

## **Measuring Procedure for Glass Replacement**

To ensure that you get a correct retro fit glass, great care must be given to follow our instructions below. There are 4 steps that are required by UPD Plastics in this process.

- 1- Cardboard Templates
- 2- Marking your Frame
- 3- Corner Templates
- 4- Measurements

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### **STEP 1 a. Cardboard Templates ( Front Pitch)**

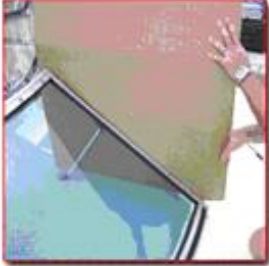


Fig. 1

First, get a stiff piece of regular cardboard that is oversized and place it up against the side of the windshield as shown in Fig.1. If your shield does not have a walk through you will have to make cuts until you can get the right shape. The cardboard must fit snugly under the frame and flat on the deck.



Fig. 2



Fig. 3

When you are complete with the center pitch template it should look something like Fig 3 and 4. The bottom front needs to follow any drop in the deck and meet at the base of the frame as shown in Fig.3. The template should be flush with the back of the frame at the top Fig 4. No overhang! The template should be right under the frame and flat on the deck!



Fig. 4

### **STEP 1 b. Cardboard Templates ( Side Wing)**

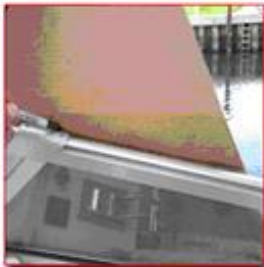


Fig. 5

Now a template has to be made of the side shield. You only need to make it about 24"long. What is important is that you cut it to the exact outside shape of the side wing shield starting where it meets the corner curve frame at the seem as in Fig.6. Make sure the base of the template sits flat on the gunnel.

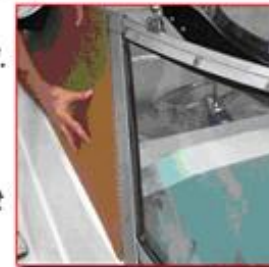


Fig. 6

*\* If we do not receive all of the required information in these instructions we will return your frame! Replacement glass or plastic can not be made without all the markings and templates specifically mentioned in this set of instructions. Please call us if you have any questions!*

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### STEP 3. Cardboard Corner Templates



Fig. 13

Now its time to make the corner templates. These templates should not be any smaller then 8" on each leg. Like the section on Marking the Frame you need to mark each template in the following way:

- Template 1 AA
- Template 2 BB
- Template 3 CC
- Template 4 DD



Fig. 14

**Mandatory!**



Fig. 15

Be extra careful to make sure that your templates sit right on the inside edge of the frame. No Gaps! These templates ensure that the frame does not shift out of the original position. We cannot stress enough how important it is to follow these instructions exactly!



Fig. 16

### STEP 4 Measuring the Frame



Fig. 17

Lastly, you will need to measure the vertical height of the frame. This is very important. It tell us what the pitch of the frame is. Make sure you measure to the bottom corner of the frame. In this case 18 1/4" high.

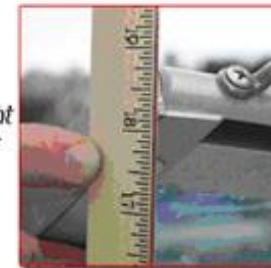


Fig. 18

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### **STEP 1 b continued. Cardboard Templates ( Side Wing )**



Fig. 7

Notice Fig 7. You can see a seem in the metal frame where the wing and curved shield meet. Your template must butt up to this seem from top to bottom!. Notice Fig.8, the template needs to be the same height as the top of the shield! These are critical for determining the side pitch.



Fig. 8

### **STEP 2 Marking the Frame**



Fig. 9

Next, before you remove your frame from the boat for shipment to us you need to continue with step 2, Marking the frame. You need to mark all four corners of the frame as shown in Fig. 9-12. Then you will need to trace a line with a sharpie black pen on the frame on all four corners. This helps us realign the frame before we digitize it. If it is off even slightly the new glass may not fit. Do this carefully!



Fig. 10

**Mandatory!**



Fig. 11

Mark each corner the following way:

- Corner 1 AA
- Corner 2 BB
- Corner 3 CC
- Corner 4 DD

Don't forget to mark your lines on the seems!



Fig. 12

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