

Cognito Steering Stabilizer Kit with FOX Damper for 2011+ GM 2500/3500 HD Trucks

INSTALL INSTRUCTIONS:

Cognito Steering Stabilizer Kit with FOX Damper for 2011+ GM
2500/3500 HD Trucks
SKU: 210-91333

PARTS LIST FOR SKU: 210-91333

QUANTITY	PART #	DESCRIPTION
1	299-91331	FOX Steering Stabilizer
1	8868	GM HD Steering Stabilizer Crush Sleeve
1	8870	GM HD Steering Stabilizer Bracket for Extended Length Damper
1	HP9358	GM HD Steering Stabilizer Bracket Hardware
1	HP9359	GM HD Steering Stabilizer FOX Damper Hardware

PARTS LIST FOR SKU: HP9358

QUANTITY	PART #	DESCRIPTION
1	HARDWARE- M12X1.75X70-HB	M12-1.75 x 70 Hex Cap Screw
1	HARDWARE- M12X1.75X130-HB	M12-1.75 x 130 Hex Cap Screw
2	HARDWARE-M12- FLATWASHER	M12 Flat Washer
2	HARDWARE- M12X1.75-FLN	M12-1.75 Top Lock Flange Nut

PARTS LIST FOR SKU: HP9359

QUANTITY	PART #	DESCRIPTION
1	7039	FOX Steering Stabilizer Tapered Pin
2	HARDWARE- M12X1.75-FLN	M12-1.75 Top Lock Flange Nut

**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

Thank you for buying the Cognito Steering Stabilizer Kit with FOX Damper. This kit packages everything needed to install FOX's 2.0 IFP universal steering stabilizer in a configuration that is compatible with Cognito's patented Pitman and Idler-arm Support Kit (PISK) SKU 110-90772.

Most steering issues can be solved by installing Cognito's patented PISK, which fixes the inherent flaw in the stock steering by putting the key steering elements (the pitman arm and idler arm) into double shear. However, for those who want to reduce steering feedback from rough roads or larger tires a steering stabilizer is an excellent option.

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.
- Simple and completely bolt on installation for 2016+ model years.
- 2011-2015 model years require cutting off the OEM frame clevis with tabs.
- This kit is compatible with any stock location center link with a steering stabilizer receptacle. Including Cognito's Extreme Duty Center Link and Tie Rod Kit SKU 110-90940.

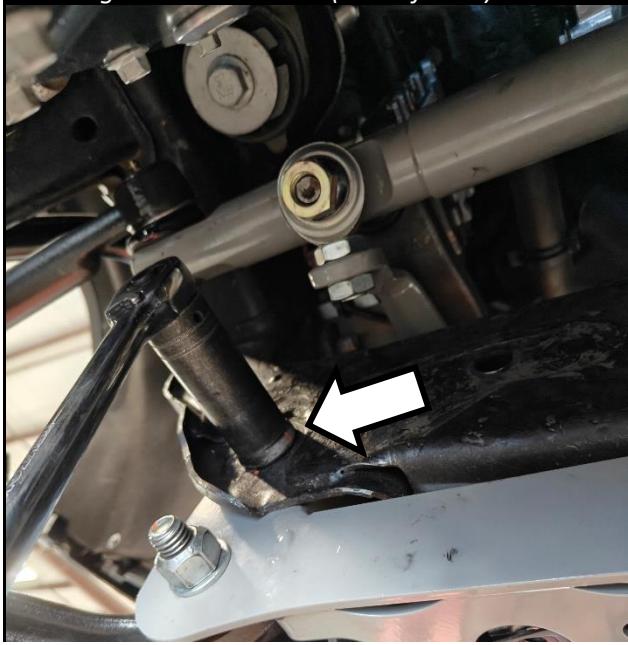
REQUIREMENTS

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

INSTALLATION

1. Safely rack or jack the vehicle off the ground and properly support it, **never work under an unsupported vehicle.**
 - Note: If installing the Cognito Pitman and Idler-Arm Support Kit (PISK), Cognito Extreme Duty Center Link kit, or a Cognito lift kit, **complete those installations before installing the steering stabilizer kit.**
2. Remove the splash guard and skid plate.
3. If the vehicle is a 2011–2015-year truck, then you must first remove the stock damper mounting clevis, located on the front crossmember.
 - Note: Cut the tabs of the clevis off then grind the plate the clevis mounted to until it is flush with the crossmember. **Always recoat any exposed metal to prevent corrosion.**
4. Loosen the driver side front-most lower control arm bolt until the nut is flush with the end of the bolt.
 - Note: If this steering stabilizer kit is installed in addition to a sub-frame lift kit (as is shown in this set of instructions), then this will be the driver side bolt mounting the front crossmember onto the frame.

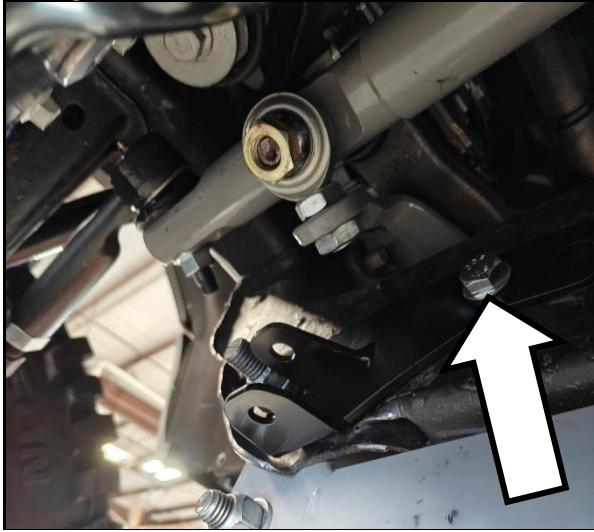
Figure 1: Loosen LCA (or subframe) bolt.



5. Tap the bolt, with a non-marring hammer, rearward until there is enough room to install the steering stabilizer bracket.

6. Install the steering stabilizer bracket and pass the 130mm length bolt, with flat washer, through the bracket and into the cross member.

Figure 2: Install bracket, bolt, and washer.



7. Install the crush sleeve 8868 into the cross member and thread the nut onto the 130mm length bolt hand tight.
 - Note: On some 2011-2019 model year trucks it may be required to clearance the crossmember through hole to allow the crush sleeve to pass through. If that is the case, then use a die grinder to increase the hole's diameter.

Figure 3: Install the crush sleeve and nut.



8. Verify that the steering stabilizer bracket is moved downward as far as possible while it straddles the control arm bolt. Then tighten the lower control arm bolt (or subframe bolt). Followed by the crush sleeve bolt.
 - Torque the M18 control arm/subframe bolt to the factory spec of 133 ft-lb and then an additional 60°. Torque the M12 flanged lock nut to 90 ft-lb.

- Locate the FOX damper and remove the stock crush sleeve on the shaft side of the damper. Install the Cognito tapered pin in its place.

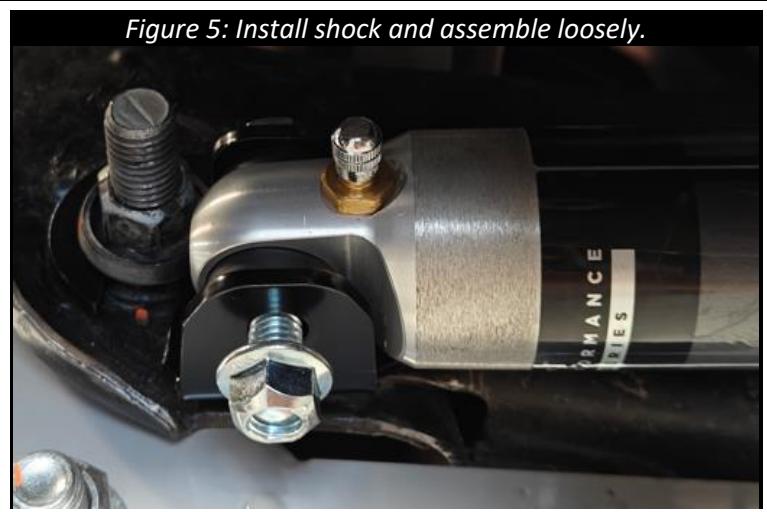
Figure 4: Remove FOX crush sleeve and install the tapered pin.



- Apply anti-seize lubricant to the tapered pin's threads and taper.

- Install the FOX damper (body side) onto the steering stabilizer bracket with the gas fitting pointed to the rear of the truck and assemble the hardware loosely.

Figure 5: Install shock and assemble loosely.



- Compress the FOX damper and insert the tapered portion of the tapered pin into the center link. Install and tighten the locking nuts to 80 ft-lb. Ensure that the pin is well seated into the center link.

- Note: The flat sections (22mm span) of the tapered pin can be used to hold the pin steady while tightening the lock nuts.

- Tighten the hardware mounting the damper to the steering stabilizer bracket (90 ft-lb).

- Lower the vehicle onto the ground and fully cycle the steering to verify clearance.

- Note: If installing the steering stabilizer onto a vehicle without a sub-frame lift, then with the vehicle on the ground loosen then re-tighten the front left control arm bolt to the OE spec (the one retaining the steering stabilizer bracket). This will allow the bonded rubber bushing in the control arm to return to a neutral position. If this step is not taken, then premature wear of the LCA bushing may occur.

- Reinstall the splash guard and skid plate.



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.