

# JKS<sup>®</sup>

## INSTALLATION INSTRUCTIONS

**Product: Adjustable Upper Control Arms**

**Part Number: JKS7101**

**Applications: Wrangler TJ, 1997-06 (rear only)**

**Grand Cherokee ZJ, 1993-98 (rear only)**

517-278-1226 • jks@sporttruckusainc.com • www.jksmfg.com  
491 W. Garfield Avenue, Coldwater, MI 49036



### Welcome

CONGRATULATIONS on purchasing a set

of new Adjustable 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.

### 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 the weight of the vehicle when the hardware is torqued; or else ride comfort could be affected and premature bushing wear may occur.**

**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 6.0".**

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

### Tools Required

- Metric/Standard Socket Wrench Set
- Torque Wrench
- Tape Measure
- Anti-Seize Lubricant
- Hydraulic Floor Jack & Jack Stands
- 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 Adjustable Control Arms ONE AT A TIME for easiest alignment of mounting hardware.

### Installation

- 1. REMOVE ORIGINAL REAR UPPER SUSPENSION ARM
  - Raise and support the vehicle chassis with jack stands positioned in front of the rear lower suspension arm brackets.
  - Raise and support the rear axle housing with a hydraulic jack. **HINT: The axle housing should be evenly supported, with 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 parking brake cable and ABS wiring (if equipped) from upper suspension arm.

- Remove the rear upper suspension arm nut and bolt from the axle housing bracket. Retain the original mounting hardware.
- Remove the nut and bolt from the chassis rail bracket. Retain the original mounting hardware.
- Remove original rear upper suspension arm.

*position with a heavy-duty ratchet strap, or (3) temporarily disconnect track bar until mounting holes align.*

- Attach the parking brake cable and ABS wiring (if equipped) to the upper Control Arm with plastic wire ties or equivalent.

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## □ 2. SET CONTROL ARM LENGTH

Adjustable Control Arms are fully collapsed when supplied from JKS and must be adjusted to the desired lengths before installation.

The working length of each upper Control Arm can be increased (up to 3.75" longer), decreased (up to 0.25" shorter), or exactly the same as the OE suspension arm.

- Determine ideal Control Arm length for your application by considering factors such as:
  - Length of OE suspension arm
  - Tire Clearance
  - Pinion Angle
- Rotate adjustable end of Control Arm until the desired length is achieved.

**HINT:** *Since no jam nut is used to allow for maximum articulation of the arm, the control arm is designed to have a strong joint between the male and female ends. A bench top vise to hold the bushing and screwdriver to spin the bushing in the shaft may be needed to help adjust the length of the arm.*

- Adjust corresponding Control Arm to exact same length.

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## □ 3. INSTALL CONTROL ARM

- Apply anti-seize lubricant to bolt threads of original mounting hardware.
- Mount the non-rotating (BLACK) end of Adjustable Control Arm to the chassis rail bracket with the greaseable fitting facing UP.
- Install the original mounting bolt and finger tighten the nut. **DO NOT torque mounting hardware until instructed.**
- Mount the rotating (GOLD) end of Adjustable Control Arm to the axle housing bracket.
- Install the original mounting bolt and finger tighten the nut. **DO NOT torque mounting hardware until instructed.**

**HINT:** *If mounting bolt is difficult to install due to misalignment of Control Arm bushing with mounting bracket, either (1) adjust height of axle housing with hydraulic jack, (2) move axle housing into*

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## □ 4. TIGHTEN MOUNTING HARDWARE

- Once all Adjustable Control Arms have been properly installed, lower the vehicle to the ground until coil springs are supporting the full weight of vehicle.
- Using a torque wrench, tighten the mounting hardware to the factory torque specifications for your vehicle.

### **Wrangler TJ, 1997-06**

- Tighten bolt at REAR axle and chassis brackets to 55 ft-lbs.

### **Grand Cherokee ZJ, 1993-98**

- Tighten bolt at REAR axle and chassis brackets to 55 ft-lbs.

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## □ 5. POST-INSTALLATION INSTRUCTIONS

- Adjustable Control Arms are supplied pre-lubricated, although it will be necessary to add more grease after they have been adjusted and installed on the vehicle. **Refer to Maintenance section for specific lubrication instructions.**
- If installing front Adjustable Control Arms at same time, have vehicle professionally aligned before driving on highway.

## Maintenance

Control Arms should be greased regularly as part of vehicle maintenance schedule. Lubricate using moisture resistant marine style grease and a hand-pump grease gun. DO NOT use a pneumatic grease gun. Add grease slowly until resistance is felt. The internal spring-loaded seal can be damaged by forcing too much grease into Control Arms.

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