

## **FORD F-350 4x4 3-5" Shackle Reversal Installation Instructions.**

- 1 - Hanger
- 2 - Shackles
- 4 - Bushing Halves
- 2 - Bushing Sleeves
- 2 - 1 3/4" Spacers
- 2 - 5/8" x 4 1/2 Bolts, Flat washers and Ny-locks
- 8 - 1/2 x 20 x 1 1/2 Bolts, Flat washers and Ny-locks
- 4 - 9/16" x 5 1/2" Bolts, Flat washers and Ny-locks

\*\*\*These are intended for 92-97 solid axle trucks, TTB will differ slightly, all major measurements are the same.\*\*\*

If you're using a lift spring, you may need to rotate the front hanger rearward and use a shorter measurement than 51.5" stated in step 7. Some lift springs are not created equal and can be short!

1. Remove front bumper and remove front trac arm bolt. (upper bolt)
2. Jack up the front of the truck. Put jack stands under the frame at the rear of the leaf springs and lower the truck so the frame is resting on the jack stands.
3. Remove front tires.
4. Remove front spring bolts. Support front axle before removing bolts.
5. Lower front axle enough to remove front shackles.
6. Install new front hanger, lining up the 5/8" bolts in hanger with factory bolt holes. Install spacer into frame opening and insert 5/8" bolt through holes in frame, new bracket, and spacer. Tighten bolts snug at this time; you will torque all hardware at the end of installation
7. To locate front hanger after installing 5/8" pilot bolts, Measure 51.5" from center of rear spring bolt to center of new front spring bolt hole, clamp front hanger in place so it doesn't move. If using shorter than 52" factory length springs this dimension will need to be changed in order to fit correctly.
8. Center punch and drill 1/2" inch holes into frame through front cross member locations as marked by 1/2" inch holes in shackle reversal. Install 1/2" inch bolts ,nuts , flat washers . Be sure to use red Loctite and torque to nominal specifications. Now is the time to replace the spring bushings if you plan to do so.
9. Using factory bolts,install spring shackle in rear frame hanger. Use new hardware to install springs and torque to specs.
10. Check to make sure brake lines are not stretched. You may have to bend the hard line at the calipers toward the frame and/or bend down the tab that holds lines at frame
11. Install front bumper.
12. Install tires , raise the front of the vehicle and remove the jack stands place vehicle on ground and torque wheels to manufacture specs.
13. Remove factory trac bar and install adjustable bar. It helps to use the steering when aligning all the holes. Simply start truck and turn left or right slightly to Align.