



## INSTALLATION INSTRUCTIONS

**Product: Rear Adjustable Upper Control Arms**  
**Part Number: JKS1639**

**Applications: Wrangler JL, 2018-2022 (Rear Only)**  
**Wrangler JK, 2007-2018 (Rear Only)**

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### Welcome

CONGRATULATIONS on purchasing a set of new Control Arms 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

- JKS1696 or equivalent jam nut wrench
- Hydraulic Floor Jack and Jack Stands
- Metric/Standard Socket Wrench Set
- Torque Wrench
- Anti-Seize Lubricant
- Heavy Duty Ratchet Strap \*
- Factory Service Manual (recommended)

\* Asterisk denotes tools that are not required for some applications. Thoroughly read instructions first to determine which tools will be required for your application.



### ATTENTION INSTALLER

Install Control Arms ONE AT A TIME for easiest alignment of mounting hardware.

### Important

**SUSPENSION COMPONENTS THAT HAVE RUBBER BUSHINGS must be tightened with vehicle on level ground and at normal ride height. The springs must be supporting weight of vehicle when the hardware is torqued.**

**RUBBER BUSHINGS MUST NEVER BE LUBRICATED, as doing so will impair performance and longevity.**

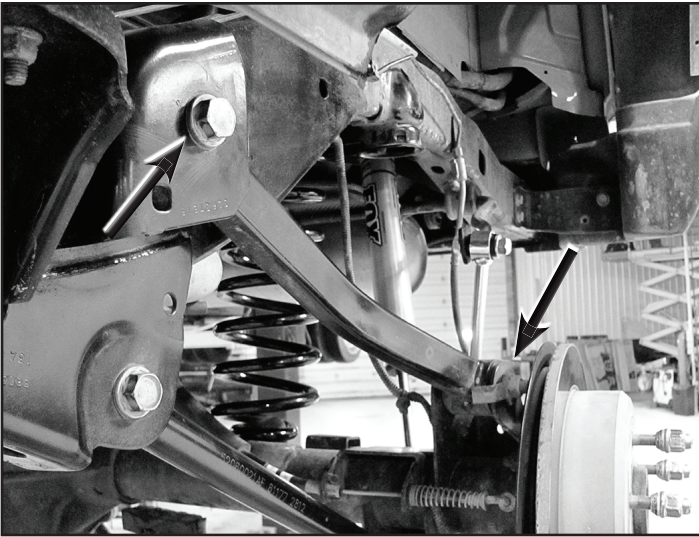
**COMPATIBLE WITH original 4-link suspension configuration and vehicle ride height up to 4.5”.**

**REFER TO FACTORY SERVICE MANUAL for information and procedures not covered in these instructions.**

### Installation

#### □ 1. REMOVE ORIGINAL UPPER SUSPENSION ARM

- Raise and support the vehicle chassis with jack stands positioned in front of the rear lower suspension arm brackets.
- Raise the axle housing back into position and support with a hydraulic jack. **HINT: The axle housing should be evenly supported and the suspension at normal ride height. Do not attempt removal or installation with the suspension extended, or the axle drooped, as this will place tension on suspension arm mounting hardware.**
- Remove the upper suspension arm bolt and nut from the axle housing bracket. Retain the bolt and nut
- Remove the bolt and flag nut from the chassis rail bracket. Retain the bolt and flag nut.



- Remove the original lower suspension arm from the vehicle.
- Proceed to step 2. Complete installation on one side before starting other side.



**HINT:** If mounting bolt is difficult to install due to misalignment of bushing with mounting bracket, either (1) adjust height of axle housing with hydraulic jack, (2) move axle housing into position with a heavy-duty ratchet strap, or (3) temporarily disconnect track bar until mounting holes align.

## □ 2. SET CONTROL ARM LENGTH

- Determine the ideal arm length for your application by considering factors such as:
  - Pinion Angle
  - Tire Clearance
  - Factory length is 17-1/2"
  - Max. length is 19"
- Set both control arms to the same length. Lengthening the arms will increase pinion angle.

## □ 3. INSTALL CONTROL ARM

- Apply anti-seize lubricant to bolt threads of original mounting hardware.
- **Establish control arm orientation.** The arms should be mounted so that the bend goes inward (away from the tire) and the fixed bushing end mounts to the axle.
- Mount the fixed bushing end of the control arm to the axle housing bracket. Install original mounting bolt from inboard side. **Bolt threads should point outboard. DO NOT** torque mounting hardware until instructed.
- Mount the adjustable control arm end to the frame. Install the original mounting bolt from outboard side. **Bolt threads should point inboard. DO NOT** torque mounting hardware until instructed.
- Install original mounting nuts and finger tighten. **DO NOT** torque mounting hardware until instructed.

## □ 4. TIGHTEN MOUNTING HARDWARE

- Once both control arms have been properly installed, lower the vehicle to the ground until coil springs are supporting the full weight of vehicle.
- Torque hardware to the following:
  - Wrangler JL** - UCA axle hardware 74 ft-lbs plus 65 degrees, UCA frame hardware 74 ft-lbs plus 80 degrees.
  - Wrangler JK** - UCA axle bracket hardware 142 ft-lbs, UCA frame bracket hardware 117 ft-lbs.
- Tighten jam nuts using JKS1696 or equivalent.

## □ 5. POST-INSTALLATION INSTRUCTIONS

- Check mounting hardware for proper torque.
- Check hardware after 500 miles of use.

## Maintenance

Control arm flex ends should be checked as part of a regular vehicle maintenance schedule or after every 4-wheeling trip. Ensure jam nuts are tightened, replace damaged or heavily worn bushings.

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