



Thanks for your purchase of our 2017+ Ski Doo Gen 4 850 SP Skinny boards. These will fit the following:

2017+ Gen 4 850 SP 146"-165" models.

Please read instructions and view pictures entirely before installation. This sled requires extensive cutting. If you haven't wrapped your sled yet with vinyl this is a perfect time. You can install the wrap on tunnel only first so the boards will overlay the wrap, or cut the wrap to fit around the edge of the board side plate. Install the side panel block off plates before wrapping the sides. This will allow you to use the wrap to cover them up if you wish.

Here is what is included with the boards:

- (6) Rivets
- (12) Large Head Rivets
- (22) 1/4-20 x 5/8" Truss Head Bolt
- (2) 1/4-20 x 3/4" Truss Head Bolt
- (10) 1/4-20 x 1" Flanged Head Bolt
- (34) 1/4 - 20 Flanged Nut
- (1) Set of Left and Right foot well brackets.
- (1) Set of Left and Right Side Panel Block Off Plates
- (1) 12" Long 1/4" Drill Bit
- (1) Cutting Template for the block off plates (x2)
- (1) 100 count bag of traction screws

1. Remove side panels. Refer to first picture for which rivets to remove.

2. Once the rivets are removed, remove the skid to help finish install. *NOTE: Use center punch to knock out the center pin out of the rivet. This makes drilling them out MUCH easier.*

3. Refer to pictures on removing the pressed rivets along the tunnel side running board brace. You will have to grind these flush with the INSIDE of the tunnel, do not go too deep. Once ground, the brace will pop off the tunnel side.

4. Refer to pictures for where to cut factory running boards and tunnel. Left and Right side of sled will be cut the same. Most pictures reference the Left side of snowmobile.

5. Once all your cutting and trimming is done. Start by installing the Left and Right foot well brackets. Re-use factory hardware for these. The Left side is longer than the right side bracket. These will be coated black regardless of board color.

6. Set the running board on sled and align the front arm rear suspension arm bolt up. Leave the skid out for now. You will want to clamp the board to the tunnel, make sure the suspension bolt slides in and out of the hole easily! Once clamped, install a few of the 5/8" long truss head bolts in the running board. Also make sure the rear suspension bracket lines up as well. You will need to tighten a few of the truss head bolts at this point. If some of the bolt holes don't line up, use a 1/4" drill bit to clearance them, you may have to drill from the inside out to reach the holes. We have found some variation from sled to sled. Just make sure the suspension bolt fits LOOSE or you will fight putting the skid in after the boards are installed. **NOTE: DO NOT CRANK ON THE 1/4" BOLTS WHEN TIGHTENING. THEY ARE ONLY A 1/4"!!**
Also make sure the nylock nuts are on the outside!

7. You will need to drill new holes in the running board to mount a few more bolts. Utilize the factory rivet holes (the ones you ground down from the inside of tunnel) as a guide and drill from the inside of tunnel out (1/4"). You will need to drill 3 holes.

8. On the rear of the board, use the included 1/4" bit to drill through the tunnel from the OUTSIDE using the holes in the board as a guide. Refer to pictures. There are 2 holes to be drilled. The rear most hole in the side plate may have to be clearanced as well. Use the 3/4" long Truss head bolt here. One on each side.

9. The farthest hole forward on the side plate of running board will need to be drilled from the outside with included drill bit.

10. For the rear suspension hanger, use the 1" Long 1/4" bolts. Tighten these at this point too.

11. Jump to the very front of the board where the board tab contacts the foot well bracket. You will need to use the included drill bit to drill through the lower outer most hole. Install the same 1" long bolts used for suspension hanger. Install both bolts and nuts on each side.

12. The rear board mount will need 3 - 1/4" holes drilled. Refer to picture. You should re-install the rear suspension at this point.

13. There are 3 rivets to install on each side. These are located on the bottom. Refer to pictures. use a 3/16" drill bit.

14. Locate the paper templates shipped with your boards. Cut these out, you will use one for each side. Refer to pictures for placement. Use a marker to trace the template. Cut on the inside of your mark. We use a cut off wheel to do the rough cut, then go back with a die grinder or dremel tool to clean up any sharp edges.

15. Refer to pictures for placement of the plate. The hole in the plate is not used for install so do not install a rivet in those. Take your time lining the plates up. Use the supplied large head rivets to secure the panel in place. 3/16" drill bit is required. After plate is installed, re-install a large head rivet securing the right side panel to the bottom in the factory location. The left side uses a factory screw.

16. Now to install the traction screws. Lay out the pattern by measuring and using a marker. We start with 2.5" spacing on the outer tube of the running board. On the inside smaller tubes, we have been putting only one screw in the center of each tube. You may want to change the pattern or add more but we only supply 100 screws with a set of boards so lay out your pattern first before drilling. Use a 1/8" drill bit to pilot drill, then use a impact driver and run the screws in until the head touches the tube.

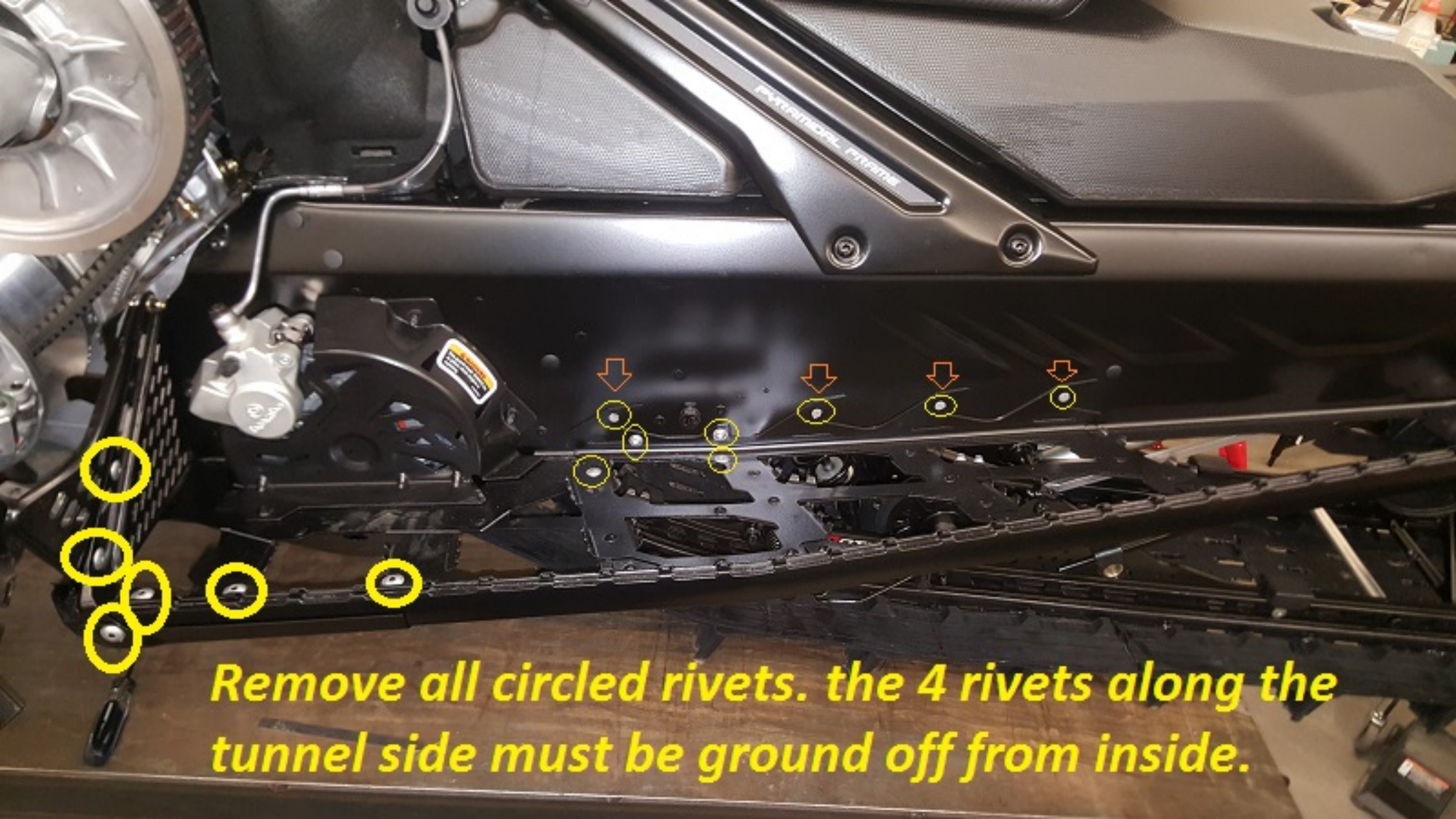
Any questions or concerns please call or email us!

B&M Fabrications

612-202-9245

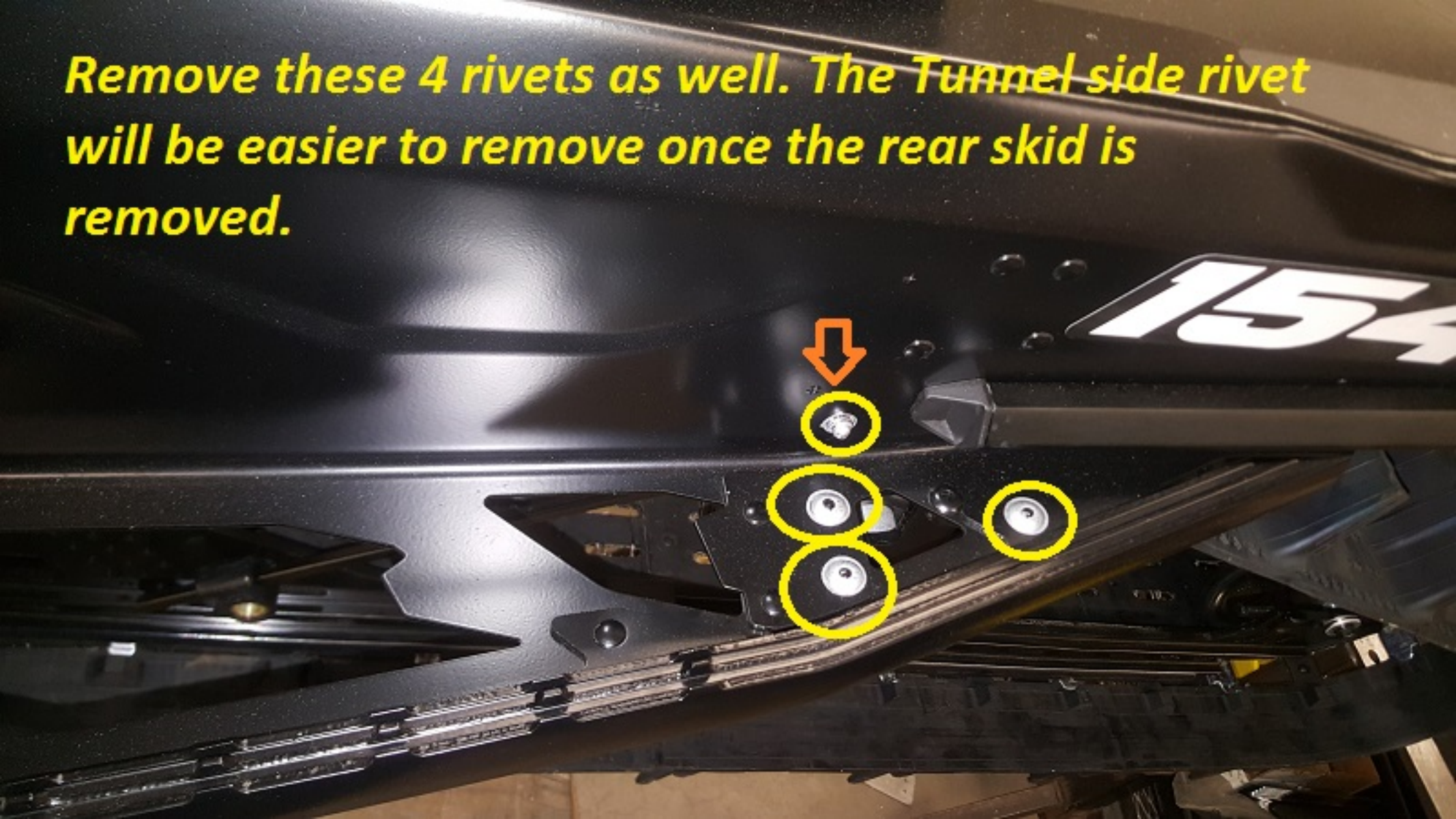
info@bmfabrications.com

www.bmfabrications.com



Remove all circled rivets. the 4 rivets along the tunnel side must be ground off from inside.

Remove these 4 rivets as well. The Tunnel side rivet will be easier to remove once the rear skid is removed.




View from inside the tunnel. Carefully grind these rivets FLUSH with the tunnel. Shown is 3 of the 4 rivets.



The yellow marks are where you will rough cut the running board to remove it from the sled.



A close-up photograph of a vehicle's rear suspension assembly. The image shows a dark-colored metal frame with several cutouts and bolted joints. A yellow dashed line is drawn horizontally across the lower part of the frame, indicating a specific cut line. The text overlay at the bottom left provides a warning not to cut into the rear suspension hanger.

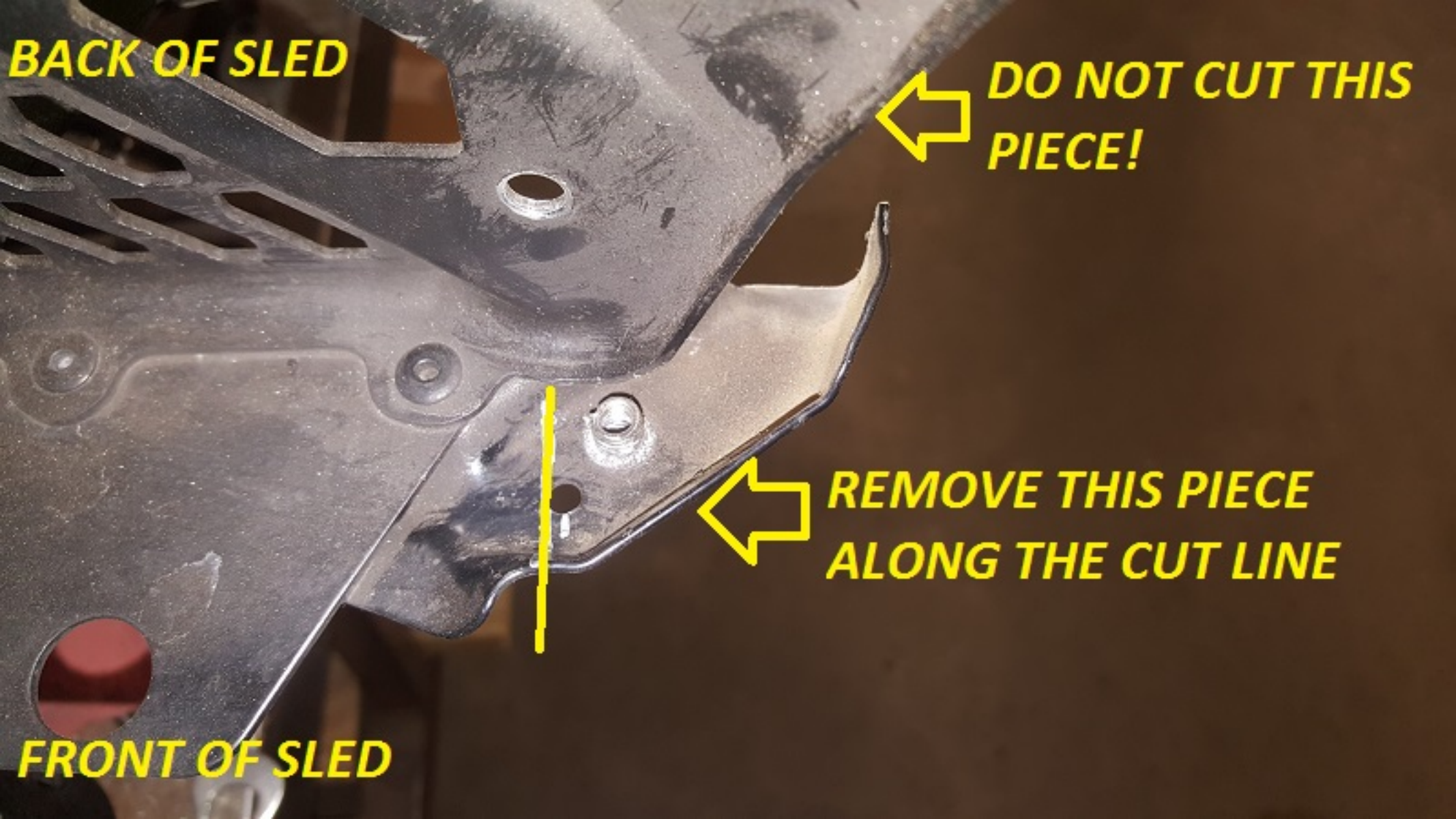
The cut line for the rear. DO NOT cut into the rear suspension hanger

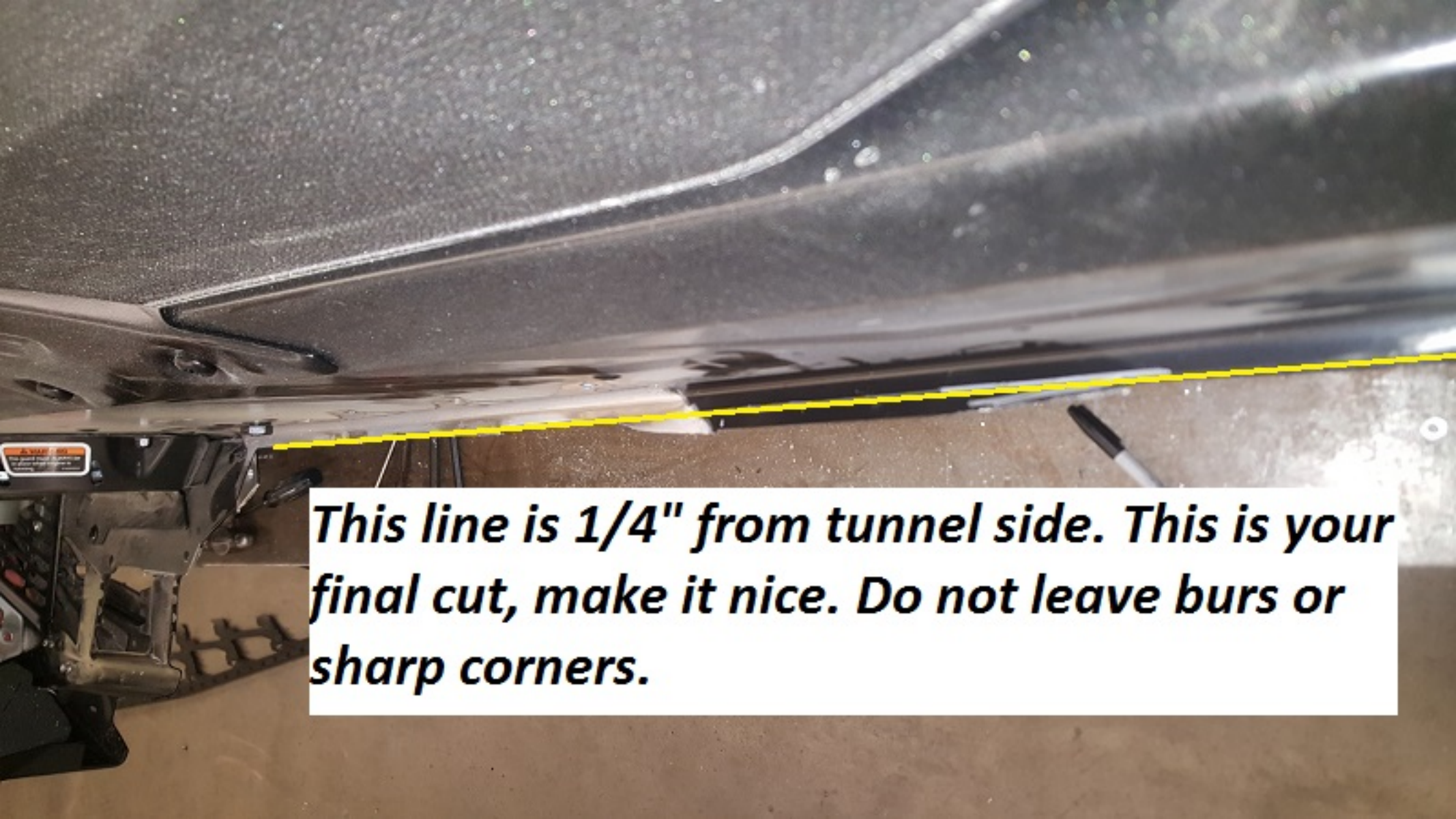
BACK OF SLED

**DO NOT CUT THIS
PIECE!**

**REMOVE THIS PIECE
ALONG THE CUT LINE**

FRONT OF SLED

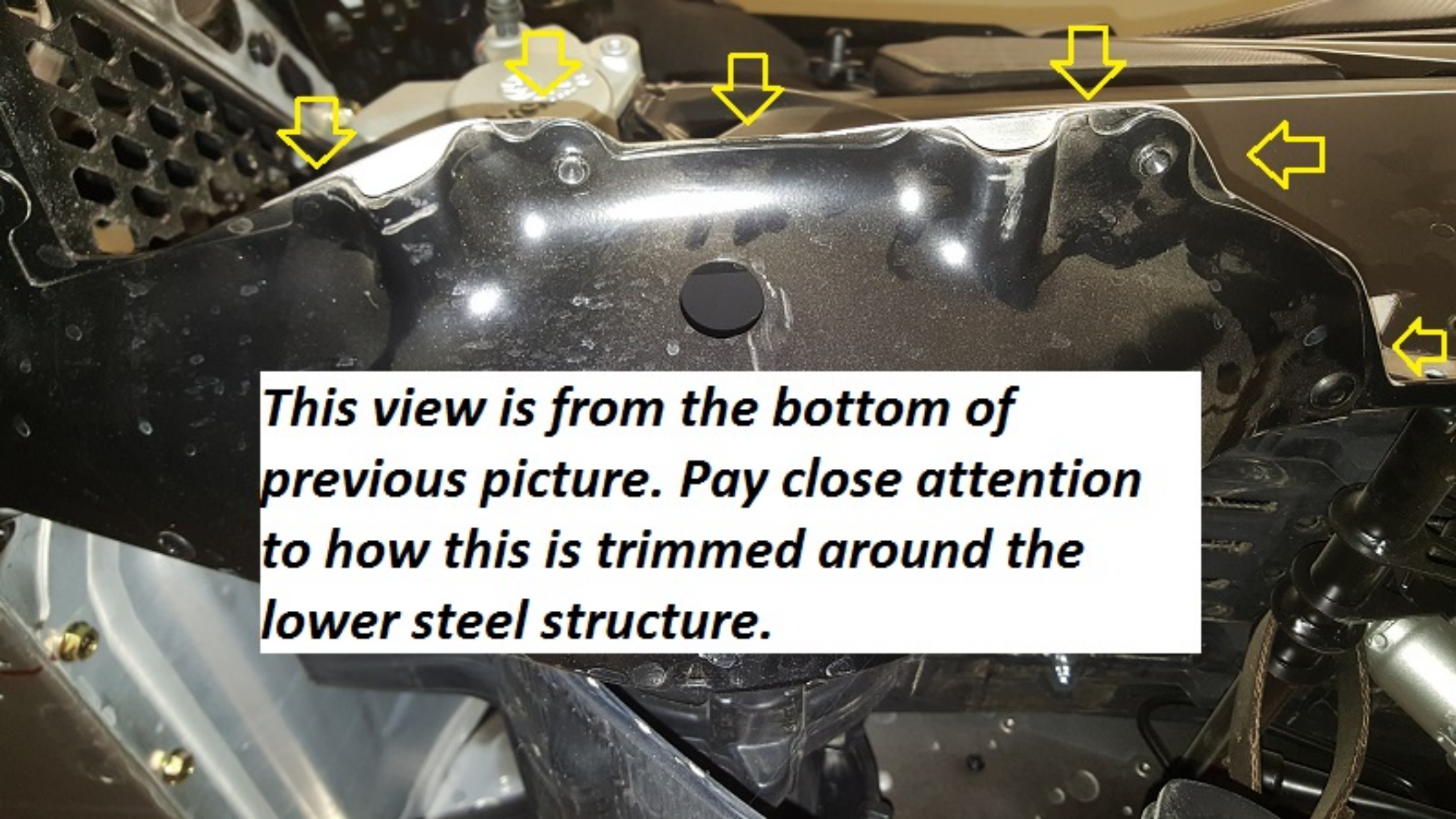




This line is 1/4" from tunnel side. This is your final cut, make it nice. Do not leave burs or sharp corners.

Here is the front cut and cleaned up. Try to copy this as best as possible. The RED lines shown represent a factory edge to give you an idea where to cut.

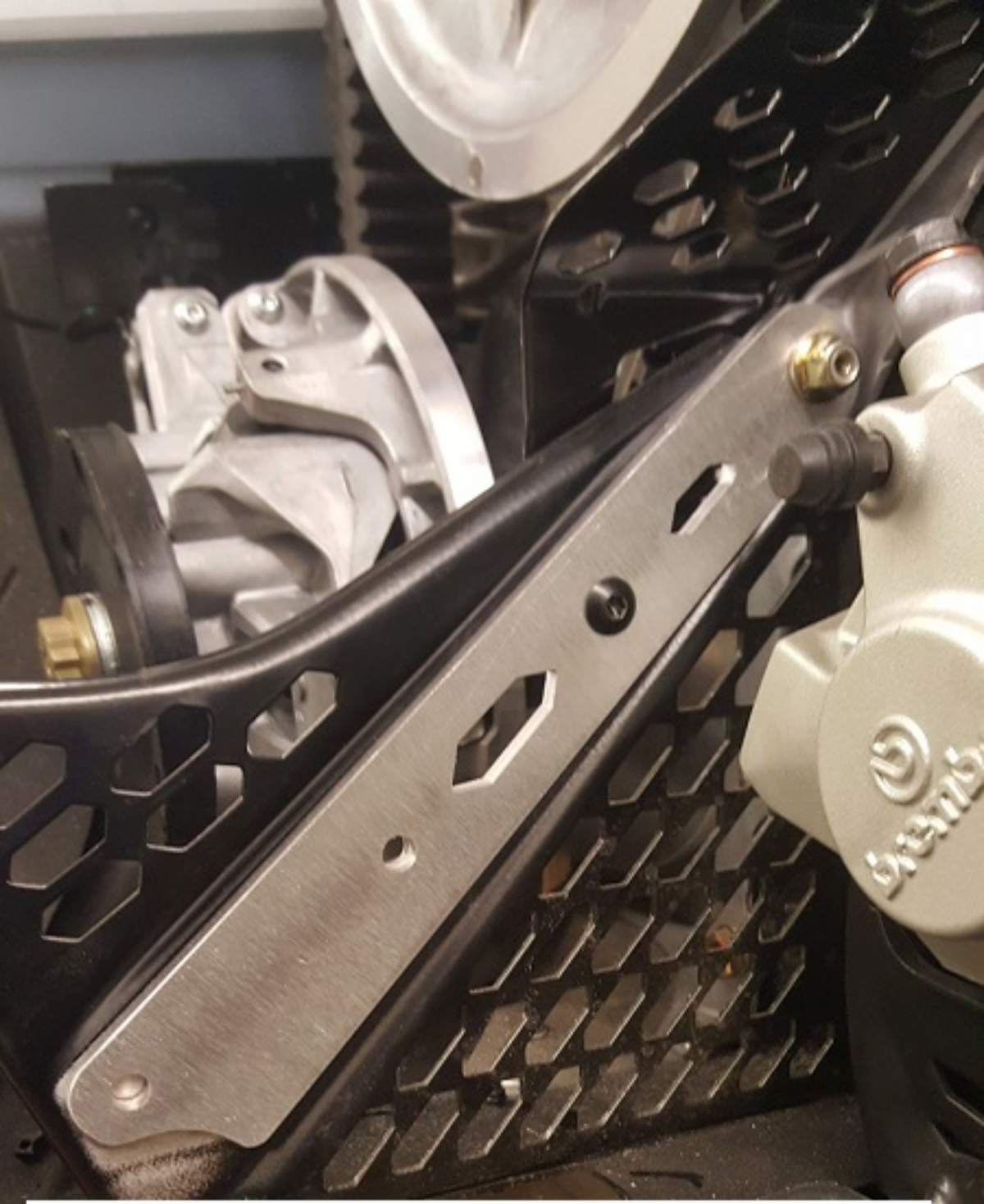


A close-up photograph of a black metal automotive component, likely a bumper or fender liner, showing its complex shape and how it is trimmed around the lower steel structure. The component has several mounting points, a central circular hole, and various cutouts. Six yellow arrows point to specific features: two on the top edge, one on the left side, one on the right side, and two on the bottom edge. The background shows other parts of the vehicle's underbody, including a perforated metal plate on the left and a suspension component on the right.

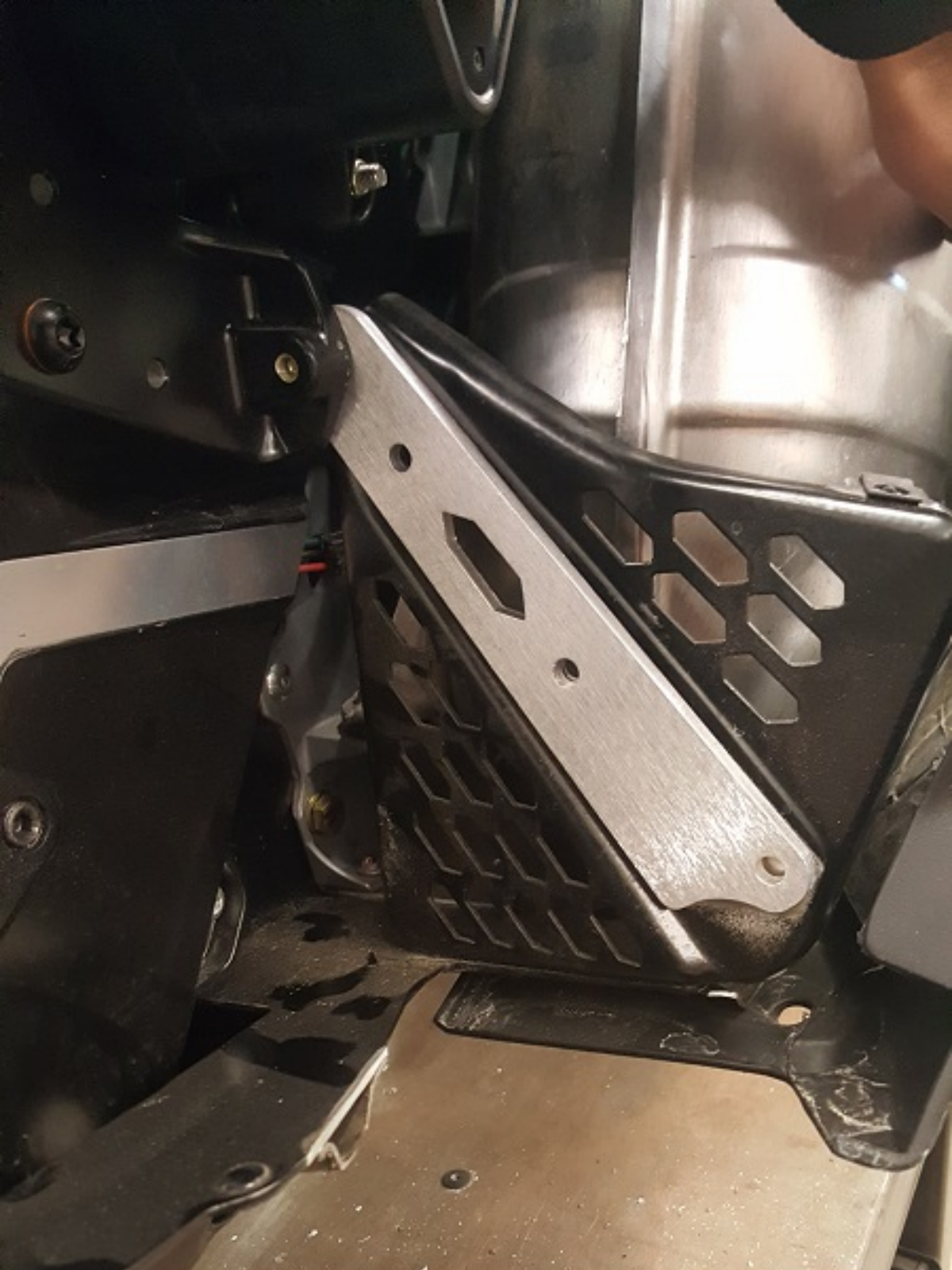
This view is from the bottom of previous picture. Pay close attention to how this is trimmed around the lower steel structure.



Here is how the rear looks trimmed with the factory board removed.

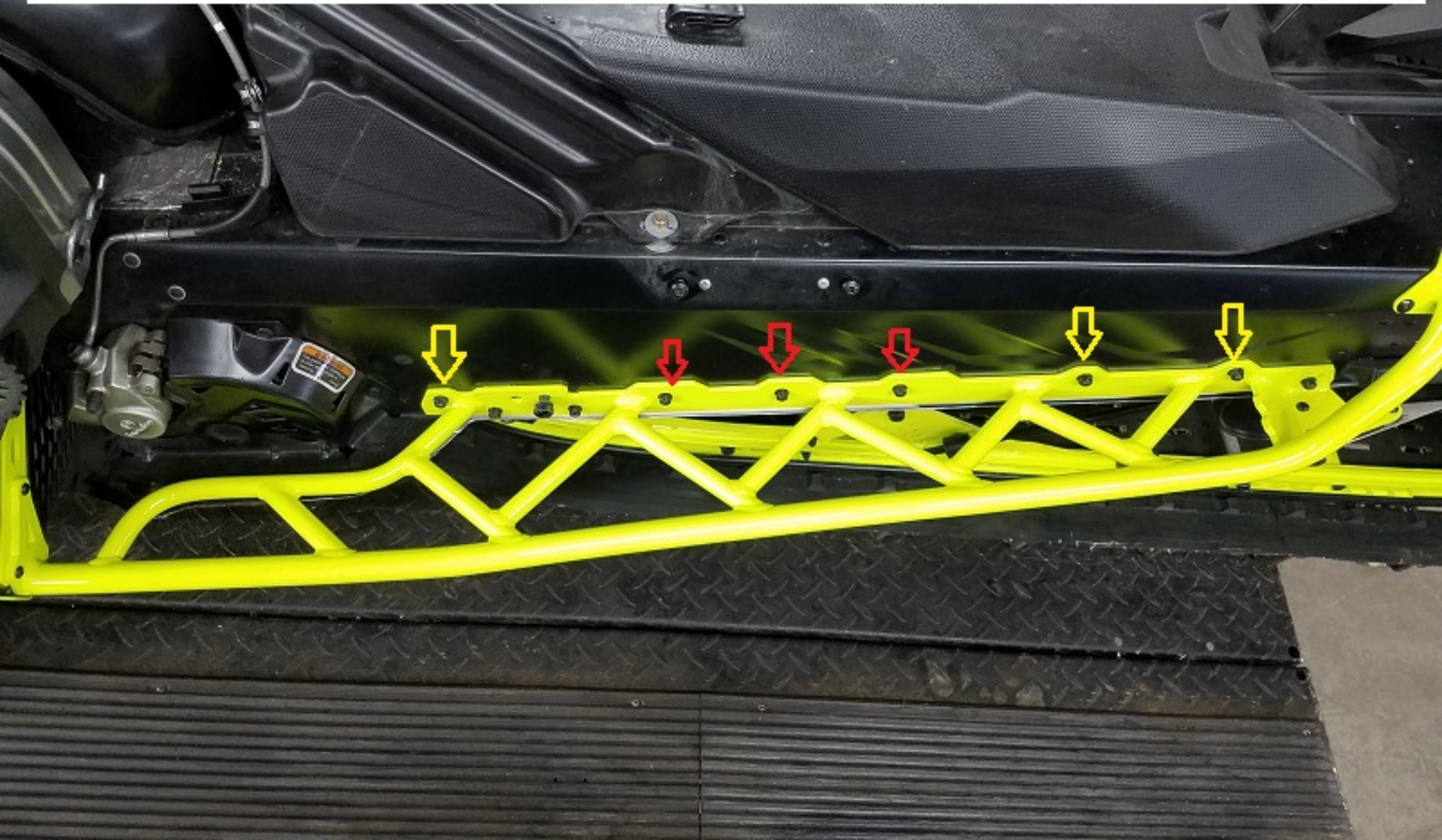


Install bracket with factory hardware. Note the orientation of the bracket. Align the holes and tighten. Shown raw for clarity.



Right side detail. Re-use factory bolt. Align holes and tighten.

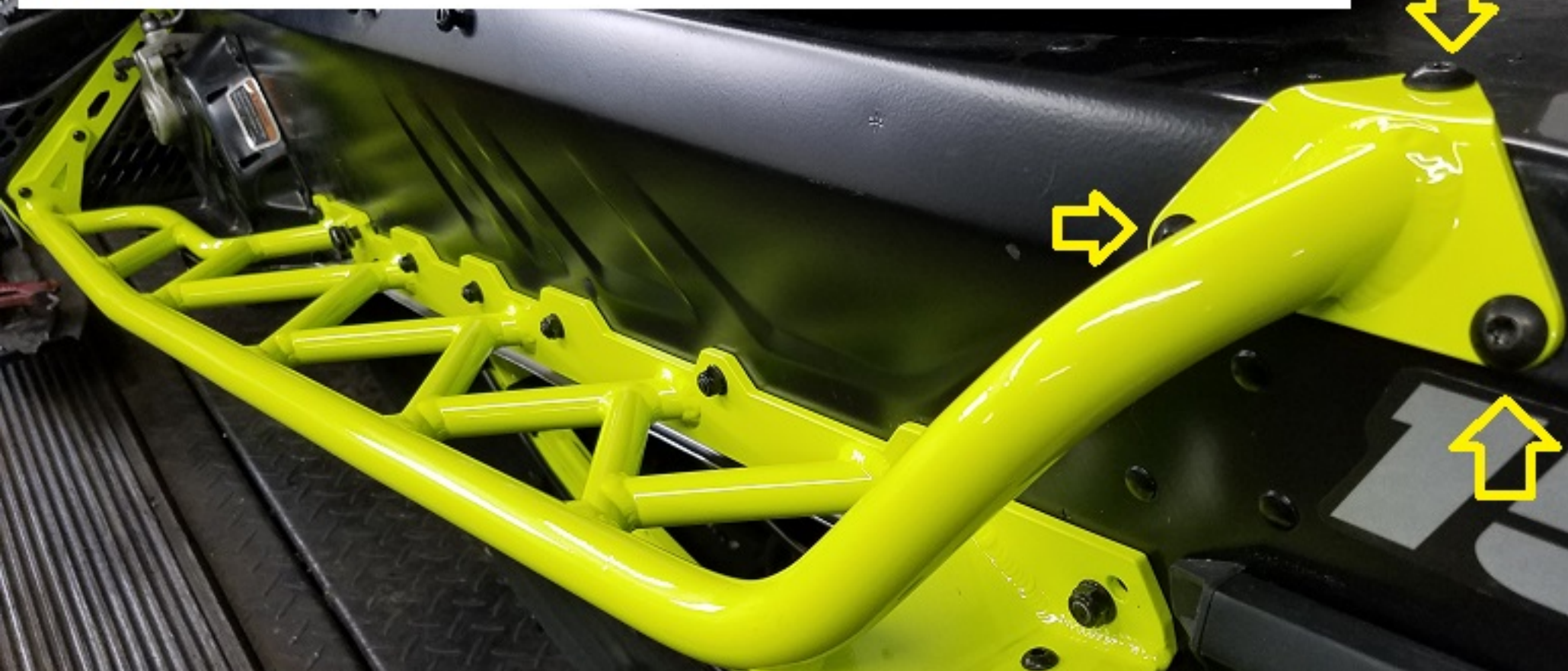
RED arrows indicate holes drilled from inside using factory rivet holes as a guide. Yellow arrows show holes to be drilled from OUTSIDE with the board as the drill guide.





Use the included drill bit to drill this hole through the factory toe plate. install both 1" bolts and nuts at this time.

Drill 1/4" holes in tunnel for the rear mount. Use 5/8" long truss head bolts and nylock nuts as shown.



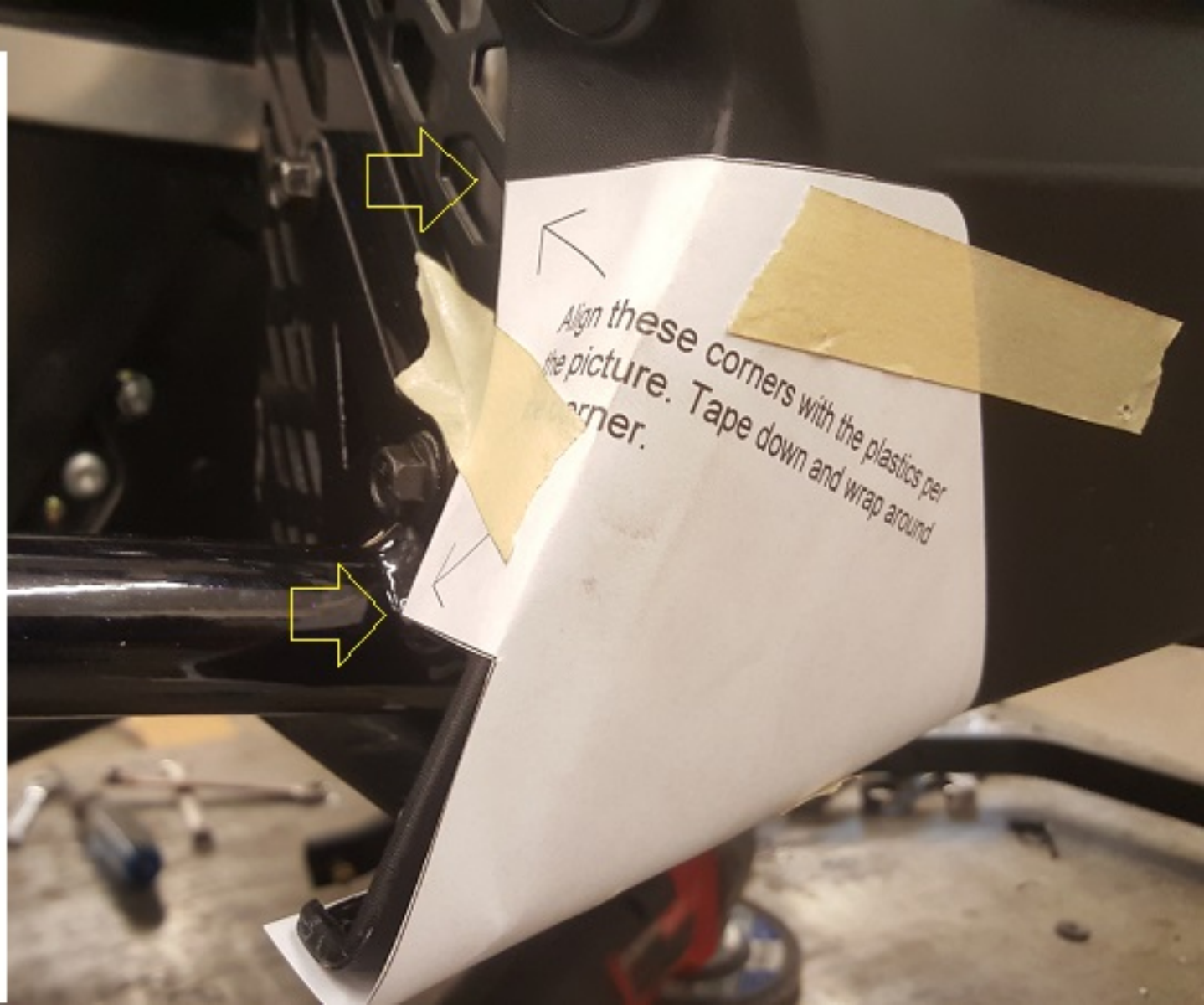
Use 1" long bolts as shown for the rear hanger.





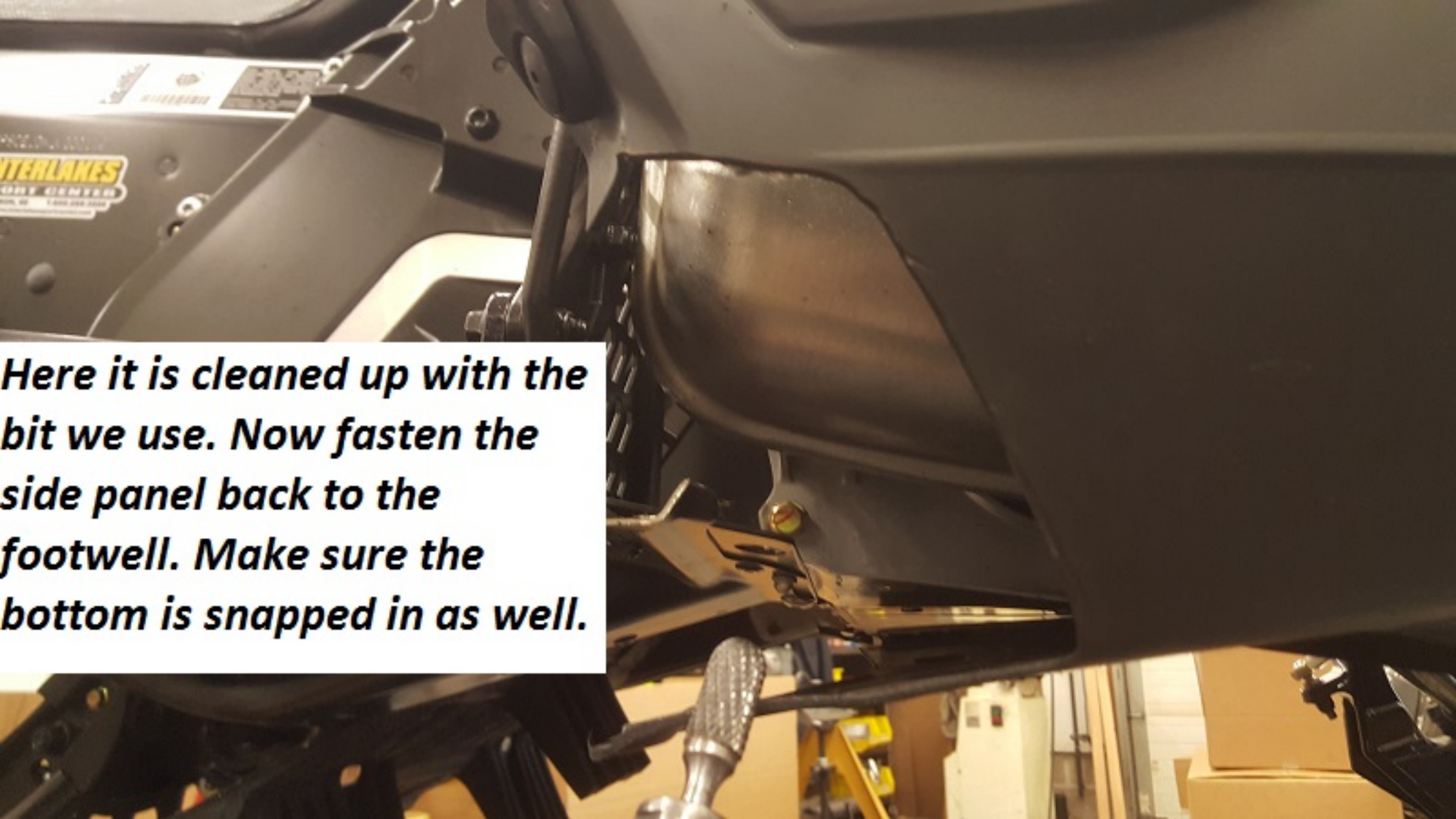
Use 3/16" Drill bit and install the 3 rivets in these rough locations. Make sure the rivets will enter the center of the running board tube. Try to keep them on the flat area so they are not drilled into the bend of the chassis plate. Both sides will look the same.

Align the template as shown. Pay attention to lining up the arrows with the plastic edges. Trace the template and remove it to start cutting.



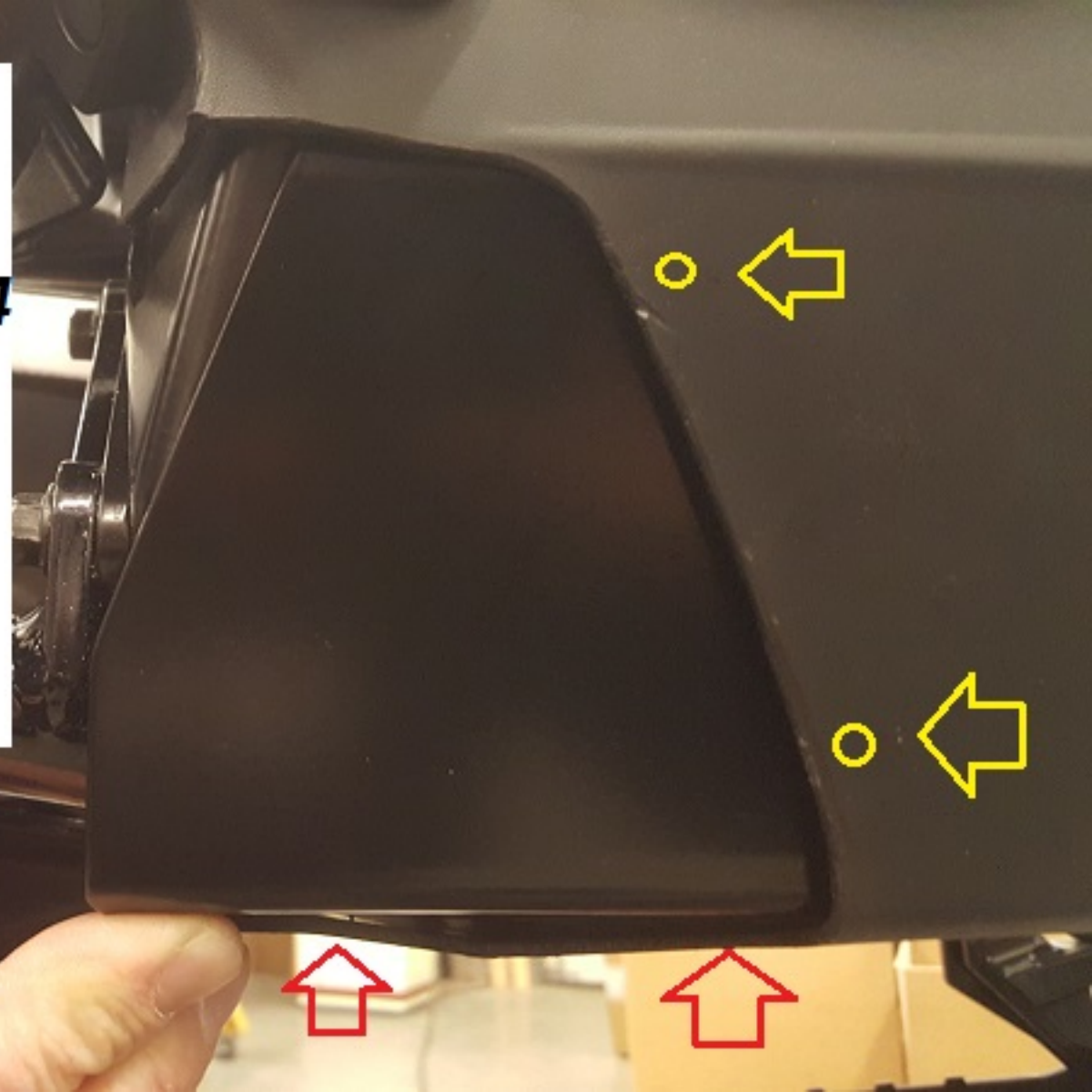
Here is the piece after the rough cut. Now clean the edges with a die grinder or something similar. Leave no sharp corners.



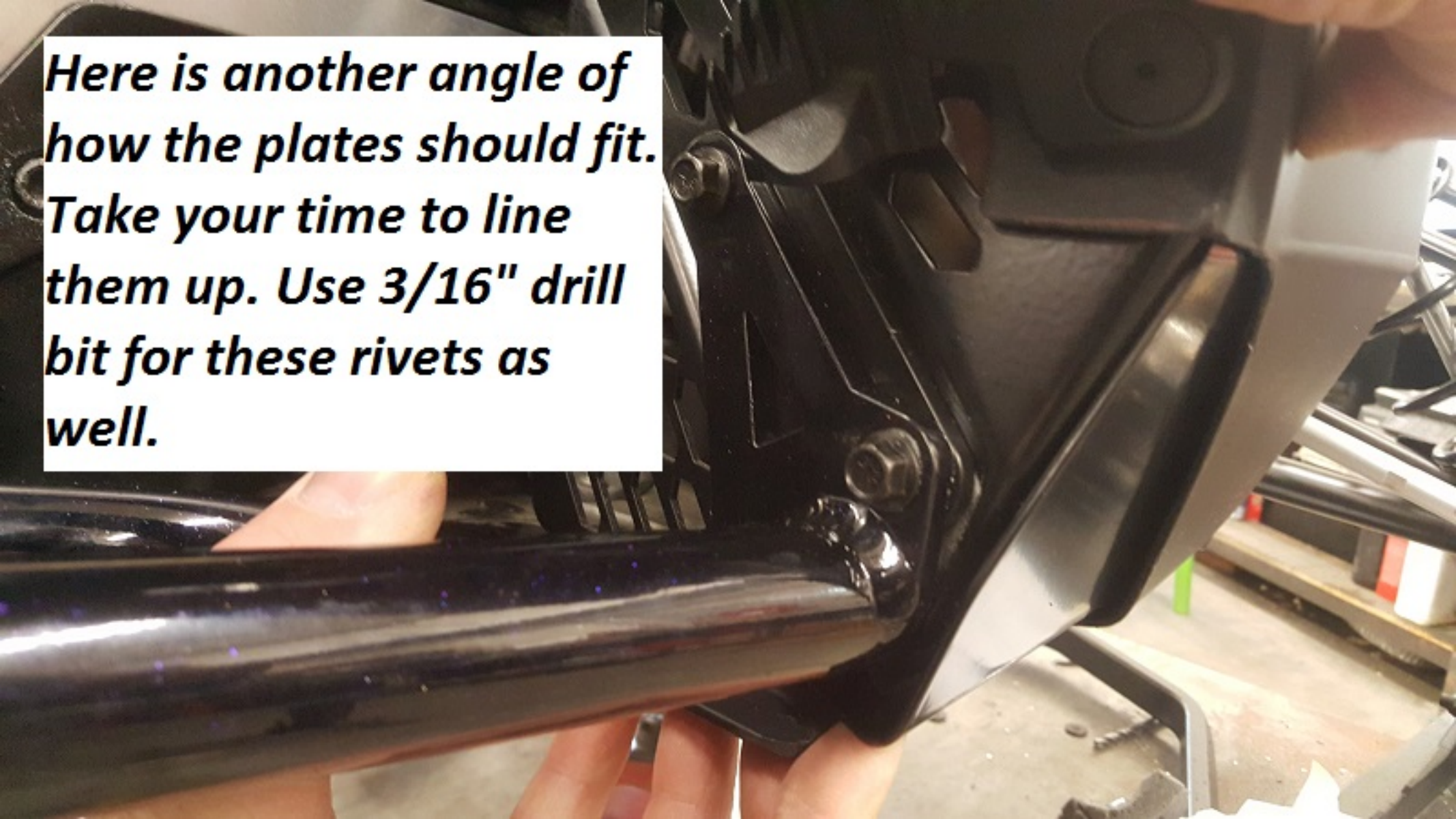
A close-up photograph of the lower part of a motorcycle, specifically the footwell area. The image shows a black plastic side panel being worked on. A silver metal footpeg is visible in the lower center. In the upper left, there is a yellow and black sticker that says "INTERLANES". A white text box with black text is overlaid on the left side of the image.


Here it is cleaned up with the bit we use. Now fasten the side panel back to the footwell. Make sure the bottom is snapped in as well.

Line up the plate as shown in the next 2 pictures. You will install 4 Large head rivets. on each plate. Arrows indicate where to place rivets.



Here is another angle of how the plates should fit. Take your time to line them up. Use 3/16" drill bit for these rivets as well.



A close-up photograph of a metallic surface, likely part of an aircraft fuselage, showing several rivets. A white rectangular text box is overlaid on the right side of the image. The text inside the box reads:

Here is the finished rivet locations.



The yellow dots represent screw locations. This pattern uses 48 screws total, 24 each side. You may want to add more towards the front of the board. We start with the minimum and add more as needed.