



INSTALLATION INSTRUCTIONS

Product: Front Adjustable Lower Control Arms
Part Number: JKS1625

Applications: Wrangler JL, 20018+ (front only); JT Gladiator, 2020

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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.

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.



ATTENTION INSTALLER

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

Tools Required

- JKS1695 or equivalent jam nut wrench
- Hydraulic Floor Jack and Jack Stands
- Metric/Standard Socket Wrench Set
- Torque Wrench
- Cut of wheel or equiv.
- Heavy Duty Ratchet Strap *
- Factory Service Manual (recommended)

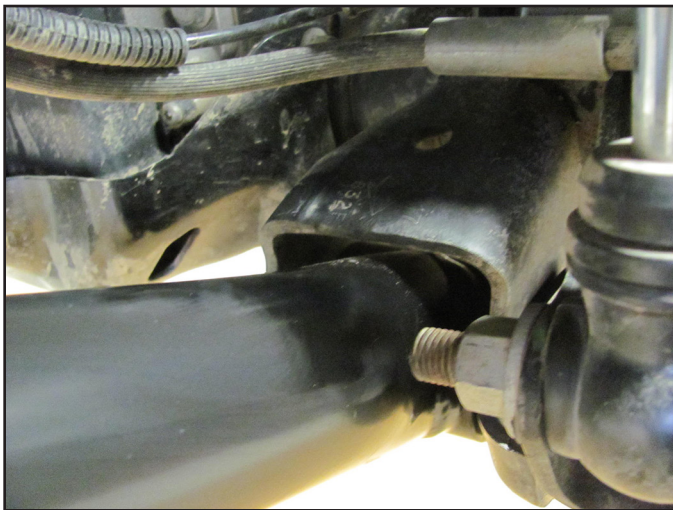
** Asterisk denotes tools that are not required for some applications. Thoroughly read instructions first to determine which tools will be required for your application.*

Installation

- **1. REMOVE ORIGINAL LOWER SUSPENSION ARM**
 - Raise and support the vehicle chassis with jack stands positioned in rear of the front lower suspension arm brackets.
 - Raise the front 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 brake line control arm bracket from the control arm and brake line. These will not be re-used



- Remove the lower suspension arm bolt and nut from the axle mount. Retain the original mounting hardware.
- Remove the bolt and nut from the chassis rail bracket. Retain the original mounting hardware.
- Remove the original lower suspension arm from the vehicle.
- The factory shock bolts may need to be cut shorter to clear the larger JKS control arms. Using a cut off wheel to cut off the unthreaded end of the bolt if it interferes with the LCA.



- Proceed to step 2. Complete installation on one side before starting other side.

❑ 2. SET CONTROL ARM LENGTH

- Determine the ideal arm length for your application by considering factors such as:
 - ➔ Tire Clearance
 - ➔ Steering Clearance
 - ➔ Pinion Angle / Caster
 - ➔ Factory length is 24"
 - ➔ Max. length is 25 3/4"
- **Set both control arms to the same length.** Lengthening the arms will increase caster.

❑ 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 rubber bushing end mounts to the axle.
- Mount the control arm to the axle housing bracket. Install the original mounting bolt and finger tighten the nut. DO NOT torque mounting hardware until instructed.
- Mount the control arm to the frame rail bracket so the grease fitting is up on the flex eye. Install the original mounting bolt and nut. Finger tighten the bolt.



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

❑ 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.
- Using a torque wrench, tighten all mounting hardware to 103 ft-lbs plus 145 degrees.
- Tighten jam nuts using JKS1695 or equivalent.

❑ 5. POST-INSTALLATION INSTRUCTIONS

- Installing longer lower control arms will affect the vehicle alignment by adding more caster. This may also slightly affect the steering wheel position, making it off-center. It is important that the steering wheel is centered to avoid adverse affects on the vehicle's electronic stability control (ESC) system. JKS recommends having the alignment check by a qualified alignment shop.
- Check mounting hardware for proper torque.
- Check hardware after 500 miles of use.

Maintenance

Control arm flex ends should be greased regularly as part of vehicle maintenance schedule or after every 4-wheeling trip. Lubricate using marine grade grease. Rubber bushings require no maintenance.

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