

# **IVD** LEVELING™ S U S P E N S I O N

7929 Lincoln Ave. Riverside, CA 92504  
 Phone: 951.689.ICON Fax: 951.689.1016

## Instruction Sheet:

<b>PART# IVD1120</b>	<b>2011+ GM HD 2500/3500 Torsion Key Leveling Kit</b>
----------------------	---

### Enclosed Parts List

(2) Torsion Keys  
 (4) Shock Spacers

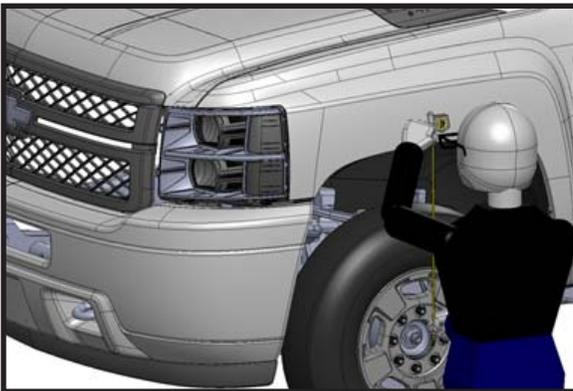
**\*\* READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED SEVERE FRAME, SUSPENSION AND TIRE DAMAGE MAY RESULT TO THE VEHICLE! \*\***

### Installation Notes

**\*\* Installation by a certified mechanic is highly recommended. \*\***

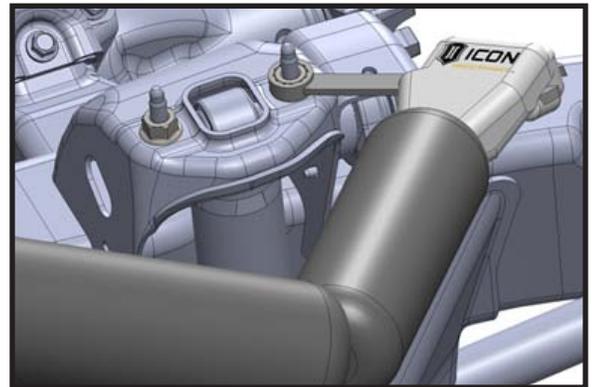
**\*\* ICON Vehicle Dynamics is not responsible for any damage or failure resulting from improper installation. \*\***

**\*\* WARNING! ICON Vehicle Dynamics recommends that you exercise extreme caution when working under a vehicle that is supported with jack stands. \*\***



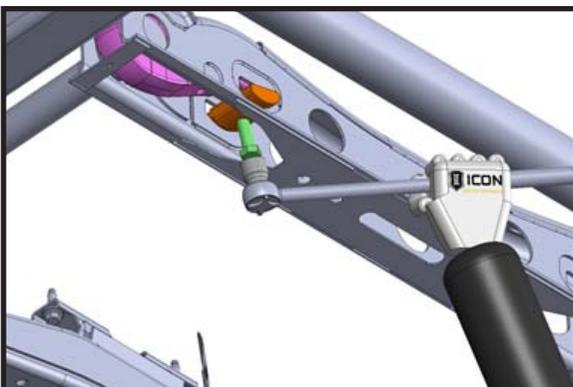
**1. ENSURE TRUCK IS IN GEAR OR IN PARK, SET PARKING BRAKE, TURN OFF ENGINE AND CHOCK TIRES!**

**2. With the vehicle sitting on level ground, measure from the center of the wheel hub to the top of the fender opening. Record this measurement; you will refer to it later to set ride height.**

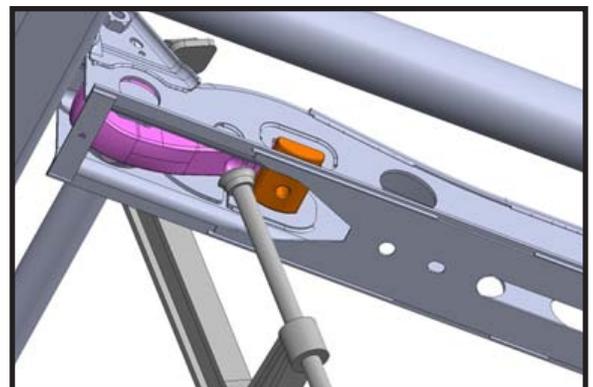


**3. Before lifting vehicle to droop suspension, loosen and remove front (2) upper shock nuts. This will allow suspension to extend further when lifted. To access shock bolts fender well may need to be removed.**

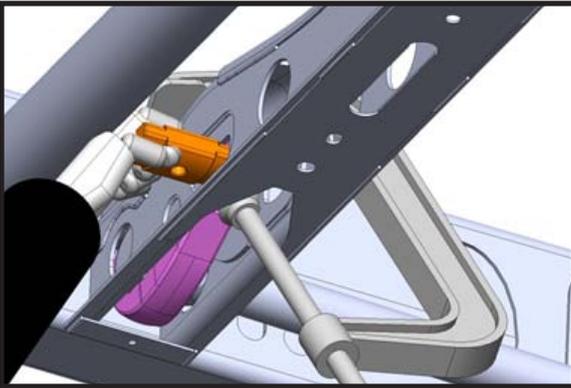
**4. Using a heavy duty jack, raise up the front of the truck and support with jack stands under the frame rail.**



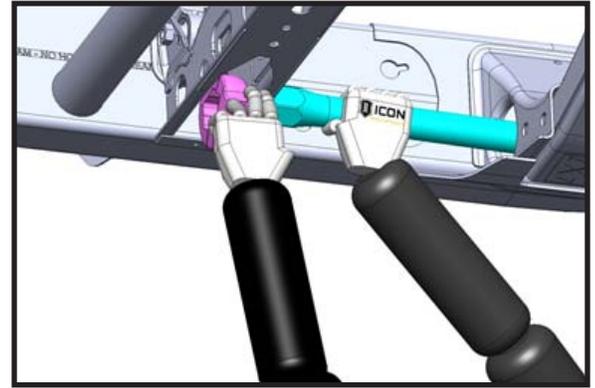
**5. Once the suspension has been fully drooped and all weight removed from the tires begin to loosen and remove adjuster block screw.**



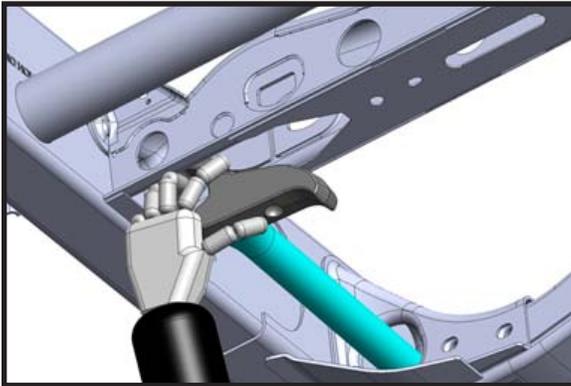
**6. Use C-clamp or specific torsion key removing tool and apply pressure to torsion key, to relieve pressure from the adjuster block.**



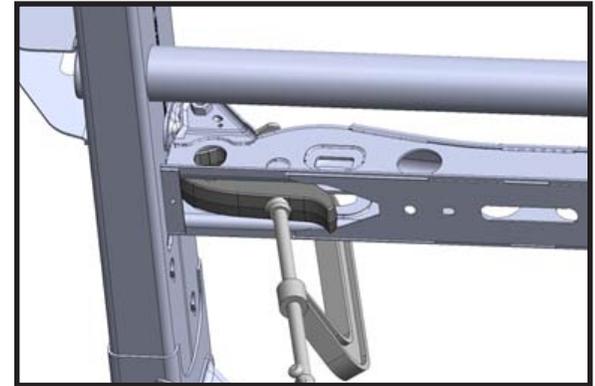
**7.** With C-clamp still holding torsion key under load, remove adjuster block from cross member. Release tension and remove tool in order to insert new IVD Leveling Suspension Torsion Lift Key.



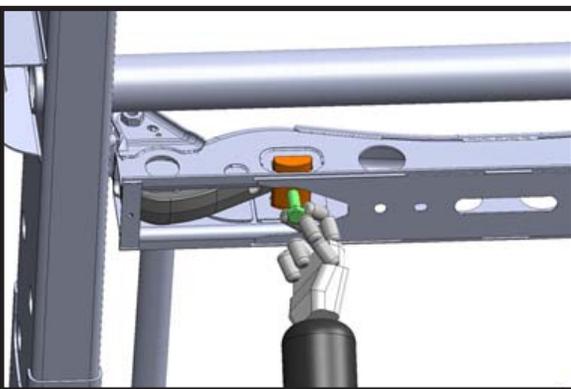
**8.** Carefully slide torsion bar forward allowing torsion key to slip out. Use caution when removing key, they are small but very heavy. At this time, note orientation of factory torsion key.



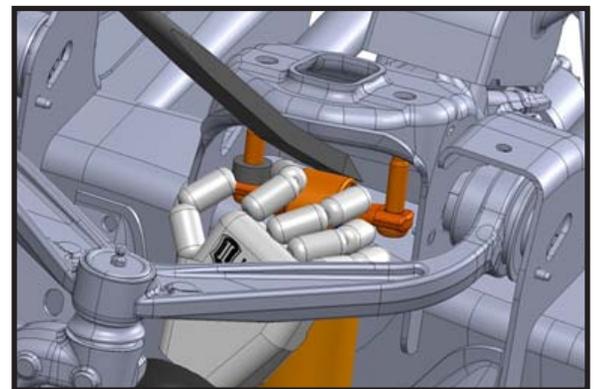
**9.** Install new IVD Leveling Suspension Torsion Lift Key into position, and slide torsion bar into hex as it was orientated previously on the OEM torsion key.



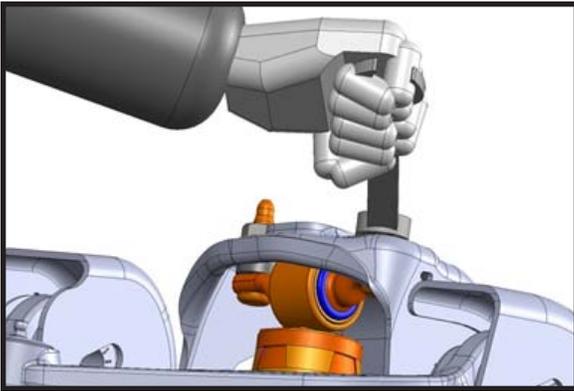
**10.** Use C-clamp or specific torsion key removing tool to apply load on new torsion key allowing enough room for adjuster block nut to be re-inserted. Once adjuster block is re-installed slowly release tension from clamp and insert adjuster screw.



**11.** Adjust screw for initial setting. Final adjustments can be done during final alignment.



**12.** Before re-installing front shocks, pry down far enough to install new shock spacers to slide over shock mounting stud. Only slide shock down far enough to get spacers on.



**13.** Reposition shock, and tighten with OEM hardware. The new extended length of the shock will allow for the same factory ride. For exceptional factory ride quality, purchase ICON 2.0" or 2.5" shocks for the front of the truck.

**14.** Once vehicle is complete and lowered, check that all parts and bolts are properly torqued. Roll truck back and forth to allow suspension to settle. Turn front wheels to steering stops left and right to check for wheel, brake line, and ABS wire clearance. Test brake lines and ABS wires for ample room for extension when suspension is at full extension. Failure to perform the post inspection checks may result in vehicle component damage and/or personal injury or death to driver and/or passengers. Test drive vehicle re-check the torque of all fasteners and re-torque wheels on vehicle. Re-adjust headlamps if necessary.

**15.** Take time to adjust torsion bar keys to the desired height. Before making adjustments, lift front of vehicle and remove pressure from torsion keys. All vehicles being lifted will need to be aligned and final lift adjustments may be required in order to properly align (Do not over-crank!). Align vehicle to factory specs and be sure to re-adjust the headlamps.

**\*\* Installer is responsible for ensuring vehicle safety and handling ability after performing modifications to suspension. \*\***

### **ICON Vehicle Dynamics LIMITED LIFETIME WARRANTY**

ICON Vehicle Dynamics warrants to the original retail purchaser who owns the vehicle on which the product was originally installed. ICON Vehicle Dynamics does not warrant the product for finish, alterations, modifications and/or installation contrary to ICON Vehicle Dynamics instructions. ICON Vehicle Dynamics products are not designed, nor are they intended to be installed on vehicles used in race applications, for racing purposes or for similar activities. A "race" is defined as any contest between two or more vehicles, or a contest of one or more vehicles against the clock, whether or not such contest is for a prize. 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 warranty are sales outside of the United States of America and Canada.

ICON Vehicle Dynamics' obligation under this warranty is limited to the repair or replacement, at Icon Vehicle Dynamics' discretion, of the defective product. Any and all costs of removal, installation or re-installation, freight charges and incidental or consequential damages are expressly excluded from this warranty. Items that are subject to wear are not considered defective when worn and are not covered. ICON Vehicle Dynamics components must be installed as a complete kit as shown in our current application guide. 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 is expressly in lieu of all other warranties expressed or implied. This warranty shall not apply to any product that has been improperly installed, modified or customized subject to accident, negligence, abuse or misuse.

**ICON Vehicle Dynamics**  
7929 Lincoln Ave. Riverside, CA 92504 Phone: 951.689.ICON Fax: 951.689.1016  
[www.iconvehicledynamics.com](http://www.iconvehicledynamics.com)