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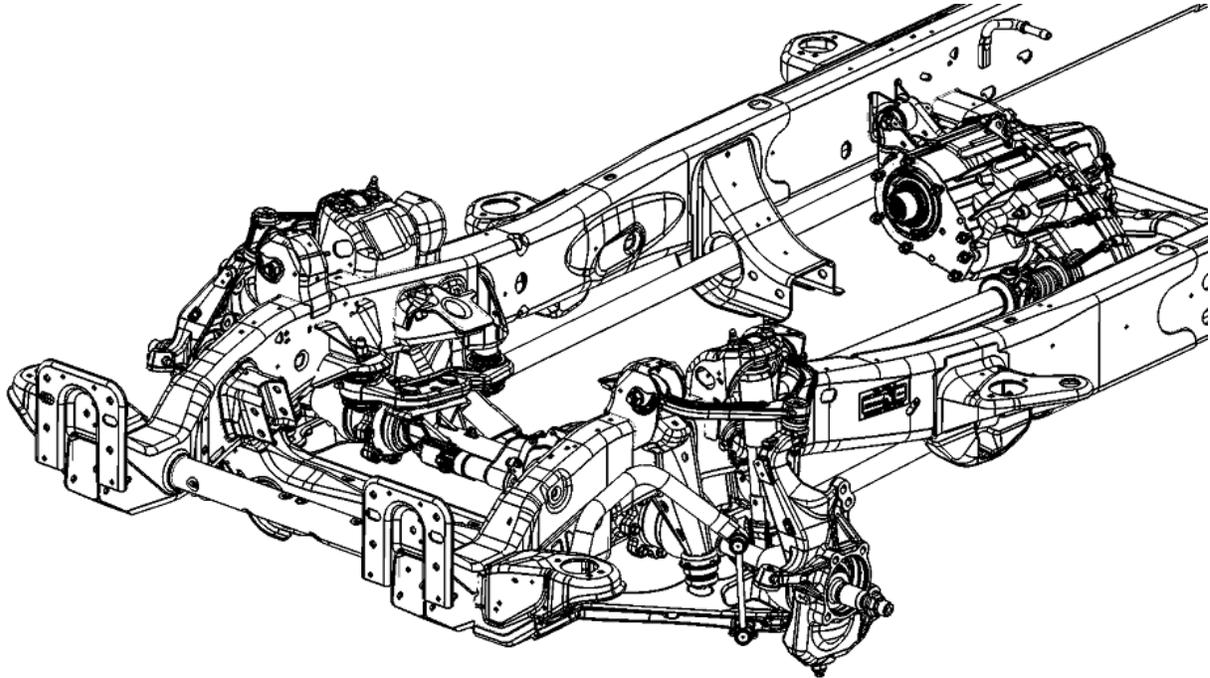
Leveling Kit (+2") Torsion Bar Independent Front Kit Installation Manual

- 2020+ GM 2500-3500 HD

Note: To use factory wheels and tires, a 2" wheel spacer must be installed to prevent UCA from rubbing on tires.

Kit Number; 10006747

Kelderman Independent Torsion Front



Leveling Kit (+2")

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Kit Numbers

- This installation manual covers the following lift kits.

Kit Number	Description
10006747	2020+ Chevrolet 2500/3500 HD – 4wd – Independent Torsion Front – Leveling Kit (+2") 2020+ GMC 2500/3500 HD – 4wd – Independent Torsion Front – Leveling Kit (+2")



Introduction

- Important

It is important that the entire installation instructions be read thoroughly before proceeding with installation. This kit reuses several OEM components that will be removed during disassembly then reinstalled. Kelderman recommends bagging and labeling all hardware removed during disassembly.

Before installation open every box and locate all parts. There may be smaller pieces and bolts that are packaged separately inside the main box.

- Product Installer Responsibilities

Installer is responsible for installing this product in accordance with Kelderman Mfg. Inc. specifications and installation instructions.

Installer is responsible for providing proper installation of vehicle components and attachments as well as required or necessary clearance for suspension components, axles, wheels, tires, and other vehicle components to ensure a safe and sound installation and operation of this product.

- Definition of Terms

- **Warning:** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- **Caution:** A potential hazardous situation may result in property damage.
- **Note:** Provide information or suggestions that help correctly perform a task.
- **Torque:** When italicized "*torque*" alerts the installer to tighten fasteners to a specified value.

Safety

- **Your Safety and the Safety of Others is Very Important.**
Read and understand all safety precautions and instructions before installing this product.

- **CAUTION: Trucks Equipped with Parking Sensors or Other Like Devices.**
Relocation of these devices will alter the field of view. It is the responsibility of the owner to understand how these changes affect the operation of these systems.

- **WARNING: Careless Installation Can Result in Serious Injury or Property Damage**
 - Wear eye protection.
 - Disconnect the battery before doing any work on the vehicle.
 - Work on flat level ground.
 - Ensure truck is properly supported by jack stands. Never work under a vehicle supported only by hydraulic jacks.
 - Take precautions when lifting product. Due to the size and weight of this product two people are recommended for installation.
 - Never work directly under the product until it has been securely fastened to the vehicle.
 - Avoid sharp, hot, and moving components when routing electrical cables and air lines.
 - If drilling inspect both sides of the surface and remove/relocate any objects located in the way.
 - Ensure all bolts are properly tightened before driving.

- Product Owner Responsibilities

- Product owner is solely responsible for pre-operation inspection, periodic inspections, maintenance, and use of the product as specified by Kelderman Mfg. Inc. Of particular importance is the re-torque of fasteners. This re-torque must be performed within 90 days or 1000 miles of this product being put into service.
- Product owner is responsible for “*down time*” expenses, cargo damage, and all business costs and losses resulting from a warrantable failure.

- **Service Intervals**

- First 1,000 Miles**

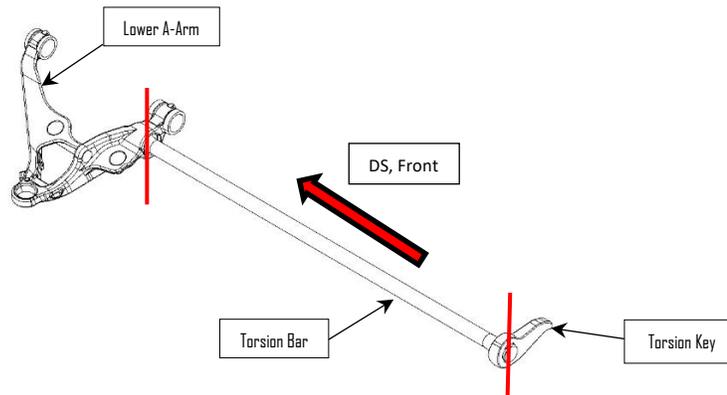
- Check ride height $\pm 1/4$ ”
 - Check for any loose or rubbing hoses and wires.
 - Re-torque all hardware.

- Every 30,000 Miles**

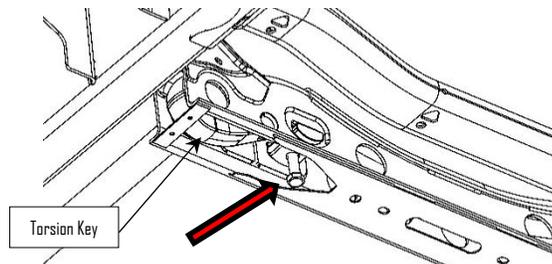
- Check ride height $\pm 1/4$ ”
 - Grease suspension components
 - Inspect bushings for wear; replace if required.

Kit Installation

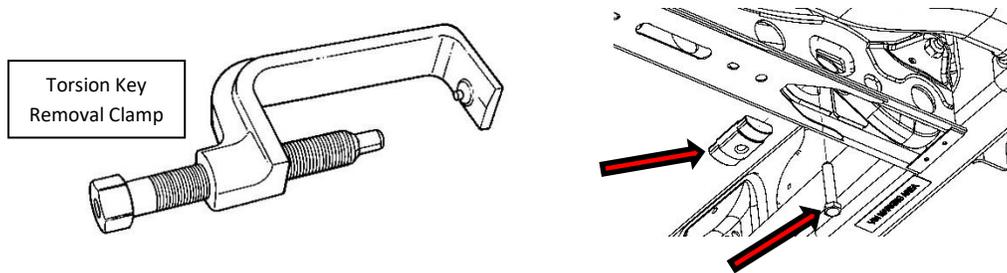
- 1: Break the front lug nuts loose, but do not remove.
- 2: Apply the parking brake. Lift the front of the vehicle until the tires are off the ground and the suspension is at full droop. Support the truck with jack stands and remove the front wheels.
- 3: Mark and label each torsion bar, they will need to be reinstalled in the same orientation. Take note of driver side (DS) vs passenger side (PS), front vs back, and indexing in the lower A-arm and in the torsion keys.



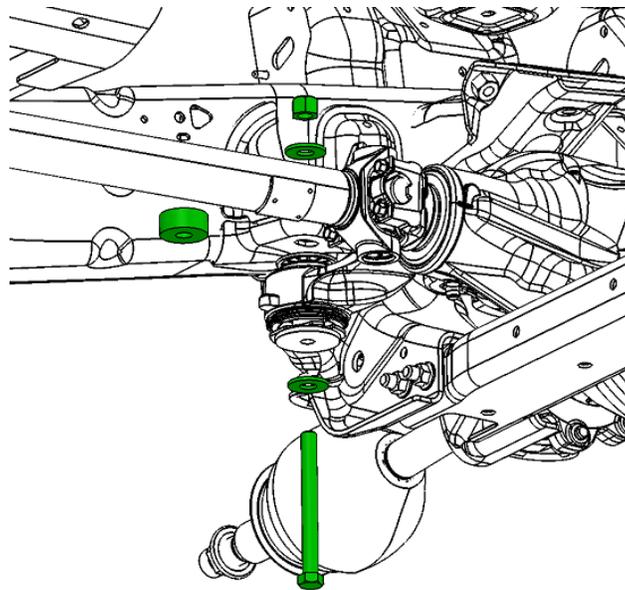
- 4: Locate the torsion key bolts and measure the length of bolt visible _____, count the number of turns as you remove the bolt _____. It is important that this bolt is set back to the correct length when re-installing the torsion key.



- 5: First, install the leveling torsion keys. Use a torsion key removal clamp to release pressure from the threaded block. Once the block is free remove it from the crossmember. Slowly back off the clamp until torsion pressure is released. **NOTE:** The bolt and threaded block will be reused.

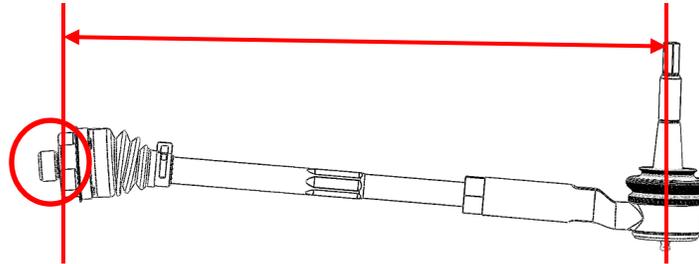


- 6:** Slide the torsion bars forward and remove the factory torsion keys.
- 7:** Insert the torsion keys provided in the Kelderman kit into the crossmember and reinstall the torsion bars in their positions noted in step 3.
- 8:** Using the torsion key clamp, reapply pressure to the key until the threaded block can be reinstalled in the crossmember.
- 9:** Reinstall the factory bolt taking note set it back to factory settings as noted in step 4.
- 10:** Next, install the differential spacers. Starting with the driver side, support the differential with a jack and remove the two bolts and nuts that fasten the difference bracket to the frame.
- 11:** Slowly lower the differential to create ~1" of space between the frame and the bracket
- 12:** Insert a spacer at each of the mounting points for the differential bracket placing them between the frame and the differential bracket and reinstall the bracket to the frame using the provided 9/16" bolts, nuts and washers.



- 13:** Repeat steps 10-12 for the passenger side of the differential.
- 14:** Torque all 9/16" -18 fasteners to 128 ft-lbs.

- 15:** A shock spacer kit is included in the Kelderman Leveling Kit. If shocks other than Raptor Shocks are being used, shock spacers may be necessary. Follow the instructions provided in the spacer kit for installation according to your shock choice.
- 16:** Next, install the Kryptonite Tie Rod Ends. Remove the factory tie rod ends from the steering knuckle and drag link; there's one on either side of the vehicle. **NOTE:** Measure the length of the tie rod end as this will help when installing the new tie rod ends.



- 17:** Set the Kryptonite tie rod ends to match the measurement taken from the factory tie rod ends and install. **NOTE:** It is recommended to use red thread locker on the threaded end that assembles to the drag link, noted by the red circle in the image above.
- 18:** Reinstall the front tires.
- 19:** Sweep the suspension and the steering thru the full range of motion and check that no components are binding, colliding, or rubbing.
- 20:** The truck is now ready to test drive.
- 21:** After test driving check all fasteners to make sure nothing has worked loose. Inspect suspension for signs that any component maybe binding, colliding, or rubbing, reposition if required.
- 22:** Kelderman recommends that you take the truck to an alignment shop before doing any extensive driving as misalignment can cause premature wear and failure of suspension components.

Parts Key

Item Number	Part Number	Description
1	80283	Torsion Key
2	10006070	Differential Spacer
3	12337	9/16"-16 x 5 1/2" Grade 8 Bolt - YZ
4	13125	9/16"-16 Grade 8 Lock Nut - YZ
5	15121	9/16" x 1/4" Thick Washer

6	80284	Kryptonite Tie Rod End
7		Shock Spacer Kit

Notes

Contact Information

- Kelderman Manufacturing appreciates your business. We strive to meet the needs of our customers by providing the highest quality products. If you have any questions concerning our products please call or email us at the following:

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