

# ***RXL Hood Assembly***

4/24/15

## **Warning**

It is just too easy to scratch the nose and/or hood when installing or removing the hood. The little ring on the Dzus ¼ turn latch is meant as a finger hold as your other hand grabs the back of the hood. You must ever be mindful to avoid scratching the gelcoat surface. You will be able to do this smoothly in time. If you have black hood and get a white (deep) scratch you can cheat with a thin point Magic marker and blend in with a finger. Blue? Maybe one of those auto chip matching kits?



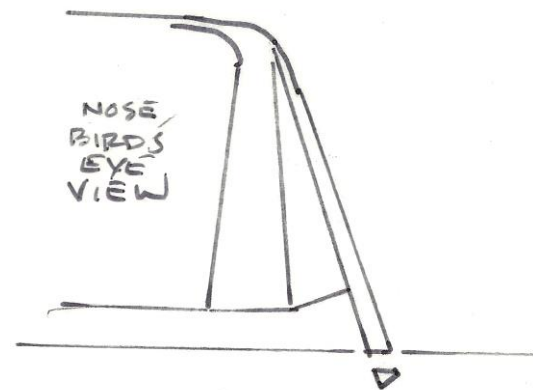
## **Parts supplied**

This is what your 50 bucks got you;  
Row one (left)-Major plate parts  
Row two, bottom- 2" hood mount assembly screws w/ 5/8 dowels  
Row two, top- Dzus parts  
Row three-six 1" nose mount Allen screws  
Row three-four short hex screws hold plates together

## **Mission One**

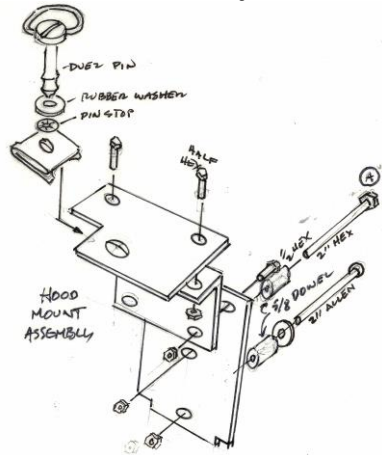
Remove exhaust-you need room to work.

## **Mission Two-Install nose**



File off the edges of the bumper on the nose. You want the angle to match the real aluminum bumper. These mating bumper edges are how you align the nose with the pan. I supplied six black 1" Allen screws and Nyloc nuts. Mount the nose with them. Jiggle the nose so the bumpers line up. You may have to slot the holes if your aluminum bulkhead has taken too many tree shots over the years.

### Mission Three-Install hood mount assembly



I supply the Hood Mount Assembly together to ease installation. With the nose off insert 2" hex bolt thru the top center hole in your bulkhead. Bolt goes in from the front. Next slip on a 5/8 dowel-this goes between bulkhead and Assembly. Run bolt thru center of Assembly and loose-fit the lock nut. All the other short hex screws can be loose for now. (We'll come back to this.)

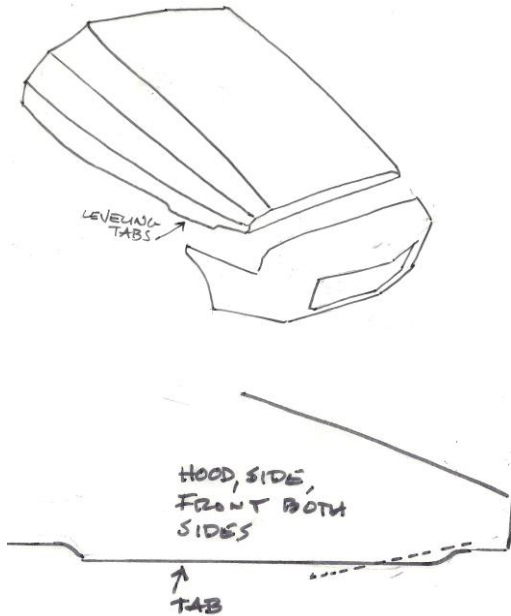
### Mission four-finish hood mount assembly



Using your hand drill make a hole from inside the belly pan through the bottom center hole (see it on the bottom without a bolt in it.) This hole is going right through the fiberglass nose. Insert the 2" black Allen screw and washer from the outside. Get the 5/8 dowel between bulkhead and Assembly. Now you can cinch down the assembly. This part is done.

**Warning**  
Non stock exhaust applications may require you to modify the Hood Mount Assembly. See the last entry in this manual

## Mission five-fit the hood



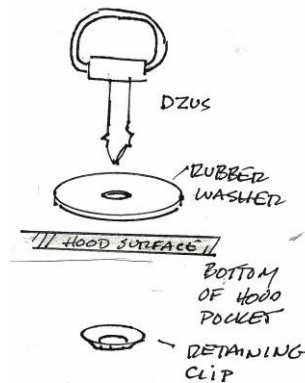
I added longish tab to the front edges of the hood. These are designed to be ground away to level the hood into the bumper tray to match surfaces of the nose and hood. On the few hoods I've done I've only had to grind off the leading corner (see dotted line.) It's hard to say how much you'll have to remove. The key thing is when you force the hood forward toward the nose (to close the gap) you want the entire deck surface dead nuts flat. Take a bit off at a time so you don't too far. The amount taken from each side can vary. Your goal is to close the gap and level hood/nose.

## Mission five-install Dzus pin

We should talk about how the Dzus works. The Dzus locks under tension from 1) the spring parts of the Lock and 2) from your hood itself. At the end of these instructions you will have to push the Dzus down sorta firmly to engage the lock and lock with  $\frac{1}{4}$  turn. Once locked it will stay there and the D-ring will fall into the hood pocket.



The thing with the D-ring is the quarter-turn Dzus fastener. The little dished washer is the retainer—once the Dzus is in your hood you can't lose it—(this is the last thing you do). I have included a rubber washer that goes under the Dzus head. It helps protect the hood surface and it can take up varying hood thicknesses.



## An Ooops



Install hood but you'll find hood lip will stop on the Hood Mount screws. Mark location and grind out clearance slots like in photo.



Move the adjustable parts of the Hood Mount Assembly upward and snug them. Reinstall hood and push the hood down to move the Assembly down just under hood. The hood you'll get has a little pocket in which the Dzus rests.

Remove hood and tighten all Assembly screws. Reinstall hood. You should find hood hole lines up with Dzus hole. Install one rubber washer on Dzus post and insert it in hole in position about. Turn  $\frac{1}{4}$  turn to right and the Dzus should

lock with tension. If not you'll have to lower the Assembly until it does or use two rubber washers.



Now all you have to do is install locking washer on Dzus. Pop the hood off to do this. Push the locking washer on with a deep well socket-the split side goes away from the Dzus pin. You should be done.

**Make sure the hood is snug with the nose** or you'll lock yourself into a hood/nose gap which will be most unsightly. Good that's done. Install the rear bungees and its off to the snow for you.

## Unsquare bumpers

Your Indy bumper may not be square on your sled. It may have been deformed by tree contact. Keep this in mind as you fit the hood and make adjustments.

## Fresh air cooling

The RXL hood restricts fresh air intake by design. I've cut out big holes inside the nose. You should do the same in the pan if they are closed. Cooling should be a minor issue with liquid engines. If you

have a 440/500 fan I suggest you pull the right side vent and turn it 180° to drag in more fresh air. If I have to make a bolt-on snorkel which will draw from the side and dump air right on the fan opening I will but let's see if we have a problem first. Monitor you engine temps. I'm running a 500 F/C so I'll likely know before you.

### **Hood/nose gap**

If you just need to move nose back to meet hood you can grind off rough backside of nose where it mounts to the belly pan. This means you'll have to trim back the phony bumper edge on the nose too.

### **Applying tunnel graphics**

1. Rub sticker with a plastic Bondo applicator or other piece of plastic with 1/8" thickness or more and with a rounded edge. You are transferring adhesive bonding between cover sheet and vinyl sticker
2. Trim around live sticker with scissors to make it easier to position it particularly under rear bumper.
3. If you know wet application method-you can tune out now
4. Use blue masking tape to position sticker in place.
5. Peel away about 3" of bottom layer under vinyl on the forward end of graphic. Cut off bottom layer exposing vinyl's adhesive.

Don't allow it to stick. Hold exposed edge away from tunnel with one hand as you rub your finger up and down from cut--out to end in your other hand. What you are doing will prevent bubbles.

6. Now apply the rest of the sticker the same way

7. You will be horrified to see a fair amount of wrinkling around rivet heads.

8. Liberate you wife's hair dry and warm up the wrinkles. This softens the vinyl and makes them disappear. Work the wrinkles lines toward the rivet head. Any remaining bubbles can be lanced with a sharp pin-press the air out of the hole

### **Installing Conrad Von Batavia seat**

I made the wooden base Conrad makes the foam and vinyl. The wood is treated marine vinyl so it will last.

We have installed ¼-20 T-nuts in the seat base over the two rear tunnel holes. If there is a misalignment simply make the tunnel holes larger.

A channel has been cut in the underside for taillight wiring. There is no provision to mount the stock Polaris light with this seat. We suggest you buy an LED taillight from Starting Line



Products. Mount this on your bumper or tunnel. Sneak the wiring through the vinyl at the rear.

### **Warning**

Modifications to Hood Mount Assembly. My showcase sled is a 500 F/C with a 500 L/Q exhaust and don'tcha know I had to change my hood mounts. The pipe needed  $\frac{1}{4}$  more room right where the Assembly was. We solved the problem two ways.



1. We got rid of the 5/8" spacers so the vertical plate could move forward, away from the pipe
2. We cut the corners and the bottom edge off the vertical plate so the plate would sneak ahead even more
- [ ]. We (you) may have to flip the bottom Allen screw around so the pipe doesn't hang up on the nut

### **Installing your own hood/nose graphics**

This bit of instruction assumes you've applied many large area graphics-if not do not try to apply these, they are a bitch. It might be best to work with a local pro. Apply graphics with hood and

nose on sled and adjusted to the closest possible clearance between the two. Make sure your hands and clothes are clean;

- 1) Use the wet method-spray sticky side of sticker and hood/nose with water with a tiny portion of detergent like Ivory
- 2) Start with the bottom white strip on the nose. The nose front edge and raised narrow side strips (which also go up the hood deck sides) are your guides.
- 3) Next apply the red/white panel on the nose. Center it and maintain clearance all the way round
- 4) Now place lay down the 2 inch stripes which go up the side of the hood on raised portion. You'll notice one end of each curves-this matches the curve at the peak where dash starts. These are the only parts which have a right and a left
- 5) Now lay down the center hood stickers and guide them on the center nose graphics so everything lines up
- 6) Finish with the side decals

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