

# ***ARMOR TECH***

## ***OFFROAD***

### **05+ Tacoma Rear Shackle Flip Kit**

1. First jack the rear of the vehicle up and place jack stands under the frame rails just forward of the front spring hangers. Then lower the truck down onto the jack stands. Make sure the jack stands are set high enough to allow the rear axle to completely drop so that it is hanging from the springs and the tires are not touching the ground.
2. Place the jack under the center of the rear axle and apply a slight amount of pressure to it.
3. Remove the bolt that secures the shackle to the factory hanger and place to the side for later use (Fig 1).



Fig 1

4. Next locate the 4 rivets that hold the factory hanger to the frame. Grind the heads off until they are flush with the hanger surface. Then drill a 3/16" hole directly through the center of the rivet about 3/4 of the way through. This is to weaken the rivet to allow it to be removed. Once the hole is drilled use a punch and hammer to drive the rivet out the back side of the frame. (this step may take some time but it is possible!)
5. Once the factory hanger is removed clean up the frame; we advise to apply some paint to the surfaces to help prevent rust (Fig 2).



Fig 2

6. Next using a  $\frac{1}{2}$ " bit, drill through all the mounting holes in the frame, making sure to also drill through the crossmember. Then install one of the included 1" bolts through the rear hole in the bottom of the frame, passing through the crossmember and tighten. This bolt holds the frame and crossmember together. Then drop one of the supplied  $1\frac{1}{2}$ " bolts through the front hole in the bottom of the frame (Fig 3).



Fig 3



7. Next you need to remove the shackle from the spring and turn it 180 degrees and remount it to the spring (Fig 4).



(Fig 4)

8. Next slide the new hanger over the bolt you placed through the bottom of the frame, then insert the remaining two 1" bolts through the frame. Hand tighten all nuts first. Then starting with the bottom bolt tighten all bolts securely.

9. Then flip the shackle up into place, you may have to raise or lower the jack that is supporting the axle to align the shackle with the hanger. Then re-install the factory bolt through the shackle and tighten (Fig 5).



(Fig 5)

10. Re-check all hardware to ensure that everything is tight!! Then repeat steps on the opposite side.

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