

## 1" Rear Leaf Spring Drop Shackle For 2020+ GM 2500/3500 Trucks

### INSTALL INSTRUCTIONS:

1" Rear Leaf Spring Drop Shackle For 2020+ GM 2500/3500 Trucks  
SKU: 110-91267

### PARTS LIST FOR SKU: 110-91267

QUANTITY	PART #	DESCRIPTION
2	8857	Drop Shackle Weldment
1	HP9342	Drop Shackle Hardware Pack

### PARTS LIST FOR SKU: HP9342

QTY	PART #	DESCRIPTION
2	7009	Shackle Crush Sleeve
4	POLY-BUSHING-2757	Black polyurethane Bushing
2	HARDWARE-GREASE-ZERK-45	¼-28 45 Degree Grease Zerk



### 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 installer to determine feature compatibility prior to installation. Recalibration of sensors may be required in the event of any modification.



## INTRODUCTION

The Cognito 1" Drop Shackle for GM 2500/3500 trucks lowers the rear ride height by approximately 1", allowing you to dial in your truck's rake to meet your preferences. Made from quarter-inch steel plate and utilizing polyurethane pivot bushings, the Cognito drop shackle provides an improved ride quality over the vulcanized bushing found on OEM shackles.

## TECH NOTES

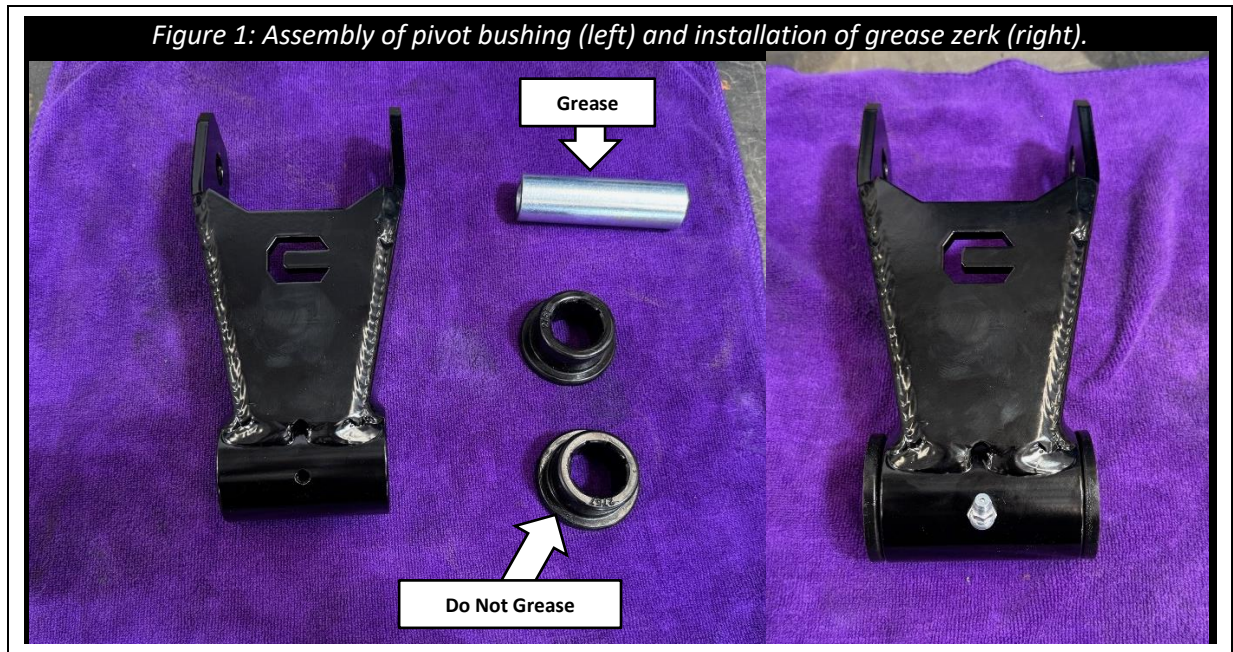
- Read instructions carefully and study the pictures before attempting installation.
- If this product was purchased as part of a bundle/package, familiarize yourself with each set of instructions included with the bundle/package before beginning.
- Check the parts and hardware packages against the parts 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 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. Install two bushings from HP9342 into each shackle weldment. Do not grease the barrel of the bushings.
2. Grease the crush sleeves with a high-quality synthetic grease and press them into the bushings.
3. Press the crush sleeves into the bushings. A rubber mallet or arbor press can be used to fully seat the bushings and crush sleeves.
4. Install the grease zerks into the threaded holes on the shackle weldment. Do not over-tighten the grease zerks.



5. Using a vehicle hoist or suitable jack stands, lift the rear of the vehicle by the frame rails until the rear wheels are off the ground. **NEVER WORK UNDER AN UNSUPPORTED VEHICLE!**
6. Remove the rear wheels.
7. Working on a single side of the vehicle, support the rear axle with a floor jack.

8. Remove the bolt holding the shackle to the frame.



9. Use the floor jack supporting the axle to lift the leaf spring up enough to access the bolt connecting the shackle to the leaf spring. Unbolt the shackle from the leaf spring.
10. Use the OEM bolt and nut to fasten the shackle to the leaf spring, but do not torque at this time.
11. Lower the floor jack to align the shackle and frame mount. Use the OEM bolt and nut to fasten the shackle to the frame, but do not torque at this time.
12. Repeat steps 7-11 on the opposite side of the vehicle.
13. With both shackles installed, install the wheels and lower the vehicle to the ground.
14. Torque all four shackle bolts to **130 ft-lbs**.
15. Grease the shackles every 3000-5000 miles.



## 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.