



SYNERGY MFG. 870 INDUSTRIAL WAY, SAN LUIS OBISPO, CA (805) 242-0397

## PPM-8153 TJ/LJ/ZJ/XJ HD ADJUSTABLE LCA

Version 2.0

### GENERAL NOTES:

- These instructions are also available on our website; [www.synergymfg.com](http://www.synergymfg.com). Check the website before you begin for any updated instructions and additional photos for your reference.
- These control arms are adjustable to help compensate caster and driveline angles on lifted Jeep vehicles.
- The installation of these control arms will allow you to correctly align the axles after a suspension lift kit is installed.
- These control arms feature a double adjuster sleeve which allows you to adjust the length of the arm without removing the arm from the vehicle.

### Installation:

1. The control arms come assembled to the shortest length. Make any length adjustments by only turning the adjuster sleeve so there is equal thread on the flex joint and adjuster sleeve. Make sure the grease zerk on the flex joint is aligned with the pinch bolt on the control arm.
2. We recommend that you preset the length of the lower control arms. For 3-4.5" of lift, we recommend a length of 16" measured from the center to center of the bushings. This length works well when using the stock length upper control arms and for longer upper control arms when using a CV style rear drive line. If you need to point the pinion up to use a CV style rear driveline, try to only lengthen the upper arms and leave the lowers at 16".
3. Remove the existing lower control arms. If you are just replacing the lower control arms, they can be replaced one at a time with the vehicle sitting on level ground, without removing the tires & wheels or any other suspension part.
4. Install the new control arms with the bushing at the axle end and the flex joint at the frame end. Position the arm with the pinch bolt and the grease zerk in the flex joint on the top of the control arm. Reuse the factory mounting bolts.



5. Be sure to orient the arm so that the flush side of the offset notch at the axle end is positioned closest to the ground. This allows for greater droop travel and a smooth surface to slide over rocks and terrain. See picture below for reference.



6. Tighten the factory control arm bolts to 125 ft-lbs. Once final length adjustments are made, be sure the Johnny joints are neutral at ride height and tighten the pinch bolt to 80 ft-lbs. Put a wrench on the adjuster sleeve at this time and try to move the adjuster. Make sure pinch bolt has adequately clamped onto Johnny Joint shank so

that the adjuster is not movable. If movable, increase torque on pinch bolt but do not exceed 90 ft-lbs.

Installation is Complete