



## **Cognito Motorsports, Inc. Heavy Duty Front Sway Bar End Link Kit for 6&8 Lug GM Trucks and SUV's**

### **Introduction**

- Installation requires a qualified mechanic.
- Read instructions carefully and study the pictures (if included) before attempting installation.
- Check the parts and hardware packages against the parts list to assure that your kit is complete.
- Always wear safety glasses when using power tools.

### **Parts List**

- (2) Sway bar end link, length will depend on application
- Hardware package #9095
  - (2) 5/8" flat washer
  - (2) 5/8" locknut
  - (2) 1/2-13x2-3/4" hex bolt
  - (4) 1/2" flat washer
  - (2) 1/2" locknut
  - (2) 7/16"-14x2-1/2" hex bolt
  - (4) 7/16" USS high strength flat washer
  - (2) clevis with stud, 1/2-13x2"
  - (4) polyurethane end link grommet 4802
  - (2) polyurethane hourglass bushing 2202
  - (2) 5022 crush sleeve, 3/4x.120x1-1/2"

### **Installation Instructions**

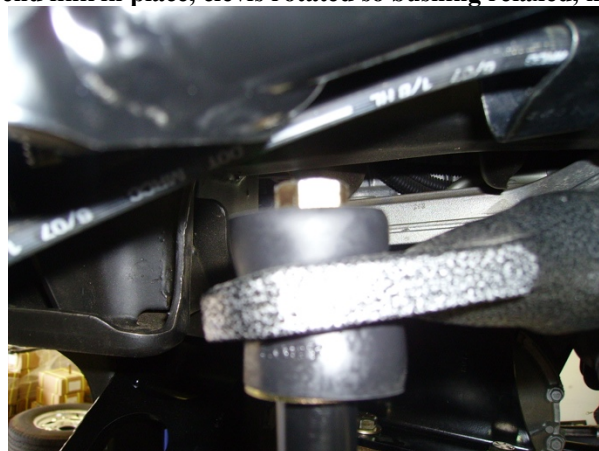
1. Remove the existing sway bar end links.
2. Insert the stud end of the clevis through the original sway bar end link hole in the lower control arm. Fasten with a 5/8" flat washer and lock nut, but do not completely tighten at this time.
3. Clean the threaded holes of each end link out with brake cleaner, and then blow dry with compressed air. This is to ensure there are no obstructed threads and to clean any oil out so thread locker will be effective.
4. Use a drop of thread locker, not included, on each threaded bolt hole.
5. Lube with wd-40 and press each hour glass bushing into the loop on each sway bar end link. Then press the steel crush sleeve into the hour glass bushing.
6. Fasten the loop end of the sway bar end link into the clevis bracket with the 1/2" hardware provided.
7. Twist the clevis until the top side of the end link lines up close to the hole in the sway bar. Tighten the 5/8" lock nut on the bottom side of the control arm while securing the clevis from twisting during tightening. Fasten to 70 ft/lbs of torque.
8. There is one washer to fit in between each bushing and the bolt head, and also each bushing and the sway bar end link. The small end of the bushings will fit inside the hole on the sway bar. Bushings will sandwich the sway bar.
9. When tightening the bolts, do not over tighten. Only tighten the bolts until the bushings start to crush and expand. This will allow articulation of the joint. Over tightened bolts will lead to premature breakage of the bolts.
10. Now tighten the 1/2" hardware to 60 ft/lbs of torque.



**Figure 1: Clevis in lower a-arm, don't tighten yet.**



**Figure 2: end link in place, clevis rotated so bushing relaxed, now tighten.**



**Figure 3: Bushings swell slightly when tightened properly. Don't over tighten.**

## **Cognito Motorsports**

### **Limited Lifetime Warranty**

Cognito Motorsports warrants, to the original retail purchaser, that its suspension products are free from defects in workmanship and material for as long as the purchaser owns the vehicle on which the product was originally installed. Cognito Motorsports does not warrant the product for finish, alterations, modifications, and/or original installation contrary to specifications of Cognito Motorsports. Cognito Motorsports suspension products are not designed nor intended to be installed on vehicles used in race applications or for racing purposes or for similar activities involving abnormal abuse other than the vehicle was originally designed to handle or endure. (A "RACE" is defined as any contest between two or more vehicles, and/or contest of one or more vehicle against the clock, whether or not such contest is for a prize.)

This warranty is for a one-time replacement of each Cognito Motorsports product and does not cover any part that Cognito Motorsports has previously replaced under this warranty. This warranty does not include coverage for police or taxi vehicles, race vehicles, or vehicles used for government or commercial purposes. Also excluded from this warrant are sales outside of the United States of America. Alterations to the finish of the parts including but not limited to painting, powder coating, plating, and/or welding will void all warranties. Cognito Motorsports obligation under this warranty is limited to the repair or replacement, at Cognito Motorsports option of the defective product. Any and all costs of removal, installation or re-installation, freight charges, incidental or consequential damages are expressly excluded from this warranty.

This warranty excludes the following items: bushings, bumpstops, tie-rod ends, limiting straps, and heim joints. These parts are subject to wear and are not considered defective when worn. They are warranted for 60 days of purchase for defects in workmanship. Cognito Motorsports suspension components must be installed as a complete system. Any substitutions or exemptions of required components will immediately void the warranty. Some finish damage may happen to parts during shipping and is not covered under warranty. This warranty shall not apply to any product that had been subject to accident, negligence, alteration, abuse, or misuse. Cognito Motorsports does not warrant products not manufactured by Cognito Motorsports. Cognito Motorsports reserves the right to supersede, discontinue, or change the design, finish, part number and/or application of parts when deemed necessary by Cognito Motorsports without written notice, and in the sole and absolute discretion of Cognito Motorsports.

### **Warranty Claims**

All warranty claims must be submitted through the original company of purchase. All claims must be shipped back to the original company of purchase with an approved RMA number listed as a reference on the shipping label and clearly printed on two opposing sides of the package(s); product in question must be inspected by Cognito Motorsports before replacement parts are shipped out.

### **Return Policy**

Cognito Motorsports has a no refund return policy. Under special circumstances, returns might be accepted with prior written approval. All returned product will be shipped freight prepaid. Product returned is subject to a 25% restocking fee. No returns will be accepted after 30 days upon receipt of product.

### **Product Consumer Safety and Warning**

The installation of this kit will modify the suspension of your vehicle and may cause it to handle significantly different than a factory equipped vehicle. Installing larger tires with modified suspension and increased ground clearance will significantly alter the handling characteristics of the vehicle, and may result in increased braking distances as well as changes in vehicle maneuverability and handling compared to the factory equipped vehicle. As with any vehicle, extreme caution and care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts and drive safely, recognizing the reduced speeds and specialized driving techniques is required.

This suspension system will not strengthen nor reinforce the stock frame of the vehicle, nor will it increase rollover protection. It is necessary to periodically inspect all suspension and drive train components for tightness of fit or any damage. Installation of these parts will modify the height of the vehicle and will raise the center of gravity. Altered height modifications and off-road operation may increase your vehicle's susceptibility to roll over conditions and may cause serious injury or death. Many states regulate the height modification to each vehicle. Check the laws in your state for exact specifications. Height modifications may affect the reaction, ride, handling, and wear factor of your vehicle's components.

**Failure to drive this vehicle safely may result in injury or death!** Do not drive this vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications and combinations of modifications are not recommended, unsafe, and may not be permitted in your state. Consult your vehicle owner's manual, the instructions accompanying this product, and your state laws before undertaking these modifications. The owner of the modified vehicle and the qualified mechanic required to install this product are responsible for the legality and safety of the vehicle being modified.