



**KG09108**  
**2004-11 CHEVY COLORADO/CANYON/  
HUMMER H3/ H3T 4WD  
TORSION BAR LEVELING KIT**



## **Thank you for choosing Daystar Products**

Daystar recommends a certified technician install this system . In addition to these instruction , professional knowledge of disassemble/reassembly procedures as well as post instructions checks must be known. Attempts to install this system without this knowledge and expertise may jeopardize the integrity and/or operating of the vehicle.

Please read all the instructions before beginning the installation. Check the kit hardware against the parts list. Be sure you have all the needed parts and understand where they go. If anything is missing , do not proceed with the installation, call Daystar Products to obtain needed items.

### **Product Use Information**

As a general rule, the taller a vehicle is the easier it will roll. We strongly recommend , because of rollover possibility, that seat belts and shoulder harness be worn at all times. Avoid situations where a side rollover may occur.

Braking performance and capabilities are decreased when significantly large/heavier tires and wheels are used. Take this into consideration while driving, also , speedometer recalibration is necessary when larger tires are installed.

Do no add, alter, or fabricate any factory or after-market parts which increase vehicle height over the intended height of the Daystar Product purchased. Mixing component brands, lifts, and/or combining body lift with suspension lift voids all warranties. Daystar makes no claims regarding lifting devices and excludes any and all implied claims. We will not be responsible for any products that is altered.

## Notice to Dealer and Vehicle Owner

Any vehicle equipped with any Daystar Product must have the “Warning to driver” decal installed on the sun visor or dash. The decal is to act a constant reminder for whoever is operating the vehicle of its unique handling characteristics. **INSTALLING DEALER**— Its is your responsibility to install the warning decal and forward these instructions on to the vehicle owner for review and to be kept in the vehicle for service life.

After installation occurs, a qualified alignment facility is required to align the vehicle to factory specs.

### NOTES:

- Installation requires a professional Mechanic.
- Have a factory service manual on hand for reference and for appropriate torque specifications.
- **WARNING:** Torsion bars have a tremendous amount of energy stored in them, even with the suspension at full extension travel. Safely loading / unloading the torsion bars requires a special tool. Refer to the factory service manual. Use extreme caution when working with torsion bars and wear all appropriate safety equipment.
- Read through all installation steps before proceeding. If you have questions, contact Daystar before beginning the installation.

### Installation steps

1. Place the vehicle on a level surface. Prior to beginning, record ride height on each side of the vehicle by measuring from the center of the spindle to a consistent point on the wheel well. Record these measurements for future reference.
2. Put the transmission in Park or 1<sup>st</sup> gear (manual transmissions) and chock the rear tires.
3. Raise the front of the vehicle using a jack. Raise it enough to completely unload the front suspension. Place a jack stand under each frame rail just behind the lower control arms for the front suspension. Ease the frame down on to the stands, but leave a slight load on the jack as a safety precaution.
4. Verify the front tires are off the ground and that the suspension is unloaded, or at full extension travel. Remove the front tires.
5. On each side, loosen and remove the nuts on the upper end of the front shocks. Save all hardware and bushings for re-use.
6. Locate the torsion bar crossmember. There is a bolt on each side of the crossmember that adjusts torsion bar preload. Measure or mark the exposed length of the adjuster bolt for reference during re-assembly.

7. With the suspension at full extension travel, carefully loosen and remove the adjuster bolt until there is no more preload on the torsion bar, then remove the adjuster bolt and nut block.
8. Note the orientation of the torsion bar key in relation to the end of the torsion bar. Slide the torsion bar forward, out of the torsion bar crossmember, and set the factory torsion bar key aside. It is not necessary to remove the torsion bars from the vehicle. NOTE: the torsion key should slide easily off the end of the torsion bar. However, depending on the age and use of the vehicle, rust and road debris may prevent easy removal. The installer can use a variety of methods to separate the torsion key if it is “stuck”, but using heat is *not* recommended.
9. Place the Daystar torsion key in the torsion bar crossmember, matching the same orientation as the original key. Slide the torsion bar back through the crossmember and into the torsion key.
10. Using the same precautions and procedures that were used during removal, install the adjuster bolt and nut block and carefully load the torsion bar to the same point that it was adjusted to before.

11. Install the S10978 shock spacers on top of the front shocks by removing the upper shock nut (if not done earlier), washer, and isolator. Compress the shock enough to slide the stud out of the frame mount. Remove the lower isolator and washer from the shock stud, then install the S10978 spacer. Put the washer and isolator on top of the spacer, reinstall the shock stud into the shock mount, then re-install the remaining isolator, washer, and retaining nut. Tighten until the bushings swell slightly.
12. Reinstall the front tires and torque the lug nuts to factory specifications.
13. Lower the vehicle to the floor, manually bounce the front of the vehicle several times enough to settle the suspension.
14. Measure the ride height on each side. To raise the height, tighten the torsion bar adjuster bolt; to lower ride height, loosen the adjuster bolt. The torsion key is capable of increasing the ride height 1-1/2" (mid-size) to 2" (full-size) over *factory* specifications. Do not increase ride height above these specifications.
14. Realign the vehicle to factory specifications.

**IMPORTANT:** The net amount of ride height increase depends upon the age and use of the vehicle, wheel offset, and numerous other factors. Stated torsion bar ride height increases are based upon factory specifications. If the torsion bars were “cranked up” at some point in the past, expect a corresponding reduction in overall height increase with the new torsion keys. Note that torsion bars, like any other spring, are subject to fatigue and sagging over time. Also, torsion bars have different ratings depending on how the vehicle was equipped from the factory. In some cases, installing heavier rated bars (which can be purchased from a dealer) may be the only solution to regaining ride height lost from adding heavy aftermarket accessories, such as a winch bumper or snow plow.

**TOOLS NEEDED**

Floor Jack X 1  
Jack Stands X 2  
Hand Tools  
18mm socket and wrench

**BILL OF MATERIALS**

P20085 x 2 Torsion Key  
S10978 x 2 Shock spacer  
P11404 x 1 Instructions

