



# PART #RK3209-4

## 2009-2010 Ford F150 Rear Flip Kit & Lifting Hanger INSTALLATION INSTRUCTIONS

Please take the time to read these **INSTALLATION INSTRUCTIONS** and check the **Hardware Parts List** to be sure you have all the listed parts.

These installation instructions are prepared for the professional installer with the proper equipment, tools and experience in suspension systems and safety. This vehicle and its components are extremely heavy and can be dangerous without the proper equipment and experience.

Please read the warranty information (blue page enclosed). Complete your Product Warranty Card and mail it to DJM Suspension.

Please take a few minutes to fill out your installation helper (back side of warranty). Accurate measurements **BEFORE BEGINNING INSTALLATION** will show any irregularities in your vehicle.

**NEVER WORK UNDER TRUCK SUPPORTED BY A JACK ONLY !!!  
USE QUALITY JACK STANDS WHICH HAVE A RATING ADEQUATE FOR YOUR TRUCKS WEIGHT!!!**

Rear kit is designed for vehicles with out factory lifting blocks. Vehicles with rear blocks will drop further and require additional parts to achieve desired height.

**NEW REAR SHOCKS ARE REQUIRED, DJM PART #2200 .**

### **Hardware Parts List:**

#### **Flip Kit**

- 2) Lower Axle Brackets.(3204)
- 2) Upper Axle Brackets.(3204)
- 4) 5/8" U-Bolts w/ nuts and washers.
- 4) 5/8" x 3-1/2" Bolts.
- 8) 5/8 Flat Washers.
- 4) 5/8" Nylock Nuts.
- 1) 18mm x140mm Bolt.
- 1) 18mm Nuts.
- 1) 18mm Washers.
- 2) Spring Plates.(3204)
- 2) Bump Stops.(10S)
- 2) Zip Ties.

#### **Lifting Hanger**

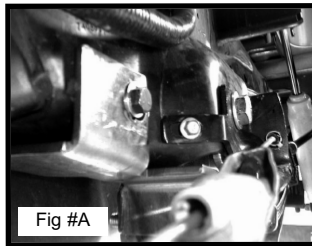
- 1) Left Hanger.(3209)
- 1) Right Hanger.(3209)
- 2) 7/16"x14x5" Bolts.
- 6) 7/16" Washers.
- 4) 7/16"x14 Nylock Nuts.
- 3) 18mm x 140mm Bolts.
- 3) 18mm Nylock Nuts.
- 4) 18mm Washers.
- 4 1/2" X20" X1" Bolts
- 4 1/2" split locks
- 4 1/2" X20 jam nuts
- 2 7/16 X 1 3/4 bolts

Remove rear leaf springs (suggest doing one side at a time). The forward leaf spring bolt on the driver side can not be removed without moving the gas tank. The pros would cut the bolt instead of moving the tank. A new 18mm x 140mm bolt is included to replace the original. The factory spring bolt is reused on the passenger side. The new hanger brackets are left and right. Each bracket has a window to clear the factory bracket. The window is located on the inside on both brackets.

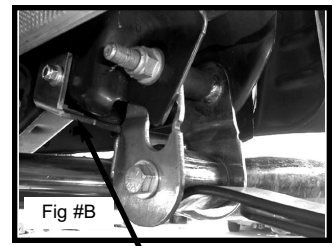


The new hanger bolts to the hole where the leaf spring is located from the factory. Bolt the hanger to the factory spring hole with 18mm x 140mm bolts provided. The brake cable bracket on the driver side is attached in the stock position between the bracket and the bolt. Fig #1A & B.

The new bracket has an additional mount in front of the spring that installs in existing holes in the frame. Use 7/16" x 5" bolts supplied. Fig #2. The drivers side bolt will be reversed

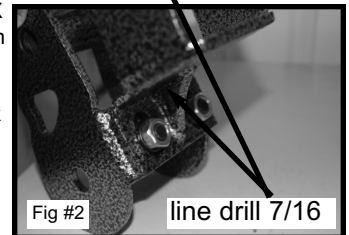


Brake cable bracket installed.



Driver side bracket installed.

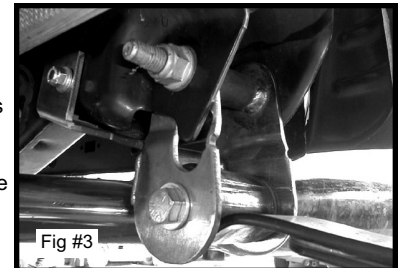
09-10 F150 Bolt together using 1/2" X 1" bolts with split lock washer and jam nuts fell free to add lock tight. Drill 7/16 hole thru the spring bracket and install the 7/16" X13/4 bolt and nylock nut. This will help locate the bracket properly.



**There are two axle locator pins in the factory leaf spring. Reverse the rearward one so the nut is on the bottom. Unbolt and discard the forward one.**

There is a brake line on the back side of the axle. Remove the bolt holding the brake line clip to the axle, just below the leaf spring mount and move the brake line out of the way.

Install the leaf spring to the new hanger with the 18mm x 140mm bolts.(Some may find it easier to attach the spring to the hanger before bolting the hanger to the frame.) DJM suggest leaving the spring bolts loose until the flip kit is complete and the vehicle is on the ground with the tires on. This will reduce the chance of binding of the leaf spring bushing.Fig #3.

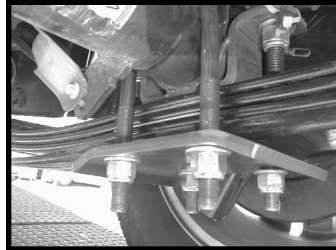
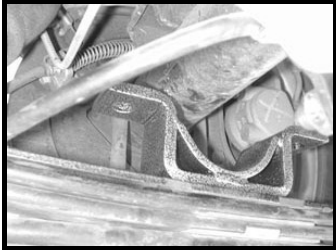




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## 2009-2010 F150 Rear Flip Kit & Lifting Hanger INSTALLATION INSTRUCTIONS cont.

Reinstall the leaf spring under the axle. Place the new axle locator bracket on top of the spring, line up the hole in the bracket with the pin in the spring. Lower the rear axle into the new axle supports.



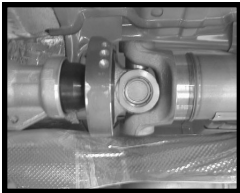
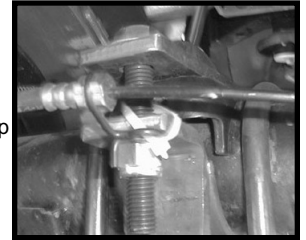
Place the new upper axle plates, with the pin down in the rearward hole, on top of the axle. Install and tighten the 5/8" bolts provided with one flat washers on top of the upper plate and one on the bottom of the axle locator. Tighten U-Bolts. Check all bolts.



Install new U-bolts and spring plates (5 hole) on the bottom of the springs. Tighten u-bolts to hold axle in place, you may need to loosen them again to adjust drive line angle.

Temporarily bolt on wheels and set vehicle down. Tighten shackle bolts and spring bolts.

Use the zip ties to secure the brake line clip to the 5/8" bolt.



Check the drive line angle. You want the drive shaft to be straight from the transmission back to the rear end. This can only be checked with the tires on the ground (at ride height). Adjust pinion angle as necessary.

Remove factory bump stop. The new bump stop will thread into the factory hole in the frame.



Install rear wheels and torque lug nuts. Test drive and adjust pinion angle as necessary. Measure and record the height of the rear on the installation helper.

