

# Bent and Twisted Fabrication

NESS CITY, KS - (785) 798-BENT

## Installation Instructions

### POLARIS RANGER 1500

#### BOLT SET

##### Required Tools

- 1-3/4" Hole Saw
- 1-1/4" Hole Saw
- Drill
- T40 Torx
- 10MM Socket
- 1-1/6" Socket or Wrench
- 3/8" Ratchet
- 2-5/16" Wrenches or Socket
- 3/4" Wrench (Stubby Combination Wrench preferred)
- 7/16" Bolt w/ Double Nuts (provided for you in bolt set)

- 1 Begin by jacking up your Ranger and remove the skid plate.



- 2 Locate the factory markings on the plastic on each side of your machine and carefully drill your 1-3/4" holes using your hole saw. It's best to find the center and start with a pilot hole. Drill a 1-1/4" hole on the rear upper mounts. (Some additional plastic may need trimmed around the holes.) The upper mounting tube is much smaller than the lower ones.

- 3 UPPER MOUNTS:  
The rear upper mounting bracket we send uses the 2 factory holes in the side frame by the upper mounting hole you drilled. Run the 5/16" x 2" long bolts down through the frame with the bracket on the bottom with the tab pointing up with the hole in it. Leave this bracket loose until the very end. The 1/2" x 1-1/4" bolt goes through the bracket tab and screws into the upper mounting tube. Each bracket is marked with a "D" for Driver's Side or a "P" for Passenger's Side.



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(continued)

##### LOWER MOUNTS:

**4** The 1" tube with washer tacked to it goes into the frame hole from the back side of the frame. This is used to take up the extra room in the hole of the frame.



**5** On our Step Series, Double Barrel & Basic Series, the 3/4" x 6" & 6-1/2" Bolts will go in from the front side, through the slider, & through the frame, with a Nylock Nut on the back side. On the Bruiser Series, the bolt has to go in from the back side, and the Nylock Nut on the outside of the slider.



**6** Tap the bolt into place. On the Bruiser Series, the rear mount on the Driver's Side, you will have to tap the bolt by the fuel tank, and this can be done by using a floor jack and putting a little pressure on the fuel tank. (The bolt head might rub the fuel tank some, each vehicle is different.)

##### HEX HEAD TOOL:

**7** Most customers might not have a hex tool large enough to fit the supplied 3/4" bolts, so we send a 7/16" bolt with double nuts that will fit the hex head to use as a tool.

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*(continued)*

**8** The (2) 3/4" x 6" bolts go in the front, lower mounts, one on each side. The 3/4" x 6-1/2" bolts go in the other mounts. (We use stainless bolts to keep the heads of the bolts from rusting on the outside of your vehicle.)

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**9** After all of the hardware is installed, tighten everything up.

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**10** Congratulations on the installation on your new rock sliders! Please contact us if you have any trouble with the install or have any feedback.

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**THANK YOU FOR YOUR BUSINESS!**

# Bent and Twisted Fabrication

NESS CITY, KS - (785) 798-2184

## Installation Instructions

### **POLARIS RANGER**

#### **BOLT SET**

##### Required Tools

- 7/16 drill bit and drill
- 9/16 wrench
- 9/16 shallow socket
- 3/8" Ratchet
- 10" extension
- 1-3/4" hole saw
- Floor Jack
- T40 Torx
- 2 jack stands or extra set of hands capable of holding the sliders in place
- Pliers
- File or 1/4" flat chisel

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**1** Start by using the 1 3/4" hole saw to cut the factory holes that are outlined on the body sides and the rear upper mount.



**2** Using a 7/16" drill bit, drill out the 4 factory holes.

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**3** Remove the lower rear T40 torx bolt off the frame (in front of rear wheels) and drill a 7/16" hole all the way through the frame. Clean up inside of frame with file so bolt sleeve fits in frame.

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**4** Mount sliders in body and use Floor Jack to support the sliders (or have another person hold them in place). Install the upper rear bolt with a washer (longest one of the long bolts) and put washers and nut on finger tight to hold in place (if you do not have jack stands or a helper).

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## POLARIS RANGER BOLT SET

*(continued)*

5 Use the 3 shorter of the 4 long bolts used and push them through the mounts on the sliders with a washer in the bolt. If the middle bolt does not line up with the factory hole you may need to jack the sliders up with a floor jack in the middle. There is a slot in the factory skid plate for direct access to install the washer and nut on the bolts. It's easier if you use the open end of the 9/16" wrench and put tape on one side and put the nut in the wrench to hold it up while you spin the bolt to start the nut. Leave all 3 of these finger tight.



6 Install the metal sleeve into the lower rear frame (will need to clean up the inside of frame with a file so the sleeve fits in) by holding sleeve with a pair of pliers and install bolt and washer (3.5" bolt length) through the frame and put washer and nut finger tight.



7 Check to make sure doors open & close correctly.



8 Tighten up nuts/bolts.



**THANK YOU FOR YOUR BUSINESS!**