

2001-2010 GM HD Heavy Duty 4 Link Tow Kit Installation Instructions



Congratulations! You have just purchased the best engineered, highest quality air suspension kit available on the market for your 2001-2010 GM HD Pickup. When installed, this kit will allow complete control and adjustability over your truck's suspension. Be sure to fully read and understand the instructions before starting your installation. As in any suspension installation, it is the installer's responsibility to assure a correct installation. The installer is also responsible for providing adequate clearances between vehicle components such as axles, shocks, exhaust and mechanical linkages to ensure a safe and reliable installation.

WARNING

DO NOT EXCEED THE MANUFACTURER'S RECOMMENDED GROSS VEHICLE WEIGHT RATING (GVWR).

1. Raise the vehicle until wheels are off the ground and support with jack stands under the frame.
2. It is recommended that the truck's bed be removed to allow working clearance in and around the chassis. Use care to insure that the OEM lighting wire harness connectors, fuel filler neck(s) and grounding straps are disconnected prior to lifting the bed from its mounts
3. Support the rear axle with jack stands and remove the wheels.

Extreme caution should be used in the next few steps to prevent personal injury and/or property damage. Make sure springs are unloaded before attempting to remove them. Failure to do so can cause the spring to eject. Use a floor jack to find the "neutral" position of the springs before removal.

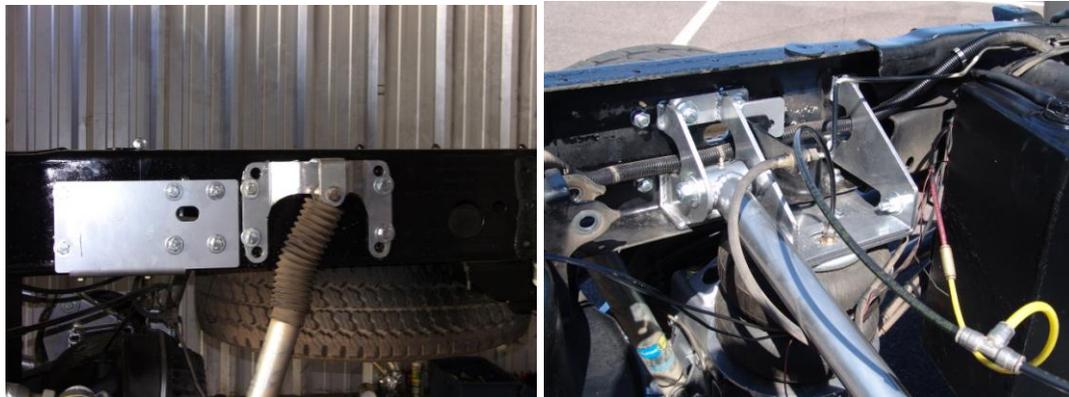
4. Remove the leaf springs and the rear shackle assembly
5. Remove the secondary overload spring pads (if applicable)
6. Remove the rivets securing the factory leaf spring hanger to the frame. The holes in the frame will need to be chased with a 1/2" drill.



7. Install the new 4 link mounts. The 4 link mounts install into the factory leaf spring hanger's mounting holes
8. Install the upper and lower halves of the axle 4 link mounts. The lower half will fit snugly against the axle and the upper half will locate in the centering pin of the leaf spring pad. Install 5/8"-11 x 7" bolts and finger tighten for now



9. Align the 3/8" diameter holes on the bag mount with the with the original bump stop mounting holes on the frame. Also align the large oval hole on the side of the frame with the oval hole in the bracket. Make sure that the bracket sits directly over the centerline of the axle and mark and drill the remaining holes and attach the upper bag mount. The pan hard mount on the driver's side of the truck utilizes many of the same mounting holes so be sure to install that before all of the hardware is tightened.



10. The rear shock mounts have provisions to install directly over 2 existing rivets that attach the rear cross member to the frame. Mark and drill the holes and attach the rear shock mounts.



11. Remove factory differential cover and drain fluid
12. Mount differential pan hard bracket between the differential cover and differential housing with link mount provisions towards the passenger side of the truck.
13. Re fill rear axle with the manufacturer's recommended fluid type and volume



14. Install the pan hard bar with the bushing end on the frame and the heim joint at the axle

15. Install the lower bag mounts on to the rear axle. The outboard side of the bracket will sit flat on the axle's bump stop pad. The inboard side of the bracket will be supported by a clamp that fits around the axle and is bolted to the bag mount. Not all axles are the same and some bump stop pads are taller than others. We include 3 different support brackets with different heights. Choose the one you need to keep the bag mount parallel with the axle tube and the other two are used as clamps to secure the bracket to the axle.



16. Install air fitting on airbag and mount the rear air bags. Be sure to place the 9 ½” diameter flat bag plate between the bag and bag mounts. This keeps the bag from rolling over itself at low pressures and contacting any sharp objects.



17. Install the 4 link bars between the hangers and axle mounts with the bushing ends of the bars mounted at the frame and the heim joints mounted at the axle. Adjust the length of the bars to adjust the pinion angle and also center the axle



18. Be sure to tighten all hardware after installation for the hangers, links, axle mounts, bag brackets, shock brackets, pan hard bar and differential bracket. Check again after 50 miles of driving

19. Raise the rear of truck and remove jack stands. Mount the wheels and lower the truck to the ground. Add and remove air to bags and articulate suspension.

