



**trimmLINE by Cognito  
Leveling kit for  
2007 to present – Chevy and GMC 1500 truck and SUV 2/4WD**

**CAUTION:** Installation must be performed by a qualified mechanic. Installation by an un-qualified mechanic may result in an unsafe vehicle/ and or personal injury.

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

**Note:** It is necessary to raise the vehicle to perform installation of these products. A hoist or installation bay is recommended. Always ensure the truck is properly supported before attempting installation as serious injury could occur.

**Parts List**

- (2) 5565 Upper strut spacer
- (2) 5566 Lower strut spacer
- (6) 10mm flange nuts

**INSTRUCTIONS:**

1. Raise vehicle with car hoist or jack and jack stands, never work on an unsupported vehicle.
2. Remove the front wheels.
3. On both sides of truck, loosen but don't remove the hardware holding the upper and lower control arms to the frame. Just loosen the nuts enough so the bushings are not binding which will prevent the suspension from drooping.

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4. Unbolt the struts from the truck removing the 3 upper nuts by accessing them from the inside of the engine compartment or from under the inner fender well as shown in Figure 2. Then remove the 2 bolts holding the lower end of the struts to the lower control arms shown in Figure 3, the suspension should droop an inch or more with the strut fasteners removed.



**Figure 1: ready to unbolt the strut**



**Figure 2: removing upper strut fasteners**

5. Drop the strut down by hand several inches, make sure the top plate is clean and then apply the 5565 upper strut spacer over the studs as shown in Figure 4.
6. Now install the upper strut back into the truck but the included short flange nuts must be used in place of the stock nuts. Tighten the 3 top nuts to 30 ft lbs of torque. See Figure 5.

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**Figure 3: Remove 2 bolts on bottom of lower arm**



**Figure 4: Install upper strut spacer**

7. Now sandwich the lower strut spacer in between the lower end of the strut and the lower control arm as shown in Figure 6. If tight, use a pry bar as shown to make room to slide the spacer into place and line up the bolt holes so the factory bolts pass thru the lower control arm then the spacer and finally the shock bar pin and nuts. Tighten to 40 ft lbs, do not over tighten!



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**Figure 5: bolting upper end of strut back into the frame**



**Figure 6: Re-installing lower end of strut with spacer.**

8. Re-install wheels and torque lug nuts to factory specification.
9. Lower truck back on the ground to ride height, jounce the suspension and turn the steering wheel back and forth. Now tighten the upper and lower control arm bolts that were previously loosened, to 80 ft lbs of torque.
10. Re-adjust the headlights per owner's manual, and have the front end professionally aligned to factory specifications.
11. The vehicle will handle differently due to increased ride height, please take time to re-familiarize yourself with the handling characteristics of your modified vehicle.

## Instruction # 8111

### **Cognito Motorsports**

#### **Limited Lifetime Warranty**

Cognito Motorsports warrants, to the original retail purchaser, that its suspension products are free from defects in workmanship and material for as long as the purchaser owns the vehicle on which the product was originally installed. Cognito Motorsports does not warrant the product for finish, alterations, modifications, and/or original installation contrary to specifications of Cognito Motorsports. Cognito Motorsports suspension products are not designed nor intended to be installed on vehicles used in race applications or for racing purposes or for similar activities involving abnormal abuse other than the vehicle was originally designed to handle or endure. (A "RACE" is defined as any contest between two or more vehicles, and/or contest of one or more vehicle against the clock, whether or not such contest is for a prize.)

This warranty is for a one-time replacement of each Cognito Motorsports product and does not cover any part that Cognito Motorsports has previously replaced under this warranty. This warranty does not include coverage for police or taxi vehicles, race vehicles, or vehicles used for government or commercial purposes. Also excluded from this warrant are sales outside of the United States of America. Alterations to the finish of the parts including but not limited to painting, powder coating, plating, and/or welding will void all warranties. Cognito Motorsports obligation under this warranty is limited to the repair or replacement, at Cognito Motorsports option of the defective product. Any and all costs of removal, installation or re-installation, freight charges, incidental or consequential damages are expressly excluded from this warranty.

This warranty excludes the following items: bushings, bumpstops, tie-rod ends, limiting straps, and hiem joints. These parts are subject to wear and are not considered defective when worn. They are warranted for 60 days of purchase for defects in workmanship. Cognito Motorsports suspension components must be installed as a complete system. Any substitutions or exemptions of required components will immediately void the warranty. Some finish damage may happen to parts during shipping and is not covered under warranty. This warranty shall not apply to any product that had been subject to accident, negligence, alteration, abuse, or misuse. Cognito Motorsports does not warrant products not manufactured by Cognito Motorsports. Cognito Motorsports reserves the right to supersede, discontinue, or change the design, finish, part number and/or application of parts when deemed necessary by Cognito Motorsports without written notice, and in the sole and absolute discretion of Cognito Motorsports.

#### **Warranty Claims**

All warranty claims must be submitted through the original company of purchase. All claims must be shipped back to the original company of purchase with an approved RMA number listed as a reference on the shipping label and clearly printed on two opposing sides of the package(s); product in question must be inspected by Cognito Motorsports before replacement parts are shipped out.

#### **Return Policy**

Cognito Motorsports has a no refund return policy. Under special circumstances, returns might be accepted with prior written approval. All returned product will be shipped freight prepaid. Product returned is subject to a 25% restocking fee. No returns will be accepted after 30 days upon receipt of product.

#### **Product Consumer Safety and Warning**

The installation of this kit will modify the suspension of your vehicle and may cause it to handle significantly different than a factory equipped vehicle. Installing larger tires with modified suspension and increased ground clearance will significantly alter the handling characteristics of the vehicle, and may result in increased braking distances as well as changes in vehicle maneuverability and handling compared to the factory equipped vehicle. As with any vehicle, extreme caution and care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts and drive safely, recognizing the reduced speeds and specialized driving techniques is required.

This suspension system will not strengthen nor reinforce the stock frame of the vehicle, nor will it increase rollover protection. It is necessary to periodically inspect all suspension and drive train components for tightness of fit or any damage. Installation of these parts will modify the height of the vehicle and will raise the center of gravity. Altered height modifications and off-road operation may increase your vehicle's susceptibility to roll over conditions and may cause serious injury or death. Many states regulate the height modification to each vehicle. Check the laws in your state for exact specifications. Height modifications may affect the reaction, ride, handling, and wear factor of your vehicle's components.

**Failure to drive this vehicle safely may result in injury or death!** Do not drive this vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications and combinations of modifications are not recommended, unsafe, and may not be permitted in your state. Consult your vehicle owner's manual, the instructions accompanying this product, and your state laws before undertaking these modifications. The owner of the modified vehicle and the qualified mechanic required to install this product are responsible for the legality and safety of the vehicle being modified.