

## Cognito Heavy-Duty Front Sway Bar End Link Kit

**INSTALL INSTRUCTIONS:**

Cognito Heavy-Duty Front Sway Bar End Link Kit  
 SKU: 110-90252/110-90253/110-90255/110-90256

**PARTS LIST FOR SKU: 110-90252**

QUANTITY	PART #	DESCRIPTION
2	5444	5" Heavy Duty Sway Bar End Link
1	HP9095	Hardware Package

**PARTS LIST FOR SKU: 110-90253**

QUANTITY	PART #	DESCRIPTION
2	5445	9" Heavy Duty Sway Bar End Link
1	HP9095	Hardware Package

**PARTS LIST FOR SKU: 110-90255**

QUANTITY	PART #	DESCRIPTION
2	5446	12" Heavy Duty Sway Bar End Link
1	HP9095	Hardware Package

**PARTS LIST FOR SKU: 110-90256**

QUANTITY	PART #	DESCRIPTION
2	5447	15" Heavy Duty Sway Bar End Link
1	HP9095	Hardware Package

**PARTS LIST FOR SKU: HP9095**

QTY	PART #	DESCRIPTION
1	HP9095-1	Sub Hardware pack
2	5022	Crush Sleeve
2	5342	Clevis With Stud
4	POLY-ENDLINK-4802G	End Link Grommet for Bolt
2	POLY-HOURLASS-2202	Black Hourglass Bushing

**PARTS LIST FOR SKU: HP9095-1**

QTY	PART #	DESCRIPTION
2	HARDWARE-33090	5/8 Flat Washer
2	HARDWARE-37272	5/8-11 Lock Nut
2	HARDWARE-15214	1/2-13 Bolt
4	HARDWARE-33086	1/2 Flat Washer
2	HARDWARE-37268	1/2-13 Lock Nut
2	HARDWARE-15163	Hex Head Cap Screw
4	HARDWARE-33860	Flat Washer


**WARNING**

Please read this entire instruction sheet before beginning installation. Proper installation of these components requires a qualified mechanic. Always wear safety glasses when using power tools, and take appropriate precautions when working under a vehicle. If these instructions are not properly followed you may jeopardize your, and your passenger's safety, and severe frame, suspension or tire damage may also result from improper installation.

Modification of vehicle suspension can interfere with ride-height sensors, active suspension, lane departure features, semi-autonomous, and autonomous driving features. It is the responsibility of the mechanic to determine feature compatibility prior to installation. Recalibration of sensors may be required in the event of any modification.



## INTRODUCTION

Thank You for purchasing the Cognito Heavy-Duty Front Sway Bar End Link Kit.

These end links are also a little longer than OE recommended lengths to allow clearance for our Larger Diameter tie-rod upgrade. Used as a Heavy-Duty replacement of the OE style end links which are notorious for breaking. Our Sway bar link kits utilize a lower clevis system which takes some of the angle off of the link when the suspension is cycling.

Minimizing stress that can cause breakage. While we often upgrade other manufacturers kits with these links. We recommend you check your current length and match it up to the specs to help order the correct size if you do not have a Cognito Motorsports lift. Sold in pairs. Made in the USA.

## REQUIREMENTS

- Installation requires a qualified mechanic.
- Follow the OE specifications when replacing or re-installing OE fasteners, retainers, and hardware specified in the OEM manual.
- Always wear safety glasses when using power tools.
- When a lift is required to perform the installation of these products and always ensure the vehicle is properly supported before attempting installation or serious injury may occur.

## TECH NOTES

- Read instructions carefully and study the pictures (if included) before attempting installation.
- If this product was purchased as part of a bundle/package. Familiarize yourself with each set of instructions included with the bundle/package before beginning.
- Check the parts and hardware packages against the parts list to assure that your kit is complete before starting.
- Not compatible with 2007 Classic body style models (2007 Classic style compatible with 99-06 model components).
- Mounting surface to mounting surface measurement for this kit is 7 Inch (Measured from top of lower control arm up to the bottom of sway bar).

## INSTALLATION

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.



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

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 and press each hourglass bushing into the loop on each sway bar end link. Then press the steel crush sleeve into the hourglass bushing.
6. Fasten the loop end of the sway bar end link into the clevis bracket with the  $\frac{1}{2}$ " 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.



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

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 ½" hardware to **60 ft/lbs** of torque.



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



## WARRANTY / RETURN POLICY / SAFETY

### Cognito Limited Lifetime Warranty

Cognito Motorsports, Inc. hereinafter “Cognito,” warrants to the original retail purchaser, that its suspension products are free from workmanship and material defects for as long as the purchaser owns the vehicle on which the product(s) were originally installed. This warranty will be void if any modifications are made to the components, including alterations to the surface finish, i.e.; painting, powder coating, plating, and/or welding, or if they are improperly installed. Cognito truck suspension products are not designed nor intended to be installed on “competition” vehicles used in race applications, stunt or for exhibition purposes that are outside of the intended operating conditions specified by the manufacturer. Racing and competition are defined as any contests between two or more vehicles; or vehicles competing individually on off road circuits in timed events (whether or not such contests are for an award or prize).

This warranty does not include coverage for police, taxi, government or commercial vehicles, and the warranty does not cover Cognito products sold outside of the USA. Cognito’s obligations under this warranty are specified and applied at its sole discretion, and warranty coverage is limited to repair or replacement of the defective product(s). Any and all costs of removal, installation or reinstallation; freight charges, incidental or consequential damages associated with the covered products are expressly excluded from this warranty.

The following items are exempt from Cognito limited warranty coverage: bushings, bump stops, tie-rod ends (Heim joints) and limiting straps. These parts are “consumables” and designed to wear as a normal part of their duty cycle, therefore they are not considered defective when worn. The aforementioned products are warrantied separately against defects in workmanship, for 60 days from the date of purchase. As a condition of warranty validation, respective Cognito suspension components must be installed as a complete system (not combined with non-Cognito hardware or ancillary parts). Any substitutions or omission of required components will void the warranty. Some minor cosmetic wear and imperfections may occur to parts during shipping, which is not covered under this warranty. This limited warranty does not apply to any components that have been subjected to collision damage, negligence, alteration, abuse, or misuse, and coverage does not extend to products manufactured by third-party companies. Cognito reserves the right to supersede, discontinue, or change the design, finish, part number and/or application of its parts when deemed necessary, without notice.

### Return Policy

Product returns will not be accepted without prior written approval from an authorized Cognito representative. All products being returned must be shipped via trackable, prepaid freight. Returned products are subject to a 25% percent restocking fee. The eligible return period for products purchased directly from Cognito is 30 days from the verified date when the product(s) were originally received by the purchaser.

### Product Safety Advisory

The installation of Cognito steering and suspension components will modify your vehicle’s original factory equipment and geometry, which may cause it to handle differently than a stock (unaltered) vehicle. Installation of these components is not intended to strengthen nor reinforce the vehicle’s frame, nor are they designed to increase rollover protection. It is necessary to periodically inspect all suspension and drive train components for proper attachment, torque specifications, operation, and for any potential unusual wear or damage. Installation of these parts will modify the height of the vehicle and may raise the center of gravity. Modifying vehicle height combined with off road operation may increase your vehicle’s susceptibility to rollover conditions, which may cause serious injury or death. Many states regulate allowable vehicle height modifications, and it is your responsibility to know and comply with the legal requirements specified by the laws where you reside. Modifications to your vehicle’s ride height may also affect the ride quality, driver input response, trackability and handling, and wear to your vehicle’s suspension components and tires.