

## Cognito Economy Leveling Kit for 01-10 Silverado/Sierra 2500/3500 2WD/4WD Trucks

**INSTALL INSTRUCTIONS:**

Cognito Economy Leveling Kit for 01-10 Silverado/Sierra  
2500/3500 2WD/4WD Trucks  
SKU: 110-90591

**PARTS LIST FOR SKU: 110-90591**

| QUANTITY | PART #        | DESCRIPTION                   |
|----------|---------------|-------------------------------|
| 2        | TORSION-KEY-8 | Torsion key                   |
| 2        | 1198          | Lower Control Arm Shock Mount |

**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 Leveling Kit.

This kit consists of torsion bar keys and shock extenders to be used with OE or OE length shocks.

## 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.

**\*\*\*Upon completion of the installation, headlight adjustment and front-end alignment are required\*\*\***

## INSTALLATION

1. Always work on a properly supported vehicle. Lift the front of the vehicle off the ground by the frame so the front tires and suspension droop down.
2. Starting on the passenger side, support underneath the lower control arm with a jack and raise the suspension slightly.
3. Remove the lower shock bolt from the factory lower shock mount bracket.
4. Then remove the 2 bolts holding the factory lower shock mount bracket to the lower control arm.
5. Discard the factory mount and replace with the supplied extended shock mount as shown in **Figure 1**, torque bolts to **50 ft-lbs**. Replace the shock to its new mount with the factory hardware previously removed, and torque to **65 ft-lbs**. If you are using an aftermarket shock, you may not need to use the extended shock mounts depending on the length of the shock. Consult with Cognito Motorsports if needed.



**Figure 1**

6. Repeat the previous steps on the driver side.
7. With both front wheels and front suspension drooped fully, remove torsion bar adjusting screws as shown in **Figure 2**.


**Figure 2**

8. Using a torsion bar tool, load torsion bar as shown in **Figure 3**, and remove adjuster nut as shown in **Figure 4**, then unload torsion bar and remove tool.


**Figure 3**

**Figure 4**



9. Slide torsion bar forward into lower control arm. If bar seems lodged, use a punch and hammer to loosen through the hole in the back of the torsion bar cross member. This will allow the adjuster to fall out. Repeat this to the other side.
10. Reinstall the new adjuster key in the reverse order.
11. Tighten the adjuster bolt while the truck is still off the ground.
12. Do not tighten the adjuster bolt to raise the height of the vehicle while the vehicle is on the ground and the front suspension is holding its own weight. This will cause the adjuster bolt excess stress and will most likely strip the threads.



## 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.