

CrownSuspension Silverado Flip Kit 401360

Installation Instructions

07-14 GM 1500 2WD/4WD
5-6" REAR LOWERING KIT
REAR AXLE FLIP, SHACKLE HANGER KIT

QTY	PARTS LIST
• 2	U-BOLT PLATE
• 2	AXLE RELOCATOR
• 2	U-BOLT RETAINER
• 1	TRANSMISSION SPACER
• 1	REAR HANGER - DRIVER
• 1	REAR HANGER - PASSENGER
• 1	LEAF SPRING PLATES
• 6	7/16-14 x 1 1/4" Bolt
• 6	7/16-14 Nylock Nut
• 12	7/16 SAE Washer
• 2	10mm x 1.5 x 35mm Bolt
• 2	10mm Washers
• 2	1/4" x 1 1/2" Self Tapping Bolt
• 2	8mm x 1.25 x 20mm Bolt
• 2	8mm x 1.25 Serrated Locknut
• 2	8mm Washer

PRIOR TO INSTALLATION:

1. Factory service manual is recommended to have on hand.
2. Secure and properly block vehicle prior to beginning installation
3. Always wear safety glasses when using power tools or working under the vehicle
4. Modifications to any part will void the warranty associated with that product.

After removing parts from vehicle, save hardware for reinstallation

IT IS RECOMMENDED THAT YOU HAVE YOUR VEHICLE'S ALIGNMENT CHECKED WHENEVER INSTALLING NEW TIRES. IT IS ALSO RECOMMENDED THAT YOU ADJUST YOUR HEADLIGHTS WHENEVER YOUR VEHICLE'S RIDE HEIGHT IS ALTERED.

TRAILER HITCH REMOVAL

If your vehicle has come equipped with a Trailer Hitch, more than likely, this will interfere with the installation process. This will need to be removed. This makes access easier when mounting the REAR SHACKLE hardware. Disconnect the wire plug. Using a 21mm wrench, remove all the mounting hardware for the Trailer Hitch. There are a total of six bolts, three per side. Lower and remove the Trailer Hitch and place out of the way, along with the hardware.

GAS TANK PROTECTIVE SHIELD AND GAS TANK REMOVAL

In order to get to the front mounting hardware that mounts the leaf spring (driver's side), the GAS TANK will need to be lowered to get access to the bolt head. First, support the GAS TANK from underneath. NOTE: This step would be easier to do if the GAS TANK was near empty. Otherwise, moving a half-full or a full tank of gas is going to be more laborious. The PROTECTIVE SHIELD that shrouds the GAS TANK is mounted with three mounting bolts on one side (driver's side), that mount directly to the frame. Using a 13mm wrench, remove the bolts completely and set aside. On the inside (opposite of driver's side), the SHIELD hangs on four rectangular hooks. Lift this side up above the hooks. You should now be able to wiggle the PROTECTIVE SHIELD down and out. Set this aside. Put the three mounting hardware back in their respective mounting holes for safe keeping. Holding the GAS TANK in place are two straps that are mounted at each end of the tank. Each strap is mounted directly to the frame on one end only. The opposite end is attached primarily by a hook attachment. Remove the two mounting bolts completely. These are located on the driver's side of the TANK itself and the inside part of the frame chassis. Pull the straps down from the driver's side and un-hook the straps from the other end. Next locate the three mounting hardware that bolts the GAS NOZZLE INTAKE, behind the gas door. Remove the three (3) bolts completely. With the GAS TANK supported from underneath, slowly lower the GAS TANK six to twelve inches, pulling the rubber gas neck down as the GAS TANK travels down.

U-BOLT REMOVAL

Before unbolting the u-bolts you will need to properly support the axle to keep it in place so it cannot fall from the leaf springs. There are two sets of U-BOLTS, two per each LEAF SPRING, that is attached to the rear axle. Using a 21mm wrench, un-bolt all mounting hardware (nuts and washers) on each U-BOLT Remove all four stock U-BOLTS completely and set aside as they will be used with the new kit. The LEAF SPRING is now detached from the rear axle remove it from the vehicle. Remove the stock leaf spring block from the axle it will not be used in the kit

LEAF SPRING REMOVAL

Note: LEAF SPRINGS may be under tension. SPRINGS under tension store a great amount of energy. Use caution during the following steps to avoid personal injury and/or damage to the vehicle. Make sure not to damage the brake hoses/and or driveline when re-locating the rear axle assembly. Note: For ease of removal and reinstallation it might be helpful to detach the shocks from the axle housing. With the vehicle raised and the chassis supported with stands, raise the rear axle to remove the load from the shackle. Starting with the front end of the LEAF SPRING towards the engine (front), using a 21mm wrench, un-bolt the hardware and remove completely. With the GAS TANK lowered slightly, you should be able to get to this hardware. Once the bolt is removed, the LEAF SPRING should be able to sit atop the rear axle. With the LEAF SPRING sitting atop the rear axle, move back to the REAR SHACKLE HANGER. Using a 21mm wrench, un-bolt the hardware and remove completely. Also, for ease of re-installation, mark each LEAF SPRING left, right, front or rear to insure that the same ones go back on the same side as they were removed. The center bolt pin on both the LEAF SPRINGS will need to be reversed for proper reinstallation. Use a c-clamp to keep the leaf spring assembly in tack while reversing the center bolt. Reverse both center bolts and re-torque.

AXLE SADDLE PREPARATION

Locate the bracket under the stock saddle that holds the brake line and sensor wire. Detach the brake line and sensor wire from this mount and cut the mount from the axle (10 & 11). The new saddle will have an incorporated mounting surface to reattach these components.

REAR SHACKLE HANGER REMOVAL (STOCK)

With the LEAF SPRING removed and set aside, you now have easy access to the REAR SHACKLE. (One on each side of the vehicle) Below are the steps to follow to remove the stock REAR SHACKLE from the chassis frame. Using a cut-off wheel or a type of abrasive cutting tool, make a slot thru the heads of the rivets, three each on each REAR SHACKLE HANGER. There are three rivets on each side that need to be removed. The slots should be straight thru the rivet heads and flush with the surface they are mounted to. With a pneumatic hammer and chisel attachment, remove the rivet heads. It should take no more than a few seconds to chisel each head off. Once all rivet heads have been removed, it is helpful to use a punch and hammer or a punch with the air hammer to push the rivets thru the chassis. NOTE: if the rivets heads are not easily chiseled off the cut thru the center is probably not deep enough. Increasing the depth of the slot thru the center will increase the time it takes to remove the rivets. Also located here on the REAR SHACKLE HANGER is a single bolt that mounts along with the rivets, to the chassis. Using a 15mm wrench, un-bolt the hardware and remove completely. Remove the entire REAR SHACKLE HANGER completely off the chassis. Also located in this area is the REAR SHACKLE HANGER SUPPORT BRACKET. This is a stock piece that is no longer needed and more than likely will interfere with the new HANGER. Mounted by a small weld to the chassis frame, it is also mounted with a heavy-duty rivet. Using a cut-off wheel or type of abrasive cutting tool, make a slot straight thru the rivet head and flush with surface they are mount to. Using a hammer, channel-locks or vice-grips, pull and push the SUPPORT BRACKET upwards towards the spare tire. Repeat procedure back and forth until it breaks free.

REAR SHACKLE HANGER INSTALLATION

Prior to installing the REAR SHACKLE HANGER, it may be easier to pre-assemble the REAR SHACKLE HANGER and the SPRING SHACKLE MOUNT. Using the kit supplied hardware, bolt up the new REAR SHACKLE HANGER to the existing holes in the chassis. NOTE: It might be necessary to bend the flange on the underside of the bed to allow for additional clearance when installing the hanger in the highest position. NOTE: Located on your new REAR SHACKLE HANGER, are four sets of holes, four on each side of the HANGER. Using the top hole and the third hole from the top, this lowers the vehicle 5". Using the second and fourth holes from the top, lowers the vehicle 6".

LEAF SPRING INSTALLATION

Start with the front end of the LEAF SPRING (towards the engine). With the GAS TANK still slightly lowered, install the original hardware from the GAS TANK side outward towards the driver's side of the vehicle, thru the frame and the LEAF SPRING eye. Start the lock nut, but do not tighten completely. Swing the LEAF SPRING upward. The LEAF SPRING will now locate underneath the rear axle. Swing the rear of the LEAF SPRING upward to the SPRING SHACKLE MOUNT, align the LEAF SPRING eye with the SPRING SHACKLE MOUNT holes. Insert the hardware and but do not tighten completely. This is to be done once the vehicle has been lowered and put on the ground. Using a 21mm wrench, re-tighten the front hardware on the LEAF SPRING.

AXLE SADDLE AND U-BOLT INSTALLATION

Locate the axle ADPATER SADDLES supplied in the kit. Place the ADPATER SADDLES on top of the springs with the hole over the head of the spring center bolt. To properly position the axle, the attached mounting plate for the brake line and sensor wire (If Applicable) will face the rear of the vehicle. Slowly lower the rear axle assembly down onto the saddles. The ears should fit into the stock spring perches on the axle tubes. Make sure both ears on each SADDLE locate completely in the perches. Place the U-BOLT SPRING PAD MOUNTS on top of the axle spring pad and with the stock u-bolts place the horizontal portion inside the two bent flanges so they are locked