



## **INSTALLATION MANUAL**

**FOR**

**ROCK KRAWLER SUSPENSION, INC.**

**JK/JL NO LIMITS SWAY BAR LINKS**

**2019 1st EDITION**

**08/07/2019**



# ROCK KRAWLER S U S P E N S I O N

**Dear customer:** Thank you for purchasing the best system on the market for your Jeep Vehicle. We are sure you will be happy with this system after your installation is complete. Please take your time during the installation and be sure to do it correctly. Completely read the directions before starting your installation so you know what to expect. Remember, your personal safety depends on it. Should you have any questions during this installation feel free to give our tech line a call (518-270-9822) and we will be happy to help you.

## Welcome to TEAM RK

Share your before & after pictures, install photos & wheeling images.

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@RKSuspension

Instagram



@rock\_krawler

**Note: BE SURE TO CHECK ALL FASTENERS FOR PROPER TORQUE BEFORE TEST DRIVE. RECHECK AFTER 500 MILES AND BE SURE TO CHECK PERIODICALLY.**

- Properly block and secure vehicle prior to installation.
- Always wear safety glasses when using power tools.
- Rock Krawler Suspension recommends the use of Loctite on all hardware, unless noted otherwise.
- The use of limiting straps is recommended to avoid possible damage from over extending the suspension of your vehicle.
- Read and understand all instructions, warnings and safety precautions in these instructions and your owner's manual before attempting to install these components.
- Proper installation of Rock Krawler Suspension products requires knowledge of recommended procedures for disassembly/assembly of OE vehicles and components. Access to OE shop manuals and special tools are required. Attempting to install this kit without knowledge of these procedures may affect the safety of your vehicle and or the performance of these components. Rock Krawler Suspension, Inc. strongly recommends that this system be installed by a certified mechanic with off road experience.
- Rock Krawler Suspension does not recommend combined use of suspension lifts, body lifts or other lift devices. Combined use of lifts may result in unsafe and unexpected handling characteristics. Also, many states now have laws restricting Vehicle lift, bumper heights and other alterations. Consult local laws to determine if your proposed alterations (including installation of this system) comply with your state laws.
- Rock Krawler Suspension does not condone or authorize the use of any other suspension components with its products. Should Rock Krawler Systems or components be installed in junction with other products or not per the provided instructions Rock Krawler Suspension warranty is void and is not to be held accountable for any resulting actions.



## **DRIVING AND HANDLING TIPS**

- For Highway driving it is best to have the front sway bar connected. This will give you the on-highway ride and handling characteristics you expect.
- The ride quality and handling that Rock Krawler is known for is based on using OEM sway bars front and rear with approved shocks. Using any components other than directed can result in adverse handling characteristics and poor ride quality.

## **IMPORTANCE OF JAM NUTS**

**This is a note about jam nuts and the consumer's responsibility. The installer is the person or persons initially responsible for the proper setup of the suspension system and/or components and the initial tightening of the jam nuts. The jam nuts not only hold the orientation of the joint it is on but it is the single component that puts the necessary pre-load on the joints threads. The consumer or vehicle owner is the person or persons responsible for maintaining the jam nuts tightness. Failure to do so will result in the rapid deterioration of the threads in the sway bar links and will impose a "cause for concern" for the occupants of the vehicle. Failure to comply with the warnings heeded in the directions regarding the amount of threads showing past the jam nut will also result in the same "cause for concern" for the occupants of the vehicle. Setting jam nuts to torque is the responsibility of the vehicle owner and or installer. If a threaded section of a component is bad it will show itself defective immediately. Threads that fail over time are due to improper maintenance of jam nuts and can be proven very easily. Thread sections and jam nuts not properly maintained or setup, are not covered under warranty. This is the end user and installer's responsibility.**

## **MAINTAINING HEIMS**

**The heim joints in your sway bar links have no grease fitting because there is a Teflon liner between the rotating surfaces. We suggest being proactive if you live in a corrosive or rust-provoking environment. Examples of corrosive environments are considered above the rust belt or close to the ocean. We suggest spraying the joints down every few months, or after you've been driving through mud.**

**In such cases we recommend spraying down the outside of the Joint with WD-40 or Liquid Fluid Film to ensure the race ways do not dry up. In highly corrosive environments it is also recommended to spray down the suspension components with WD-40 or Liquid Fluid Film. This will minimize corrosion of the components due to exposure to the elements.**

**If the joint is not loose, it is not bad. Only if the ball is sloppy in the joint housing is it a bad joint and should be replaced. Replacement heim joints are always available through Rock Krawler Suspension or an authorized dealer.**

**All Rock Krawler Heim Joints use Teflon Liners and thus are self lubricating. They too can also benefit from spraying down the outside of them liberally with WD-40 or Liquid Fluid Film. Grease should never be applied to them! Take caution when using cleaners and detergents on your vehicle as it can ruin the adhesives used on the Teflon liners yielding a bad heim joint!**

## **ANTI SEIZE**

**In order to prevent rusting and or seizing of joints, Rock Krawler recommends the installer removes both heim joints before installation to apply ant seize inside. There is a stainless steel and 6061 aluminum connection between the link and heim joints. The difference in materials causes an anode/cathode relationship, which can promote corrosion. Both threads are greased during assembly, but ant seize will ensure a long life.**



## Component Starting Lengths

*JK /JL 2.5" lift Assembled Length = 10.00"*

*JK /JL 3.5" lift Assembled Length = 11.00"*

*JK /JL 4.5" lift Assembled Length = 12.00"*



***\*Please Note:*** All Sway Bar Links come preassembled but require adjustment to the above recommended starting dimensions. These measurements are taken from the center of one bolt hole to center of the other bolt hole. **Please check out our Rock Krawler Youtube Channel if need be for how to set the control arms properly and the importance of Jam Nuts...**

## TORQUE VALUES FOR HARDWARE AND JAM NUTS

- All  $\frac{1}{2}$ " & 12mm nuts should be torqued to 75-80 ft-lbs.
- All  $\frac{3}{4}$ " jam nuts should be torqued to 60-75 ft-lbs.

## NO LIMITS

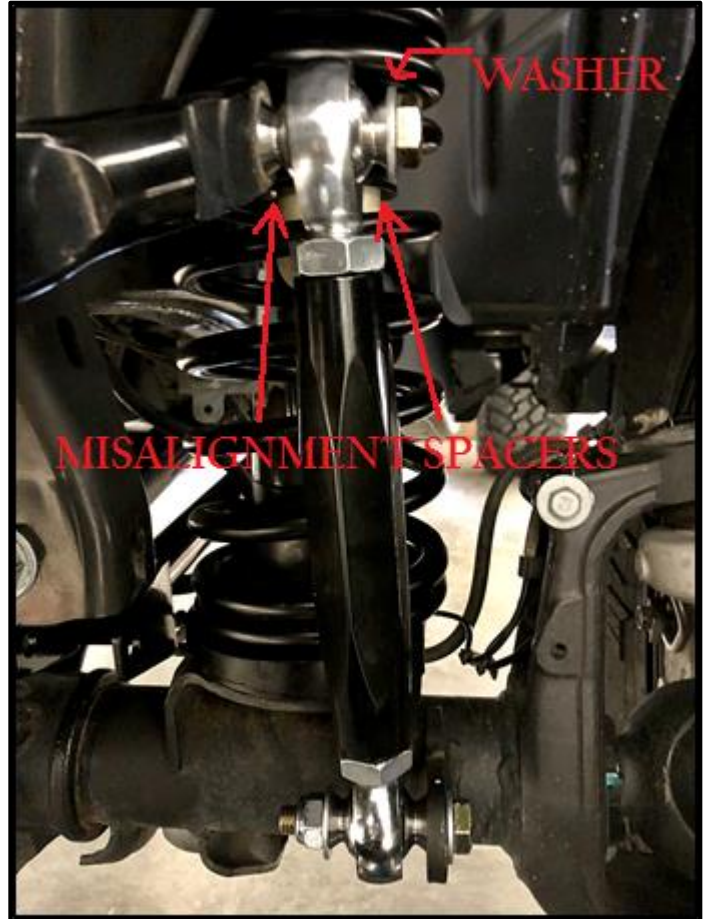
The joints in your links have a total of 64° degrees of total misalignment, or 32° each way. Take your Rubicon to new places confidently, knowing these links are overengineered for that specifically. With a center diameter of 1.25" and  $\frac{3}{4}$ " shank precision heim joints, you will never have to worry about these links snapping or bending. These are designed with racing heritage in mind, enjoy.

## FRONT OF VEHICLE

- 1) Make sure vehicle is on a level, hard working surface if you are using a floor jack and jack stands.
- 2) Block the rear wheels so the vehicle cannot move and make sure the emergency brake is applied.
- 3) Remove the front sway bar links and discard them.
- 4) Raise and support the front of the vehicle with a floor jack.
- 5) Set your sway bar links to the length specified on page four. Torque the jam nuts to 140-150 ft-lbs.
- 6) Start with the side of your choice – Use the supplied 12mm x 70mm bolts, four washers and locknut for each side. Refer to the images below for the orientation of hardware. One washer connects the head of the bolt, that bolt goes through the sway bar link and through the sway bar hole. Then attach another washer followed by a locknut.



**Passenger's side connection**



**Driver's side connection**

- 7) Torque the two 12mm bolts to a value of 75-80 ft-lbs.
- 8) Spray down links with WD-40 to clean/ lubricate
- 9) Your No Limits Sway bar links are complete.



# ROCK KRAWLER

S U S P E N S I O N

## HEIM JOINT REPLACEMENTS / SERVICE PARTS

- Right Handed Thread      **RK07138R**
  - Jam Nut      **RK00009R**
- Left Handed Thread      **RK07138L**
  - Jam Nut      **RK00009L**
- Heim Spacers      **RK07139**