



## HARD CORE STEERING ★ SUSPENSION PRODUCTS

### UPPER CONTROL ARM KIT INSTALLATION INSTRUCTIONS

2011-2017 GM HEAVY DUTY TRUCK

#### **READ THE FOLLOWING BEFORE INSTALLATION!**

##### **Introduction:**

- This upper control arm is NOT designed to be a droop travel limiter. If your suspension has been modified to increase travel or drop out limit strap must be used, or else damage to the arm and other components of the suspension as well as the drive train may occur.
- Installation requires a qualified mechanic.
- Read instructions carefully.
- Check the parts and hardware packages against the Parts List to assure that your kit is complete.
- Always wear safety protective equipment while using power tools.

##### **Parts List:**

- Driver Side Upper Control Arm
- Passenger Side Upper Control Arm
- Heavy Duty Bolt on Upper Ball Joints
- Hardware Package (We include additional grease fittings so that you have multiple options for access when servicing your components depending on how your truck sits)

##### **Installation Instructions:**

1. Rack the vehicle and hoist off the ground, or if no hoist is available, then jack the front of the vehicle off the ground and support properly with jack stands. NEVER WORK ON AN UNSUPPORTED VEHICLE!
2. To remove the factory upper control arm by supporting the lower control arms with a floor jack or some kind of stand used in a safe fashion.
3. Loosen the castle nut of the ball joint of the upper control arm enough until you can spin the nut with your fingers, but *do not remove totally*. Use a pickle fork to separate the ball joint from the spindle, or tap on the side of the spindle next to the ball joint to loosen the ball joint stud. When the tapered seat of the ball joint breaks loose, you may then remove the castle nut and separate the factory upper control arm from the spindle.

4. Remove the factory bolts and eccentric washers that connect the upper control arm to the frame, retain them for future use as they will be used when reinstalling Kryptonite upper control arm. The plastic inserts will need to be removed and discarded from the eccentric washers.
5. Mount the supplied ball joints with the 5/16" bolts, flat washers and lock nuts provided in the hardware package to the bottom of the ball joint pocket of the Upper control arm, if torsion bars are cranked. If torsion bars are not cranked at all mount the ball joint to the top of the ball joint pocket instead of the bottom. Use anti-seize lubricant on the threads and tighten all hardware in this step to 22 ft.-lbs. of torque.
6. Insert the polyurethane bushings, crush sleeves and grease fittings into the ends of the upper control arms. Use WD-40 to aid installation of sleeves and bushings. Push the bushings into the arms first, then slide the sleeve into the bushings. Do not over tighten grease fitting, just until it is snug.
7. Note that the control arms are not the same, *The Kryptonite logo should be facing towards the front of the truck.* The ball joint is moved towards the rear of the truck from the center of the arm. Mount the Kryptonite upper control arms to the frame with the factory nuts, bolts, and eccentric washers as previously removed. Set the bolts in the middle of the adjustment swing to be close enough to drive to an alignment shop. Torque alignment nuts to 90 ft.-lbs. of torque.
8. Mount the ball joint to the spindle with supplied hardware and tighten to no more than 50 ft.-lbs.
9. Grease ball joint until the dust boot starts to swell. Grease the upper control arm pivot bushings as well. If you do not grease these items, premature wear will result on these items.
10. The upper control arm is not designed to be the droop travel limiter due to wear and tear of the upper ball joint. Therefore the correct length shock must be used. Excessive drop out may cause damage to the upper control arms, ball joints, tie rods, cv axles, and possibly more.

### KRYPTONITE No Fine Print Lifetime Warranty

Kryptonite steering and suspension components are warranted for life to their original purchaser. This warranty is against any manufacturer defects, premature wear or breakage. **Race it, jump it, off road it, sled pull it, wreck it, lift it, level it, lower it, I think you get it?** We don't care. If you can break it we will replace it.

**Your Kryptonite products must be purchased from an authorized dealer.**

The background of the page features a large, light gray watermark logo for 'KRYPTONITE'. The logo consists of a central banner with the word 'KRYPTONITE' in a bold, sans-serif font. Below the banner, the words 'Steering and Suspension' are written in a smaller, similar font. The entire logo is framed by a circular border that resembles a tire tread pattern.

## 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.

It is necessary to periodically inspect all suspension and drive train components for tightness of fit or any damage. 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 effect 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.