



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

8551 DODGE HD ADJUSTABLE LOWER CONTROL ARM 4X4 DODGE 1500, 2500, 3500

Version 3.0

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 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. The working length on these arms ranges from 18.375" to 20.125"
 - The correct bushing sleeve will need to be installed for the bolts used by the factory on the truck. 14mm, 16mm and 18mm sleeves are included.
1. The control arms are the same left and right.
 2. 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.
 3. Reuse the factory mounting bolts. We recommend installing the axle end control arm bolts from the inside so there is minimal rock damage to the exposed thread on the end of the bolt.
 4. The control arms come assembled to the shortest length. Make any 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. (Should be pointed up towards the chassis)



5. We recommend presetting the length of the lower control arm. For 3" lift, we recommend a length of 19" measured from center to center of the bushings. This length is a good starting point when using the stock length upper control arms. The final length should be adjusted to get the correct amount of caster. Approximately 3-5 degrees is the factory spec. We suggest shooting on the higher end of the range for improved straight line tracking and vehicle return to center.
 - NOTE – The max safe working length of these control arms is 20.125" Any longer and the pinch bolt will not effectively clamp on the Johnny Joint shank.
6. 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.
7. Tighten the factory control arm bolts to the following specs, depending on size.
(Note, do not torque until vehicle is sitting at ride height)
 - 14mm (9/16" bolts) – 125 ft-lbs
 - 16mm (5/8" bolts) – 145 ft-lbs
 - 18mm (3/4" bolts) – 200 ft-lbs

Installation is Complete