



Cognito Economy Traction Bar Kit 11-19 Silverado/Sierra 2500/3500 2WD/4WD

INSTALL INSTRUCTIONS:

Cognito Economy Traction Bar Kit 11-19 Silverado/Sierra
2500/3500 2WD/4WD
SKU: 110-90271/102-90272

**PARTS LIST FOR SKU: 110-90271/110-90272**

QTY	PART #	DESCRIPTION
2	1218	Bracket Traction Bar Frame Mount
2	8329	Traction Bar Rear Mount U-bolt Clamp
1	HP9146	Traction Bar Hardware Pack
2	8134	Traction Bar 48"(110-90271 only)
2	8286	Traction Bar 53"(110-90272 only)

PARTS LIST FOR SKU: HP9146

QTY	PART #	DESCRIPTION
8	HARDWARE-33086	Flat Washer
4	HARDWARE-37268	Lock Nut
2	HARDWARE-36266	Jam Nut
2	HARDWARE-15215	1/2-13X3 Head Cap Screw
2	HARDWARE-15221	1/2-13X4.5 Head Cap Screw
1	HARDWARE-0150959	Anti-Seize Lubricant
2	5012	Crush Sleeve
4	POLY-BUSHING-2130G	Polyurethane Bushing
4	5001	1.0X.180X.480 Crush Sleeve
2	RODEND-CMT-12-8	Rod End

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 Economy Traction Bar Kit.

Designed to help prevent axle wrap this traction bar kit features FK rod ends at the axle and polyurethane bushings at the frame. Durable semi-gloss black powder coat finish. Made in the USA.

Foot-pound readings are listed on the Torque Specification Chart at the end of the instructions.

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.

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.

INSTALLATION

1. Support the rear axle appropriately, working on the driver side first, with the passenger side still together. Remove the driver side u-bolt nuts. Then bolt on one of the Cognito traction bar axle brackets, it will get sandwiched in between the factory u-bolt axle plate and the washers and u-bolt nuts as seen in **Figures 1 and 2**. Torque the u-bolt nuts according to the chart below. Then repeat for passenger side.
2. From the hardware package, insert the polyurethane bushings into the front end of the traction bar tubes. Apply a small amount of grease on the inside of the poly bushings, then push the crush sleeves into the poly bushings, this will be a tight fit and required tapping with a rubber or plastic mallet.
3. Thread the jam nuts onto the rod ends. Apply some anti-seize lubricant to the threads of the rod ends and thread them into the rear ends of the traction bar tubes leaving about **3/8"** of thread showing so that there is room for adjusting later.
4. Mount the front frame brackets to the front ends of the traction bar tubes with the **1/2"** hardware included. Mount the spacer sleeves in between the rod end and the rear end housing bolt on brackets with the **1/2"** hardware included, see **Figures 1 and 2**.

Figure 1.



Figure 2



5. With the truck on the ground and at ride height, position the front frame bracket to the underside of the frame. Verify the position is satisfactory and clean the undercoating from the frame using solvent or brake cleaner on a rag. Repeat for both sides of the vehicle. See **Figure 3**.
6. VERY IMPORTANT! Get a friend to help by having them hold a piece of sheet plastic or sheet metal to shield the fuel tank and any other items that might get weld spatter on them, to protect them from spatter, including the shock shafts. Weld the frame brackets to the underside of the frame as shown in **Figure 3**. Start by tack welding them into place, and then disconnect the traction bar from the bracket so it is out of the way to complete the welding procedure. Weld across the front and rear of the brackets. Paint all exposed metal surfaces after welds have cooled.

Figure 3.



7. Bolt traction bars back into place. Tighten hardware to specs below.
8. At ride height, the length of the traction bar must be correct so that it is not binding with the leaf springs. To check this, make sure the truck is at normal ride height. Unbolt either end of the traction bar, both sides. The mounting holes of the bar should line up with the brackets. If not, adjust length and re-fasten.

Torque Specification Chart

1/2" Bolts	70 Ft.-Lbs.
3/4" Jam Nut	100 Ft.-Lbs.
5/8" U-bolts	100 Ft.-Lbs.
3/4" U-bolts	120 Ft.-Lbs.



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.