



Classic Aero Designs

403 Aviation Way Albany, OR 97322 • 1-866-219-1087 • Fax 541-926-1373

10122

Installation Instructions For:

Aviator Seats

Applicable Aircraft:

Van's Aircraft RV-6
Van's Aircraft RV-6A
Van's Aircraft RV-7
Van's Aircraft RV-7A
Van's Aircraft RV-9
Van's Aircraft RV-9A

Required Tools:

- Permanent Marker
- Masking tape
- Small Square
- Pliers
- Sheet metal shears
- Electric Drill
- #30 Drill Bit
- Drill Stop
- Hole Deburring Tool
- 8 Cleco Clamps
- 9 1/8" Clecos
- Cleco Pliers
- Hand or Pneumatic Rivet Squeezer with Dies
- 18, AN470AD 4-5 rivets (provided by Classic Aero Designs)
- 2 Hinge Pieces (provided by Classic Aero Designs)

Introduction:

These instructions provide general guidelines for installing the Aviator Seat Package for RV aircraft.

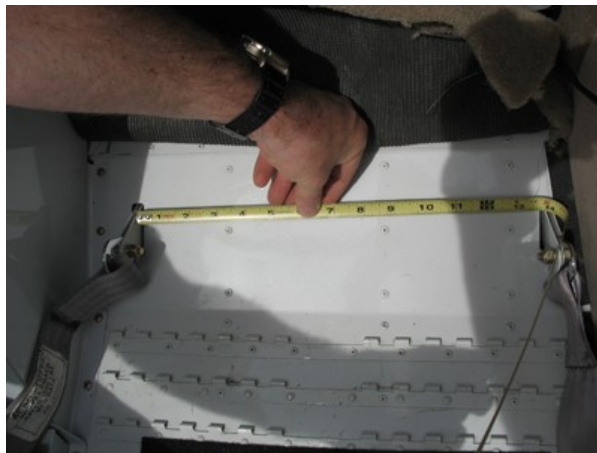


Classic Aero Designs

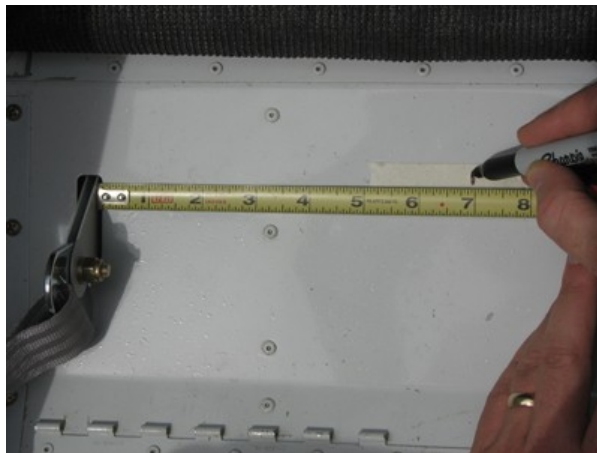
403 Aviation Way Albany, OR 97322 • 1-866-219-1087 • Fax 541-926-1373

Installation Steps

- 1 The first step is to determine where the seat will be centered in the plane. This can vary based on several factors. First measure the distance between the seat belt attachment brackets.



- 2 Divide that value in half to find the center and put masking tape on the cockpit floor where the center would be. Mark the center on the masking tape. Theoretically the center of the seat should be in line with this mark.



- 3 Now place a piece of masking tape near the middle of the rear seat hinge (the hinge closest to the seat belt brackets). Using a square or something similar, transfer the center mark to the tape at the hinge. If you turn the square around toward the control stick, you can double check the center mark against the center of the stick. They should be close.



Classic Aero Designs

403 Aviation Way Albany, OR 97322 • 1-866-219-1087 • Fax 541-926-1373



- 4** Now that you have a center mark established in the airplane, test fit the seat frame. Just set it in place with the bottom flange of the frame resting on the floor just behind the rear seat hinge. Line up the center rivet hole with your center mark on the masking tape.

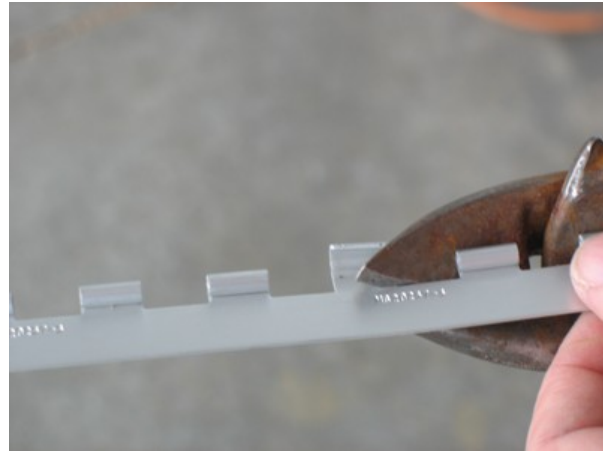
Ensure that the seat back does not interfere with any other objects in the cockpit. If you are installing side panels, put them in before completing this step. If the backrest does not fit, adjust it's position until it does, and make a new center mark.

- 5** Now, remove the center hinge eye in the hinge provided. First straighten the hinge eye with a pair of pliers, and then clip it off with snips (this may already be done for you).



Classic Aero Designs

403 Aviation Way Albany, OR 97322 • 1-866-219-1087 • Fax 541-926-1373



- 6 Using the standard hinge pins, attach the provided hinge piece to the rear seat hinge. The hinge should be attached so that when it lies down against the floor it looks like a mirror image of the floor hinge.

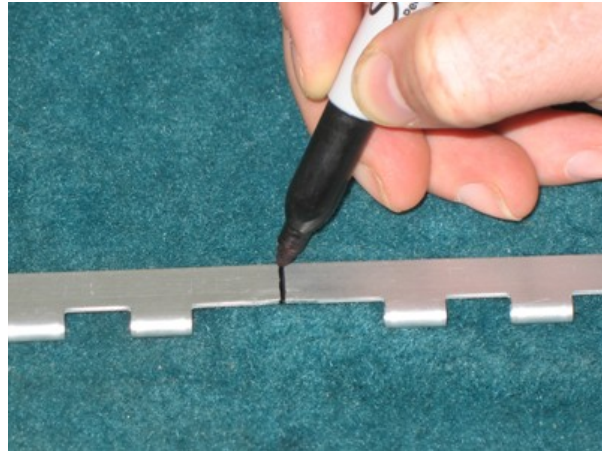


- 7 Using the center mark that you determined was the best fit for the seatback, mark the center of the seat hinge. Also, mark the side facing up as the "front".

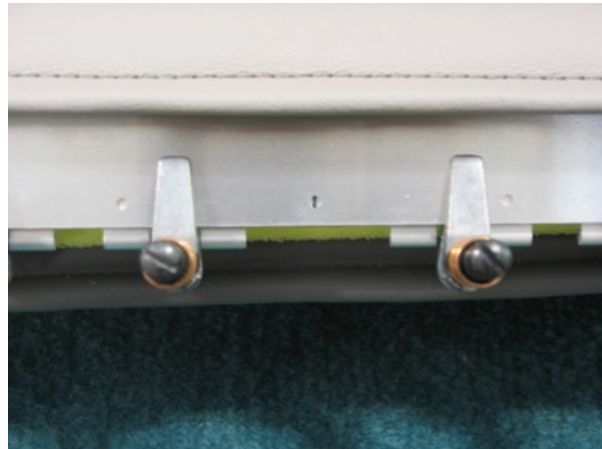


- 8 Remove the hinge from the airplane, and move to a flat work space. A carpeted or

padded surface is best to avoid damaging the seat. With a permanent marker, transfer the center mark on the hinge to the back side.



- 9** With the backrest facing down, clamp the hinge to the bottom flange as shown in the picture. You should see the center mark centered in the center rivet hole. Note that the side marked “front” is facing down toward the work surface. Use cleco clamps along the length of the hinge to hold it in place. The edge of the hinge should be aligned with the edge of the frame flange.



- 10**
- 11** To allow the hinge to fit inside the seat cover, rough trim the hinge to length on each end as shown. You can now mark the precise length and trim it to final size after drilling.





Classic Aero Designs

403 Aviation Way Albany, OR 97322 • 1-866-219-1087 • Fax 541-926-1373

- 12** Insert a #30 drill bit into the drill with a drill stop. Use the frame as a guide to drill holes in the hinge. Tuck a piece of stiff paper or cardboard under the hinge to catch the aluminum chips.



- 13** Install 1/8" clecos into the holes as they are drilled to ensure that the hinge does not move during drilling.



- 14** Once all of the holes are drilled, remove the clecos and clamps. Deburr all of the holes. Trim hinge to final length on each end.



Classic Aero Designs

403 Aviation Way Albany, OR 97322 • 1-866-219-1087 • Fax 541-926-1373

- 15** Re-attach the hinge with clecos as shown in the picture. Note that the hinge is now on the back side of the frame, but is still facing the same direction as before. Remove clecos one by one, and install rivets in their place.



- 16** The backrest is now ready to install. To ensure that it is always installed on the correct side of the aircraft, write on the lower part of the frame which side of the aircraft this seat goes on.

Now just repeat these steps on the second seat.

