



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

PPM-8151 – TJ/LJ/ZJ/XJ FRONT UPPER CONTROL ARMS

V2.0

GENERAL NOTES:

- These instructions are also available on our website; www.synergymfg.com. Check the website before you begin for any updated instructions and additional photos for your reference.
- The installation of these control arms will allow you to correctly align the front axle after a suspension lift is installed.
- These control arms feature a double adjuster sleeve which allows for precise adjustment of arm length without removal from vehicle.
- Arms should be installed with both adjuster sleeve and control arm yoke fully threaded into arm.

PARTS LIST:

• PART NUMBER – PART DESCRIPTION

- (2) 815101 TJ Front Upper Control Arm (Fully assembled with pinch bolt hardware and zerk fittings installed)

Parts / Tools Needed to complete installation:

- Basic simple hand tools.

APPROXIMATE INSTALL TIME: 1-2 HOURS

INSTALLATION:

- 1) The control arms should come assembled at their shortest length. Make any length adjustments by only turning the adjuster sleeve so there is equal thread on the flex joint and adjuster sleeve.
- 2) We recommend presetting the length of the upper control arms. Start the upper control arms at the factory length of 15”.
- 3) Remove the existing upper control arms. If you are just replacing the upper 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 flex joint at the frame end and the adjustable end at the axle end. Position the arm with the pinch bolt and the grease zerk in the flex joint on the bottom of the control arm as shown below. Reuse the factory mounting bolts.



- 5) For 3-4.5" of lift, we recommend a lower control arm length of 16". Adjust the upper control arms to get the correct amount of caster, usually 4-6 degrees.
- 6) An upper control arm length of 15-1/8" is recommended when using a lower control arm length of 16". This should set caster at approximately 5.5 degrees for a 3" lifted jeep at ride height.
- 7) Tighten the factory control arm bolts to 55 ft-lbs. Make sure the vehicle is at ride height before tightening the bushing end of the control arms. Once final length adjustments are made, 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 the shank of the control arm yoke so that the adjuster is not movable. If movable, increase torque on pinch bolt but do not exceed 90 ft-lbs.
- 8) Grease the flex joint using a quality chassis grease like [Synergy 4119 High Performance Grease](#).
- 9) Recheck torque after 100 miles of driving.

Installation is Complete