

Extreme Duty Tie Rod And Center Link Kit for 01-10 Silverado/Sierra 2500/3500 2WD/4WD Trucks

INSTALL INSTRUCTIONS:

Extreme Duty Tie Rod And Center Link Kit for 01-10
 Silverado/Sierra 2500/3500 2WD/4WD Trucks
 SKU: 110-90285

PARTS LIST FOR SKU: 110-90285

QUANTITY	PART #	DESCRIPTION
2	5437	GM 8-Lug Outer Tie Rod End 2001-2010 8-Lug
2	5574	GM 8-Lug Inner Tie Rod End Left Hand Threads
2	5575	Tie Rod Adjuster
2	HARDWARE-M22-1.5-HEXNUT	M22-1.5 Class 8 Hex Nut
2	HARDWARE-LHM22-1.5-HEXNT	Left Hand Thread M22-1.5 D Class 8 Hex Nut
1	5579	Centerlink 01-10 GM 8-Lug


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 Extreme Duty Tie Rod and Center Link Kit.

Alloy steel extreme duty center link and tie rods direct bolt in complete replacement for stock center link and tie rod assemblies.

Also converts the stock style inner tie rod joint from a ball and socket axial loaded joint to a radial loaded joint which is significantly stronger and offers more articulation than OE. For use only in OEM position. Not for use with lift kits that use a dropped center link. 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.
- Tools: (if known)

INSTALLATION

1. If there is an existing skid plate and shroud at the front cross member of the vehicle, underneath the front of the engine, they should be removed with a 15mm socket to access the pitman and idler arms and set aside for re-installation later.
2. Remove the nut holding the outer factory tie rod to the spindle with a 19mm wrench. Using a hammer, tap on the spindle boss to dislodge the tie rod from the spindle as shown in Figure 1.



Figure 1. Remove tie rods from spindles.

3. If the truck is equipped with a steering stabilizer, remove bolt from the frame with an 18mm socket and box wrench.
4. Unscrew the factory lock nuts that hold the factory center link to the pitman and idler arms, using a 21mm deep socket, keep to the side.
5. With a puller, remove the factory center link from the pitman and idler arm as shown in Figure 2.



Figure 2. Remove center link with puller.

6. Locate #5579 Center Link, take notice of the tapered holes and that one side of the center link has 1 additional hole for the steering stabilizer.
7. Install onto the pitman and idler arms with the steering stabilizer hole towards the passenger side of the truck, reuse factory lock nuts and torque to 70 ft-lb. ****NOTE**** If you are installing Cognito Motorsports #PISK2008 Steering Braces, refer to installation instructions #7004
8. Insert pre-assembled tie rod to center link taper with new nut and torque to 80 ft-lb as shown in Figure 3. If you already had the TRK100046 installed and are installing the centerlink upgrade TRKCL-UPGRADE-2001GM8, then use the outer tie rod ends and jam nuts that were previously installed on the vehicle, along with the new adjuster and new left hand thread inner tie rod with jam nut.



Figure 3. Center Link and inner tie rod.

9. Make sure the tapered hole in spindle is clean and insert the outer tie rod into the tapered spindle hole. Install new nut and torque to 80 ft-lb.
10. Adjust the tie rods with the center adjuster by using a 1" open end wrench; tighten jam nuts against inner and outer tie rod ends to lock in the length of the tie rod assembly.
11. Grease both the inner and outer joints. Re-grease at every oil change/lube.
12. At wheel full droop, make sure the sway bar does not hit the Heavy-Duty tie rods since they are larger in diameter, all the way through the turning cycle. Longer sway bar end links may be needed.
13. The toe settings of the vehicle will have to be adjusted to factory specs with a professional alignment.



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.