



Classic Aero Designs

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10070 REV1

Installation Instructions For:

Sportsman 2 side panels

Applicable Aircraft:

Van's Aircraft RV-7

Van's Aircraft RV-9

Required Tools:

- Philips screw driver
- Small flat tip screw driver
- Unibit (1/8" - 1/2")
- Cordless drill (or similar)
- Pop rivet installation tool
- Sheet metal shears
- Pointed permanent marker (Sharpie)
- 3M Super 77 spray adhesive (or similar product)
- Painters tape

Introduction:

These instructions provide general guidelines for installing the Sportsman 2 side panels in the aircraft listed above. If you need additional clarification please call us at 1-866-219-1087. Your feedback will help us improve these directions and our products.



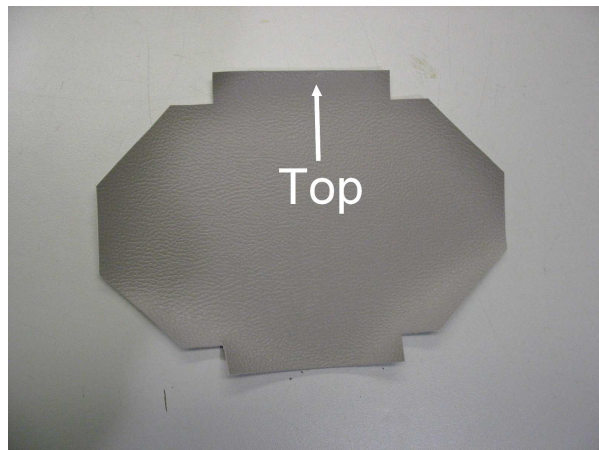
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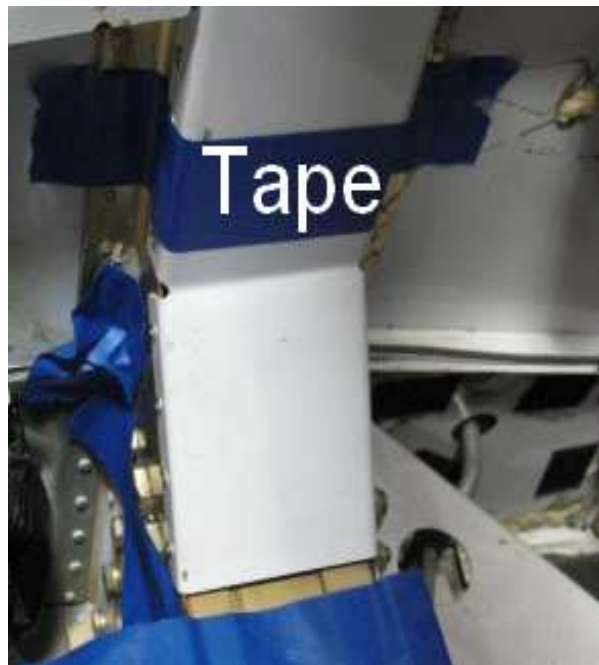
Installation Steps

1 **Diagonal brace cover –**

Remove the floor pans that surround the control sticks. Find the small octagon pieces of material that match your lower side panels. Lay it over the brace to check fit and direction of install.



The part should line up about 1/2" up the vertical surface, shown in the second picture with the blue tape. Mask off the area around the brace. Spray the back of one of these pieces and the brace with 3M adhesive. Let the glue tack up, remove the tape **before** pressing the piece into place.





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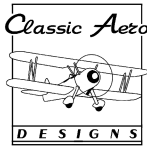
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The last picture shows the part installed. Repeat this for the other side. Re-install floor pans.



- 3 Drill armrest holes** - Find the the drill template. It is a flat plastic piece with a part number on it (10298 for RV-7 or 10167 for RV-9). Place the template on the metal armrest area in the plane. Mark the location of the holes with a sharpie. Remove the template and drill two 3/16" holes at the marked locations.





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- 4 **Upper Insert** – Find the upper insert. It is a pleated panel about 26" x 8". The insert goes above the armrest area against the outside skin of the aircraft. Test fit the insert. The pleats should slope down toward the front of the plane. There should be adhesive backed Velcro attached to the back of the insert panel. Use these pieces to hold the insert in place. Note that the "flap" along the bottom of the insert will lay down flat on the armrest and later be covered by the lower panels and the arm rest pad.
- 5 **Forward insert** – Find the forward insert. It is about 14" x 8" overall, and shaped like an "L". It goes in the area around the fresh air vent. Test fit the insert, and then secure in place with the Velcro that is provided.





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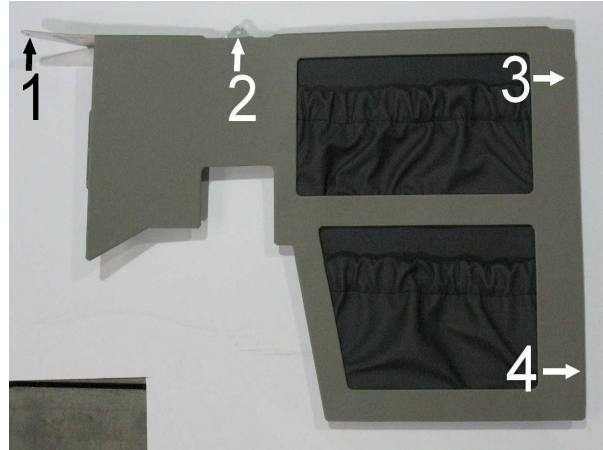
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- 6 Position large pocket** – Find the large pocket assembly. It is an open sided sheet metal enclosure with a gathered pocket attached to one side. The pocket will be permanently attached in a few steps but must be put in place now. Before putting the pocket in place, take note of the location of a small screw hole at the rear of the pocket assembly. A screw will be inserted into this hole later on. Now insert the pocket assembly into the area under the armrest in the airplane. To do this, insert the top of the assembly first. Tip the assembly at an angle with the top toward the armrest. Once the pocket is completely under the armrest, bring it to a vertical position. The holes in the top of the pocket assembly should line up with the holes that were drilled earlier. Slide the pocket back toward the back of the plane slightly for now.

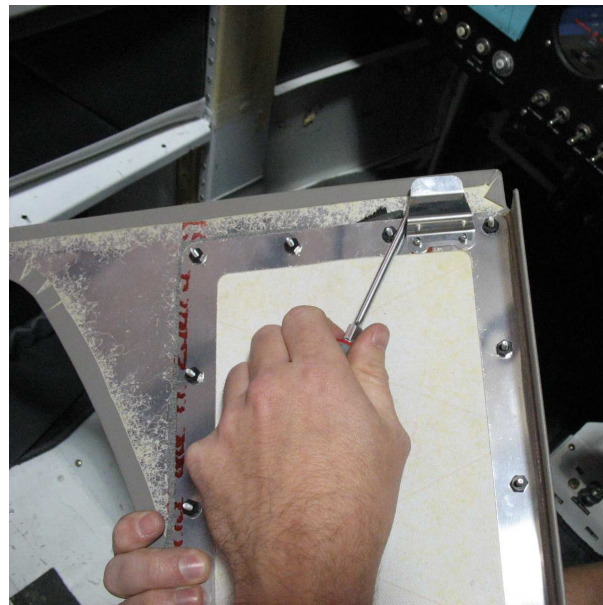


7 Forward panel description –

Find the forward panel. It is the largest piece with 2 built-in pocket. This panel is held in place at 4 points. (1) Toward the rear there is a tab with a hole. The threaded stud from the armrest pad goes through this hole. (2) Near the center of the panel is another tab with a hole. A screw that goes into a rivnut will hold the panel at this point. (3) Near the front of the panel at the top there is an aluminum clip on the back. This attaches the panel to a vertical stiffener in the plane. (4) At the front edge of the panel near the bottom, there is a piece of Velcro to keep the panel against the side of the plane.



- ## 8 Forward panel test fit – (RV-7A/9A panel shown in this step, RV-7/9 installs the same)
- Fitting the forward panel requires spreading the forward panel clip so that it can clip onto the vertical stiffener. It may require some practice at first, but should not be difficult once the technique is understood. Practice spreading the clip before putting the panel in place. To do this, insert a small flat tip screw driver into the open part of the clip from below. Pry gently against the panel to open the clip about 3/8" - 1/2". This is how the clip should look as it is slid onto the vertical stiffener.

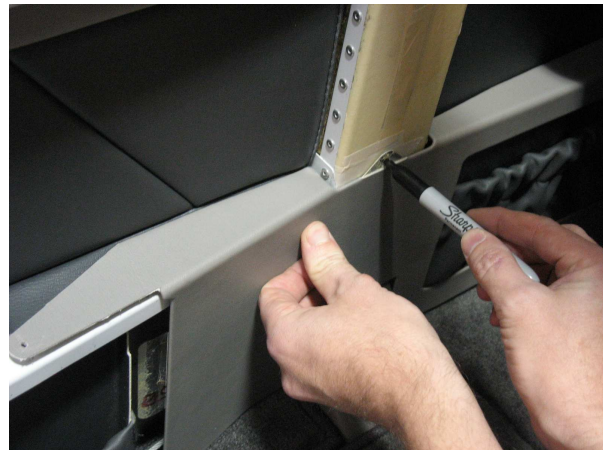


Now fit the panel into the plane. Start with the forward edge of the panel. The panel should be oriented at about 45 degrees to the side of the plane when looking from above. Spread the clip, and slide it on to the vertical stiffener. As the clip slides on, rotate the panel in toward the side of the plane.

Note: There is a small piece of velcro that holds the lower forward edge of the panel against the side of the plane. Take note of it's location when test fitting the panel.



- 9 Mark the screw location –**
Now that the panel is in place, use a sharpie to mark the location of the screw hole near the center of the panel. The screw hole is in a tab that is the highest point on the panel.



- 10 Install rivnut –**
Remove the panel and drill a 3/16" hole at the location that was marked in step 9.

Note: Be careful when drilling this hole. The outer skin of the aircraft is directly behind this area. A Unibit (step drill) is



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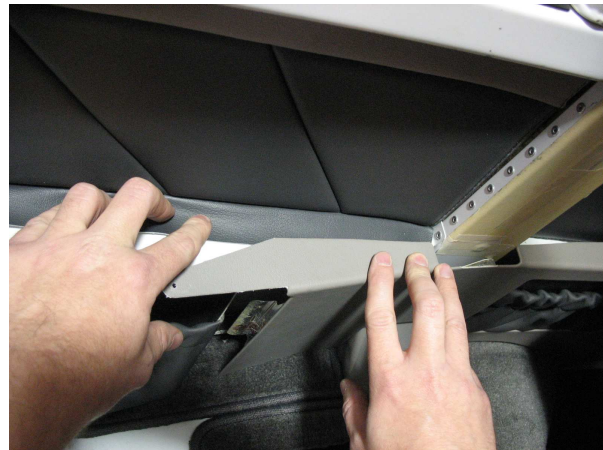
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recommended to allow drilling the hole without “punching through” and damaging the outer skin. If a regular straight bit is used, be sure to use some form of drill stop to avoid this issue.

Install a #6 rivnut in the hole (refer to separate instruction sheet #10070 for rivnut installation).

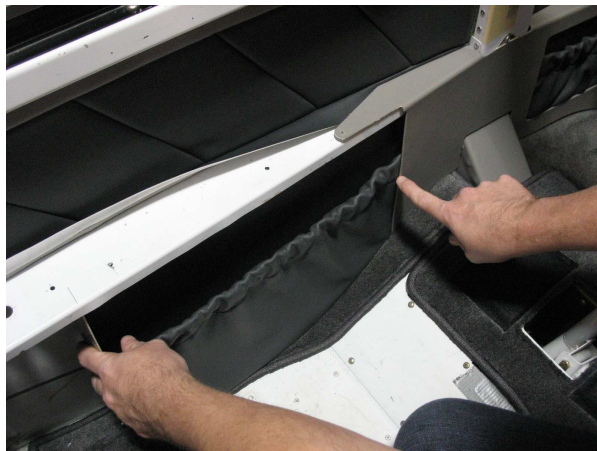


- 11 Install Velcro** – With the forward panel removed, install the small Velcro piece that was mentioned in Step 7. It will be located at the bottom of the vertical stiffener in the plane.
- 12 Re-install the forward panel** – Following the same process that was described in step 7, re-install the forward panel. Make sure that the rear top flange on the panel lays on top of the flap at the bottom of the pleated insert. Once the panel is in place install the #6 machine screw into the rivnut that was installed earlier.

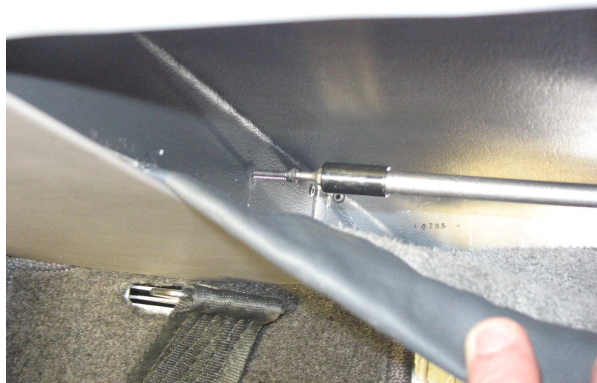
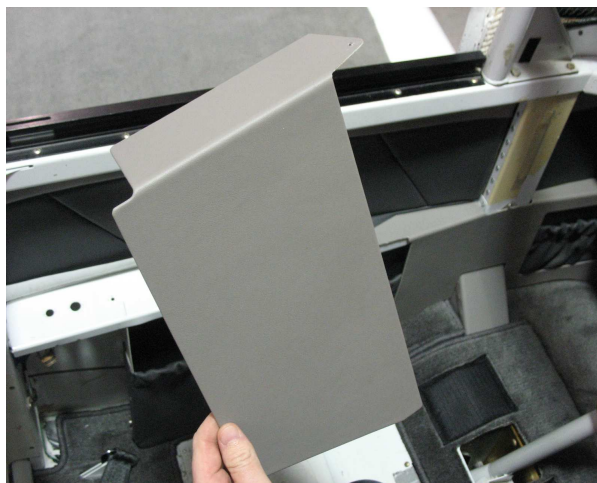


13 Connect pocket assembly –

Now the pocket assembly from step 6 can be connected to the forward panel. Move the pocket assembly forward until it meets the clip on the forward panel. Once they touch, press them firmly together until the pocket assembly seats in the clip. The holes in the pocket assembly and forward panel should line up with the hole in the armrest.



- ## 14 Install rear panel –
- There should be about a panel about 13" x 8" overall. This panel goes behind and below the armrest pad. Before installing the panel take note of the location of the rivnut in the bracket attached to the panel. This rivnut will need to line up with the small hole at the rear of the pocket assembly (mentioned earlier). Now place the panel in position. The hole in the top of the panel should match one of the holes in the armrest area. The panel also lays on top of the flap at the bottom of the pleated insert. Now reach inside the pocket and install a #6 socket cap screw through the hole in the pocket assembly and into the rivnut in the panel bracket.





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- 15 Armrest-** The armrest has 2 studs, each stud goes through 3 pieces of metal. The forward stud goes the forward panel in step 7, the rear stud goes through the rear panel in step 13. Then both studs go in the holes drilled in the armrest in step 3 and the large pocket in step 6. The armrest should lay over the flap of the pleated insert. Now install 2 #6 nylon nuts onto the studs.



- 16 Bulkhead Cap-** The bulkhead cap is about 4"x9" with foam on the inside of each edge. The largest notch should be at the top and forward(except Tip-up pilot side). Press the cap onto the bulkhead.



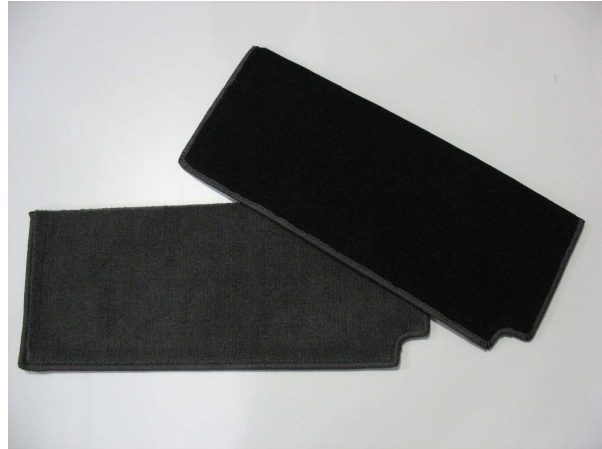
- 17 Other side-** Repeat steps 2 -15 for right side of plane before installing baggage panels.



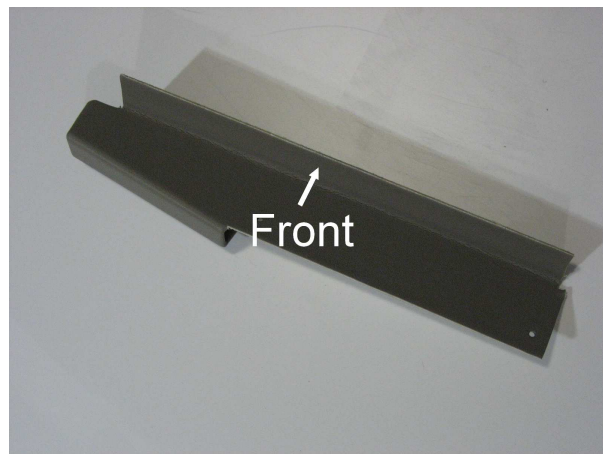
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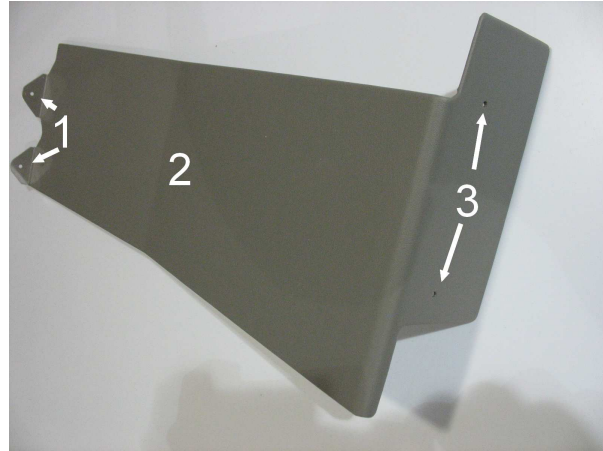
- 18 Baggage side carpet-** Find the 2 rectangular carpet pieces with Velcro backing. If you have a baggage floor carpet install it before these pieces. Check the fit of the pieces the notched corner is the bottom front. Stick the supplied pieces of Velcro to the plane and install the carpet.



- 19 Small Bulkhead cover-** This part with cover the F-274 bulkhead (Vans' Part#). Do not remove the plastic from the double sided tape the location of this part varies and will be installed permanently in a later step. Press the cover onto the bulkhead as shown in the second picture.



- 20 Side baggage panel-** Find the side baggage panels, they are rectangular with a bend at each end. First is an explanation of how the panels attach and then detailed instructions. The panels have 3 attach points. 1) 2 screws from the rear baggage bulkhead will attach. 2) There are 2 alignment pins on the back of the panel, these pins will fit into the small cover in step 18 .3) Screws will go through these holes into rivnuts.



- 21 Side baggage panel fitting-** This step will cover marking the location of the small bulkhead cover from step 18 and the rivnuts from step 19-3.

Remove the 2 screws from the rear baggage bulkhead from step 18-1. Put the screws through the side baggage panel and then put 1 nylon washer on each screw. Slide the panel into place, make sure the alignment pins on the panel go into the small bulkhead cover and tighten the screws into the rear bulkhead.

Hold the front lower edge of the panel tight against the rear panel from step 13 when marking the rivnut holes in step 19-3. There will be a gap between the side baggage panel and the front of the (F-705 Vans' part#) spar bulkhead this will be fixed later. Also Mark the the location of the top of the small bulkhead cover.



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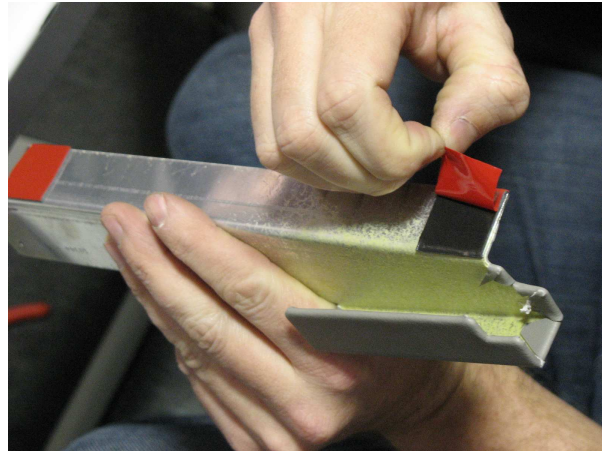
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22 Rivnuts-

Loosen the 2 rear baggage bulkhead screws, remove the side baggage panel and install rivnuts. See rivnut instructions #10070 for this step.

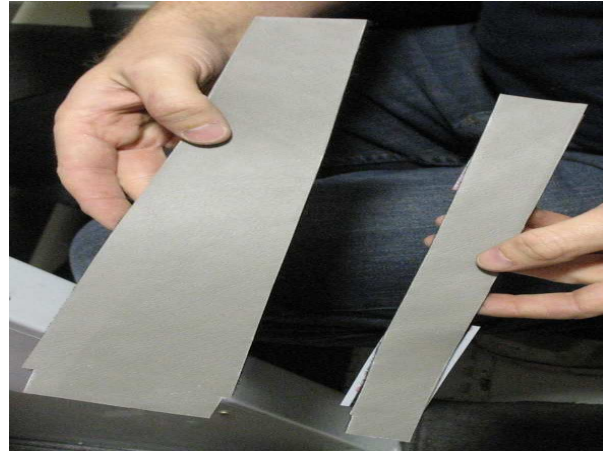
23 Install small bulkhead cover-

Pull off the small bulkhead cover and remove the plastic from the double sided tape. Install the cover using your mark from step 20.

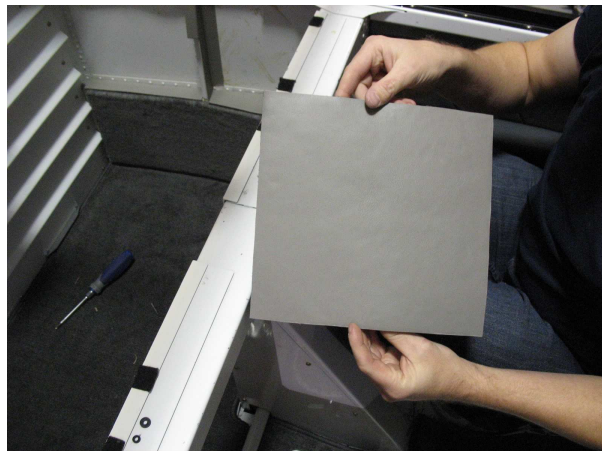


24 Pocket Liners-

Find the 4 pieces per side that match the side baggage panel and have a Velcro backing. The first picture shows the 2 bottom pocket liners. Check fit and then install with Velcro strips on the back of each part.



The second picture shows one of the side pocket liners these go against the skin of the plane and install the same as the bottom liners.



25 Final side baggage panel install-

Take the side baggage panel with the rear baggage bulkhead screws and nylon washers attached and put 2 of the #6 black screws through the front holes (see 18-3) then put 3 of the #6 nylon washers on each screw. The washers are to space the panel away from the rivet heads on the spar bulkhead (Vans' part# F-705) . Now install the side baggage panel make sure the alignment pins go into the small bulkhead cover and tighten the 2 screws



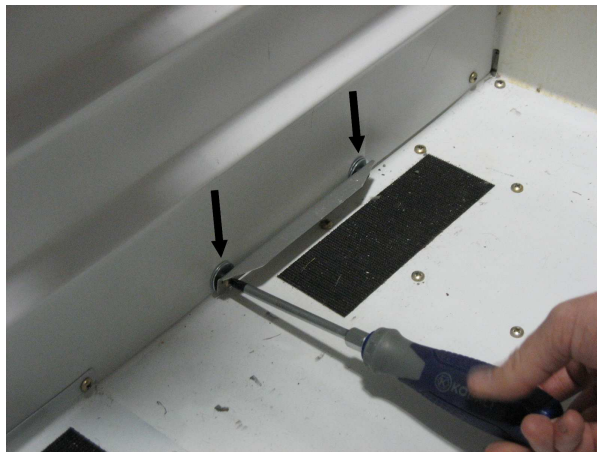
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in the rear baggage bulkhead and the 2 screws into the spar bulkhead.

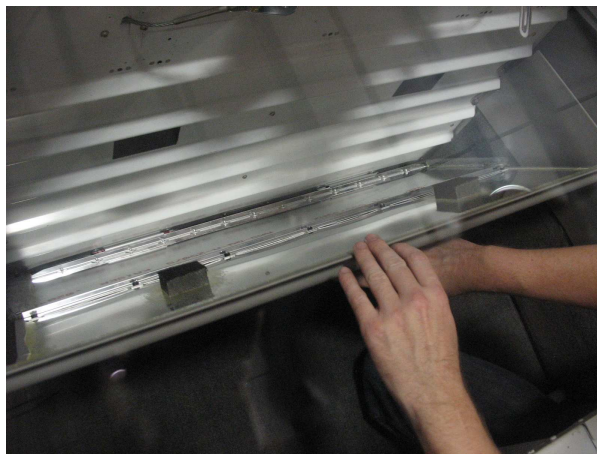
25 Rear baggage panel lower brackets-

Remove the 2 screws shown in the first picture. Find the lower brackets they are about 6" long and put the screws through the brackets and then 2 nylon washer on each screw. Now install the bracket with the bend up like the picture. Now repeat for left side rear lower bracket.



26 Rear baggage panel-

Put the rear baggage panel in place with the tabs on the bottom of the panel into the brackets installed in step 25.





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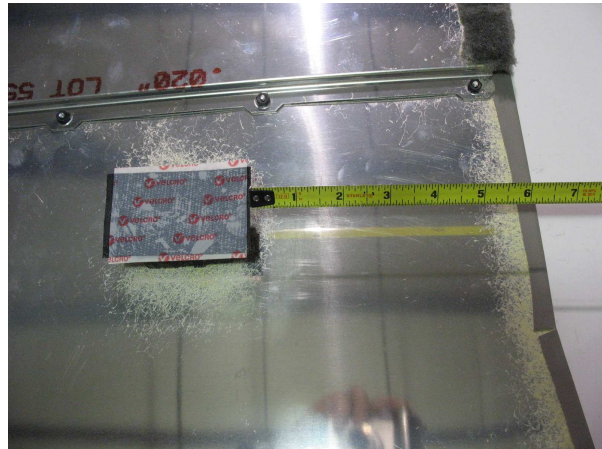
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Mark the 5 holes along the top of the rear baggage panel. Remove the panel and install rivnuts. See rivnut instructions #10070.

Measure the distance from the edge of the panel to the Vecro pad on the back. Place the adhesive Velcro in the same position on the rear baggage bulkhead.



Re-install the rear baggage panel, make sure the tabs at the bottom are in the brackets and the Velcro pads attach. Now install 5 of the black #6 screws into the top of the panel.



- 28 Upper baggage panel-**
Test fit the upper baggage panel. Then place the adhesive Velcro pieces to match up with the panel and install.

