



Cognito HD Fixed Track Bar for 2017-2022 Ford Super Duty F250/F350 4WD Trucks

INSTALL INSTRUCTIONS:

Cognito HD Fixed Track Bar for 2017-2022 Ford Super Duty
F250/F350 4WD Trucks
SKU: 120-90947

PARTS LIST FOR SKU: 120-90947

QUANTITY	PART #	DESCRIPTION
1	8770	FSD TRACK BAR
2	UNI-BALL- COM16T-F2	COM16T-F2 UNIBALL
2	HARDWARE- IRR-1.75	1.75" INTERNAL RETAINING RING, YELLOW ZINC
1	HP9293	COM FSD TRACK BAR PIN KIT

**PARTS LIST FOR SKU: HP9293**

QUANTITY	PART #	DESCRIPTION
2	6222	1" FSD HEIM BUSHING
1	6692	FSD TRACK BAR PIN COM16
1	6693	1" COM SPHERICAL WASHER
2	6694	1" FSD COM SPACERS
1	HARDWARE- 0161379	1/2"-20 x 1" 12 POINT BOLT
1	HARDWARE- 33626	1/2" ZINC SPLIT WASHER
1	HARDWARE- NYLOCK-3/4-16	3/4"-16 GR. 8 NYLOCK NUT
1	HARDWARE- 33092	3/4" SAE ZINC 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.



INTRODUCTION

The Cognito fixed track bar kit provides a heavy-duty solution designed for trucks with a 2-3" lift or leveling kit. Two large 1" uni-balls bearings are used at the chassis and axle connections for unparalleled strength and to eliminate unwanted flex in the suspension system. The powder coated bar is made from large diameter and thick wall DOM tubing. Length of track bar was design to work with trucks utilizing a 2-3" lift or leveling kit to easily center the axle under the chassis.

TECHHNICAL INFORMATION

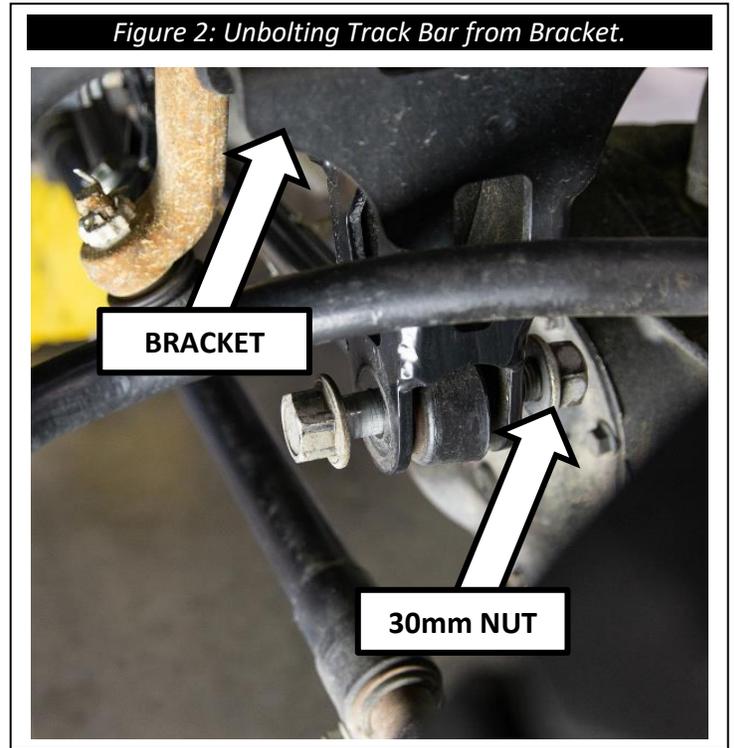
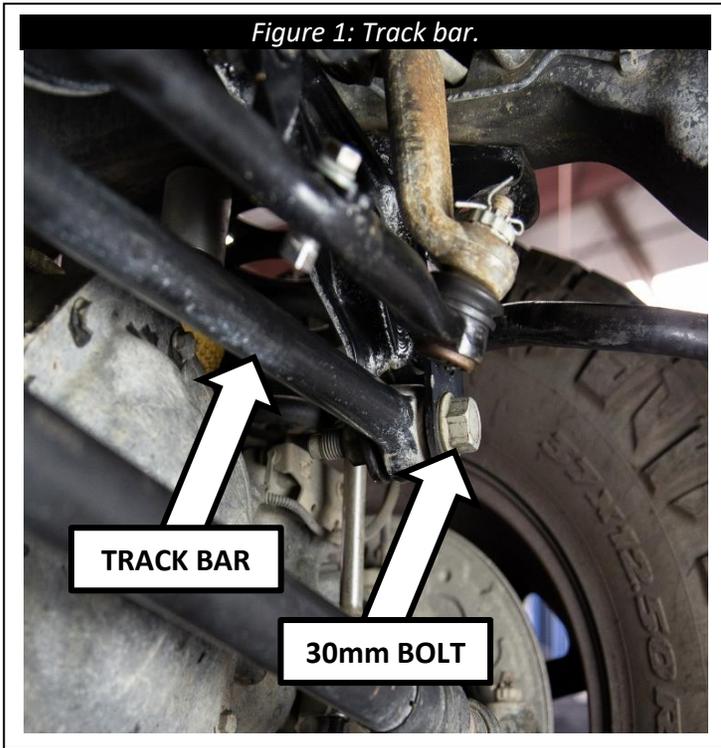
- Installation requires a qualified mechanic.
- Follow the OE specifications when replacing or re-installing OE fasteners, retainers, and hardware specified in the OEM manual.
- Always wear safety glasses when using power tools.
- When a lift is required to perform the installation of these products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

REQUIREMENTS

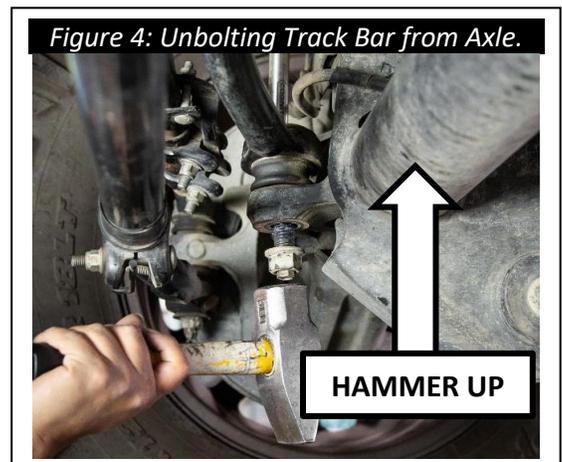
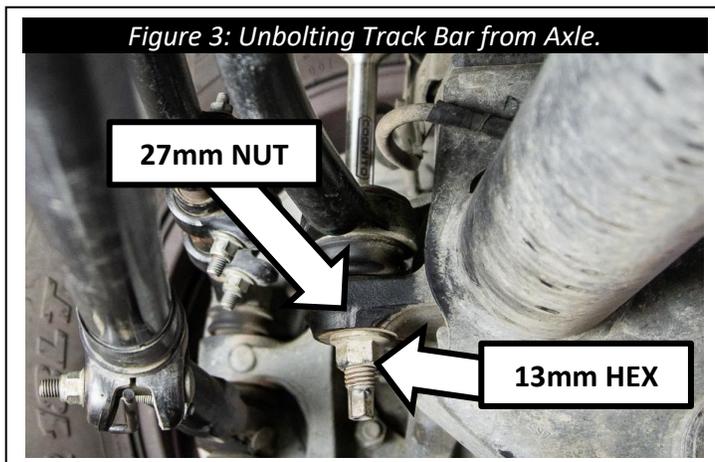
- Read instructions carefully and study the pictures (if included) before attempting installation.
- If this product was purchased as part of a kit each kit, and options to kits, are packaged separately. Therefore installation procedures are covered in separate instructions. Familiarize yourself with each specific set of instructions before beginning.
- Check the parts and hardware packages against the parts list to assure that your kit is complete before starting.
- Tools Needed: Ratchets, Sockets /Wrench (30mm, 27mm, 13mm, 1/2" 12-point), Torque Wrench, Impact Gun, Sledgehammer
- Optional Tools: Torch, Rachet Strap, Car Jack

INSTALLATION

1. All hardware will be reused, retain all removed hardware.
2. Remove the track bar to bracket bolt with a 30mm socket and 30mm wrench.



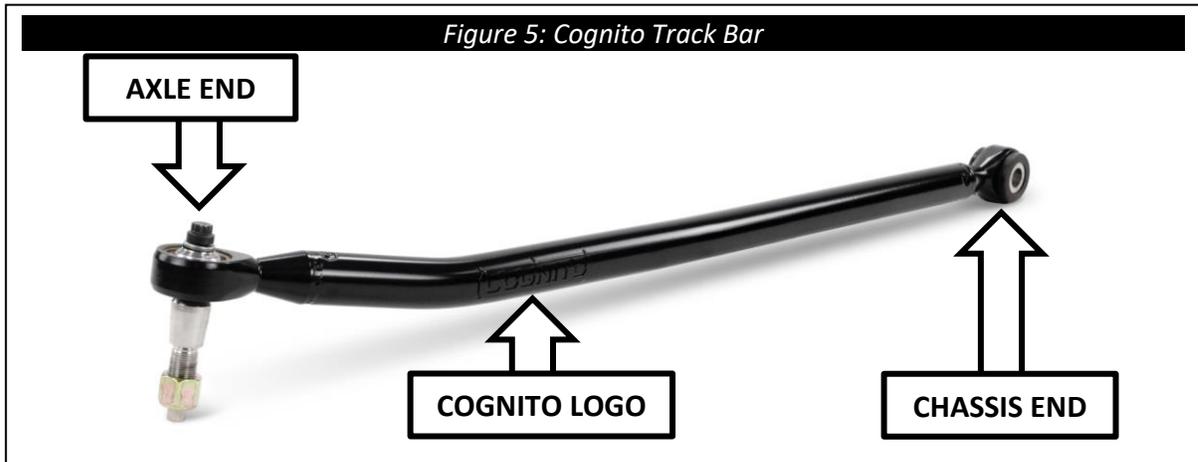
3. Break loose the nut holding the track bar to the axle using a 27mm wrench. Use a 13mm wrench to hold the stud if it starts spinning.
4. Once the joint is unbolted, a sledgehammer can be used to carefully hit the stud upwards until it breaks loose from the tapered seat and is able to be removed by hand. Now take out the OEM track bar and set aside.
 - **NOTE:**
Use of a torch to heat the bolt can help in case if the stud is stuck and hard to knock it out.



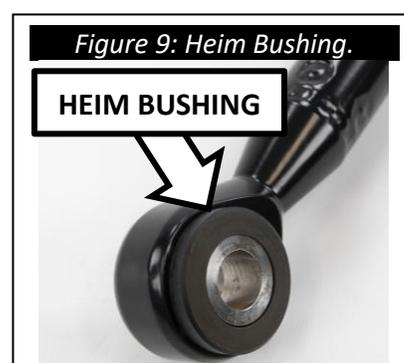
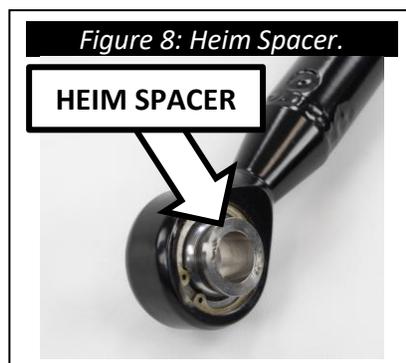
5. Install the taper pin hardware into the axle end of the track bar in the order shown in Figure 6. Apply a drop of Red Loctite to the very end of the threads on the taper pin bolt (threads furthest for the bolt head) before threading it into the taper pin. The tapered portion of the pin should be on the bottom of the track bar as shown in Figure 7. Leave the taper pin bolt finger tight.

- **NOTE:**

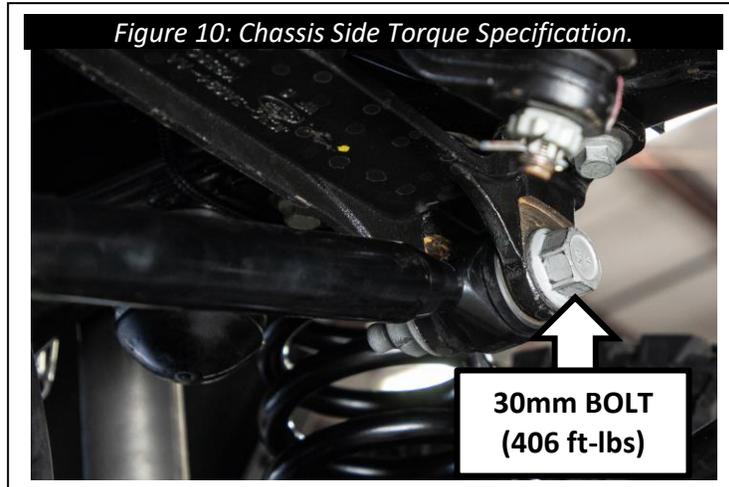
The axle end is the side closest to the Cognito logo badge.



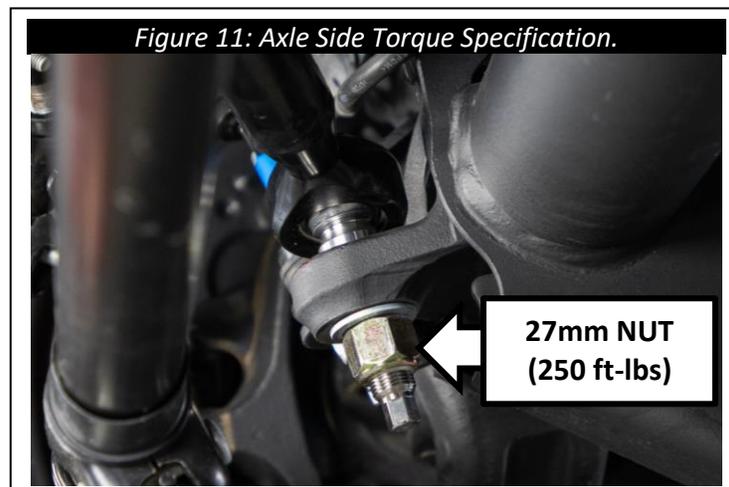
6. Install heim joint spacers and bushing onto chassis side heim joint.



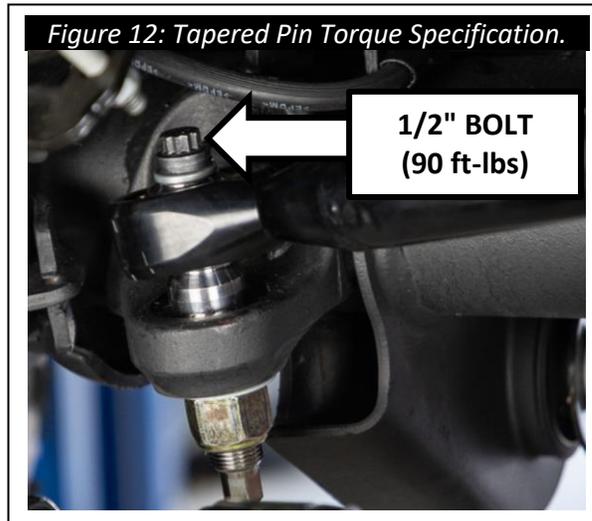
7. Install the track bar chassis side heim joint assembly into the chassis bracket, tighten bolt using the 30mm wrench and torque to 406 ft.-lbs.



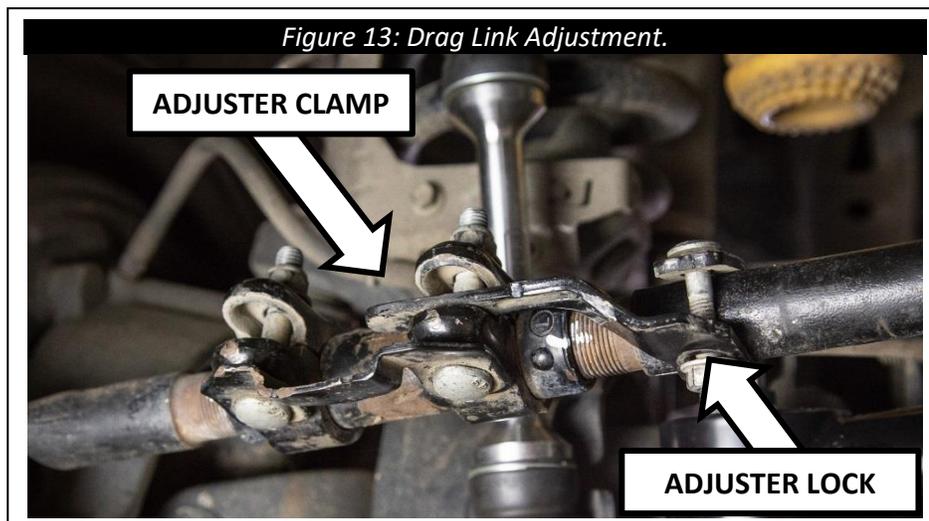
8. To get the axle side of the track bar to install into the axle it may be necessary to shift the axle side to side until the track bar pin will slide into place. The axle can be shifted using a ratchet strap or by lifting or lowering the vehicle with a jack. Once the pin is in place install the washer and nut. Tighten the nut and torque the 27mm nut to 250 ft.-lbs.



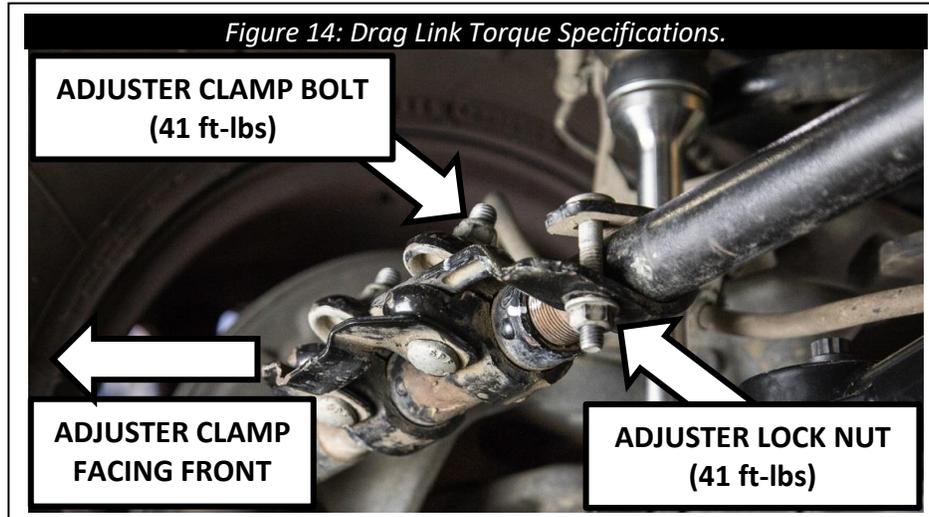
9. Using a torque wrench, torque the 1/2" 12-point taper pin bolt to 90ft.-lbs.



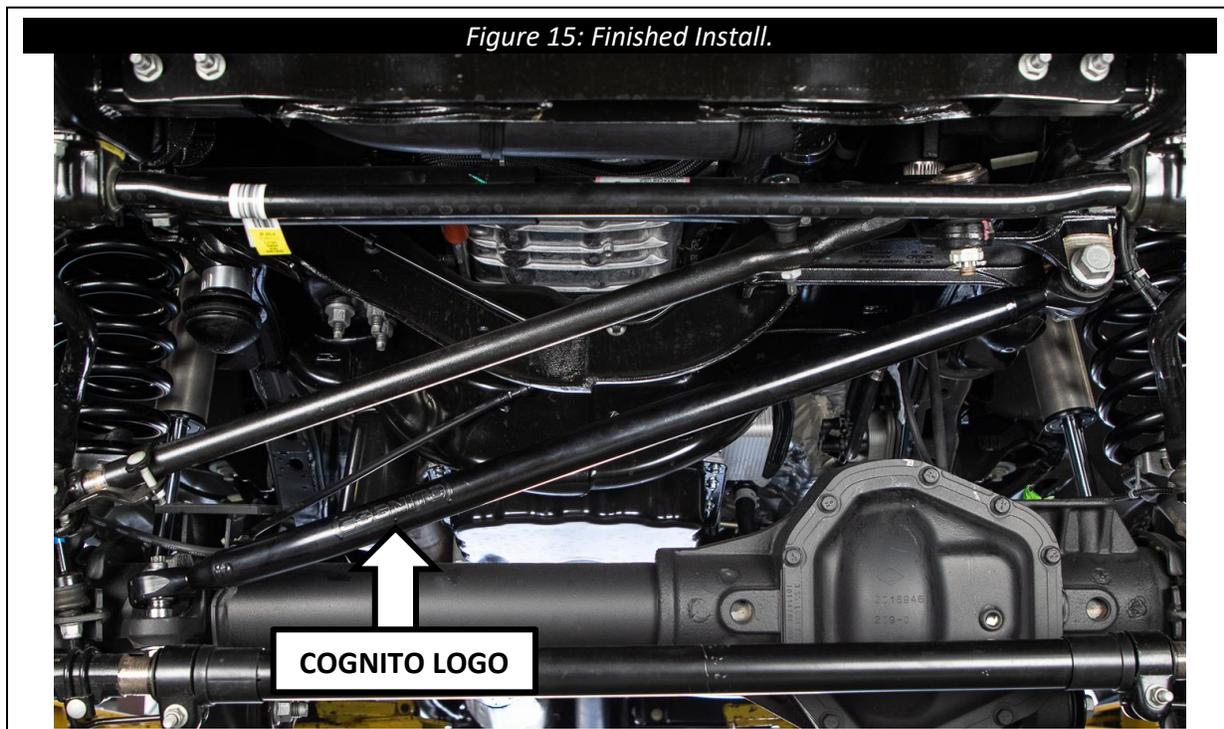
10. The following instructions are to adjust the steering wheel back on center. Make sure the vehicle is in park with the emergency brake activated, then start the engine. Loosen drag link adjuster sleeve and adjuster lock, slide the lock out of the way. Rotate the drag link adjuster in the appropriate direction to center the steering wheel.



11. Make sure the adjuster clamp is facing front of the vehicle. Once the steering wheel is in the proper location, tighten the (2) adjuster clamp bolts to 41 ft.-lbs. Then slide the adjuster lock into position and tighten the (1) locking nut to 41 ft.-lbs. Although, the steering wheel is now straight, the vehicle may still need a proper professional alignment.



12. The final installation of track bar, note the location of the Cognito logo to verify the track bar is installed correctly.





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 warranted 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.