt	4
<b>N</b>	3/8"-16 Prevailing Torque Nut	4
<b>O</b>	3/8" SAE Washer	8
<b>P</b>	9/16" SAE Extra Thick Washer	4
<b>Q</b>	14mm-2.00 x 90mm Bolt	4
<b>R</b>	14mm Flat Washer	8
<b>S</b>	14mm-2.00 Prevailing Torque Nut	4
<b>T</b>	0.75" x 0.090" x 1.575" x Sleeve	4

## Installation

### Front

#### □ 1. PREPARATION

- Raise and support vehicle chassis with jack stands behind front lower control arm pockets.
- Support the front axle with a hydraulic jack and remove the front wheels and tires.
- Disconnect the front shocks from the axle (Fig. 1), keep all hardware for reinstallation. Work on one side of the vehicle at a time.



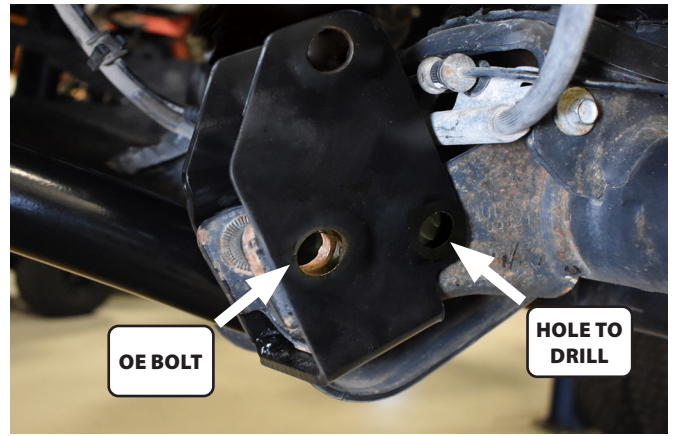
**Fig. 1**

- Carefully lower the axle approximately 2 inches, making sure that no other components are binding or stretched.

**Note:** *Disconnecting the front driveshaft is recommended to prevent binding when lowering the axle. Ensure brake lines have adequate slack before lowering the front axle. Disconnect brake line bracket at the lower coil seat and brake line bracket at the frame if additional slack is needed.*

## □ 2. INSTALLATION

- The front shock extension brackets are side specific: the jog should be placed on the engine side of the lower axle shock mount. 05550 is the driver's side bracket and 05551 is the passenger's side bracket.
- Slide the passenger side bracket (05551) on and mark the forward most hole on the outside of the bracket that needs to be drilled.
- Mount the 14mm-2.00 x 80mm bolt in the OE lower shock mount location (Fig. 2). Ensure the base of the shock extension bracket is touching the base of the OE shock bracket before marking the hole to be drilled.



**Fig. 2**

- Use a center punch to set hole center and drill a pilot hole with a 1/8" drill bit into the axle mount. Step up to 7/16" drill bit for final hole size. Touch up raw metal surface with paint.

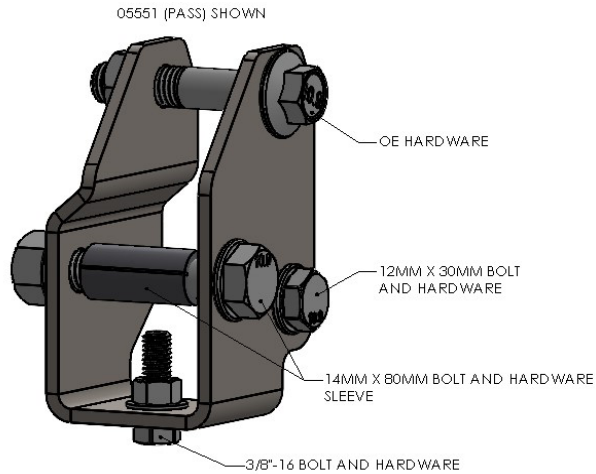
**Tip:** *Remove the brake caliper to provide better access for drilling. Once complete with the 7/16" drill bit, reattach caliper and torque adapter bolts to factory specification.*

**Tip:** *Route/re-mount the brake line bracket at the lower coil spring seat (if previously removed) before mounting the new shock extension bracket.*

- Loosely install the bracket with the hardware included in bolt pack J171 (Fig. 3).
- Sleeve will be used in the OE shock mounting position. Reference Figure 4 for remaining hardware locations.



**Fig. 3**



**Fig. 4**

- Reinstall the shock into the shock extension bracket using the OE hardware. Tighten but wait to torque: torque will be completed in Final Steps.
- Repeat process for the driver side bracket (05550)

**□ 3. FINAL FRONT STEPS**

- Reinstall the front wheels and tires but do not torque lug nuts at this time.
- Torque the OE lower shock mounting bolt to 77 ft-lbs (shock to extension). Verify upper shock mounting bolt torque is 103 ft-lbs (shock to frame).
- Torque the 12mm hardware to 78 ft-lbs, 14mm hardware to 126 ft-lbs, and 3/8" hardware to 37 ft-lbs.
- Double check all hardware for proper torque.
- Check all fasteners after 500 miles and at regularly scheduled maintenance intervals.

**Rear**

**□ 1. PREPARATION**

- Raise and support vehicle chassis with jack stands in front of the rear lower control arm pockets.
- Support the rear axle with a hydraulic jack and remove the front wheels and tires.
- Disconnect the rear shocks from the axle. Work on one side of the vehicle at a time.



**Fig. 5**

- Carefully lower the axle approximately 2 inches, making sure that no other components are binding or being stretched.

**□ 2. INSTALLATION**

- Slide the shock extension bracket over the OE lower shock mount and mark the location of the 2 holes that needs to be drilled (Fig. 6).



**Fig. 6**

- Use a center punch to set hole center and drill a pilot hole with a 1/8" drill bit into the axle mount. Stepping up to a 7/16" drill bit, final drill the two marked holes.
- Loosely install the bracket with the hardware included in bolt pack J158. The 3/8" hardware will be used in the two holes that were drilled, one 14mm x 90mm bolt will be used in the OE shock location. The sleeve will also be used in the OE shock location (Fig. 7).



**Fig. 7**

- Torque 3/8" hardware to 37 ft-lbs.
- Reinstall the shock into the shock extension bracket with one extra thick washer on either side of the bushing (Fig. 8). Use the included 14mm x 90mm bolt, washers and nut. Tighten but wait to torque: torque will be completed in Final Steps.



**Fig. 8**

### □ 3. FINAL REAR STEPS

- Re-install the rear wheels and tires, lower vehicle to ground.
- Torque the lower shock mounting bolt to 126 ft-lbs (shock to extension bracket).
- Torque the provided 14mm hardware to 126 ft-lbs (shock relocation bracket to the OE axle bracket) and 3/8" hardware to 37 ft-lbs.
- Torque front and rear lug nuts to 130 ft-lbs.
- Double check all hardware for proper torque.
- Check all fasteners after 500 miles and at regularly scheduled maintenance intervals.

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