



Photo #29

When the seat is in position, drill a 1/8" hole through the bottom of the seat and the curved frame tube on each side and install two cleco. When drilling, try to center the hole on the airframe tube. Remember, these holes are only an approximation and may move slightly upon final assembly.



Photo #30

Install the floor pan and attach it to the tub with cleco in the master holes.

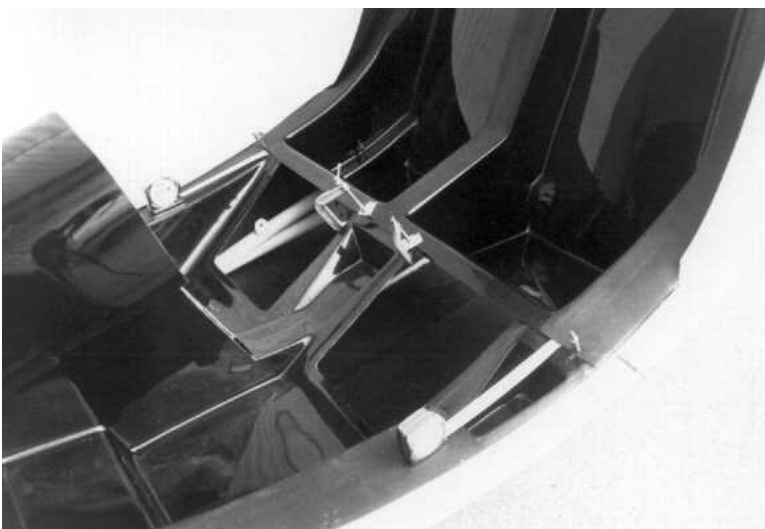


Photo #31

Pull the floor pan forward as far as possible. Measure the overlap of the floor pan and the front of the seat, using a tape measure on each side. The distances should be equal along the entire width of the ship. Clamp and cleco together.



Photo #32

Install the top front body panels on both sides with cleco in the master holes.



Photo #33

Install the top rear body panels on both sides with cleco. Align the offsets and drill 1/8" holes for the cleco. Use only as many as necessary to hold the panels in place (one at each corner where the panels connect).

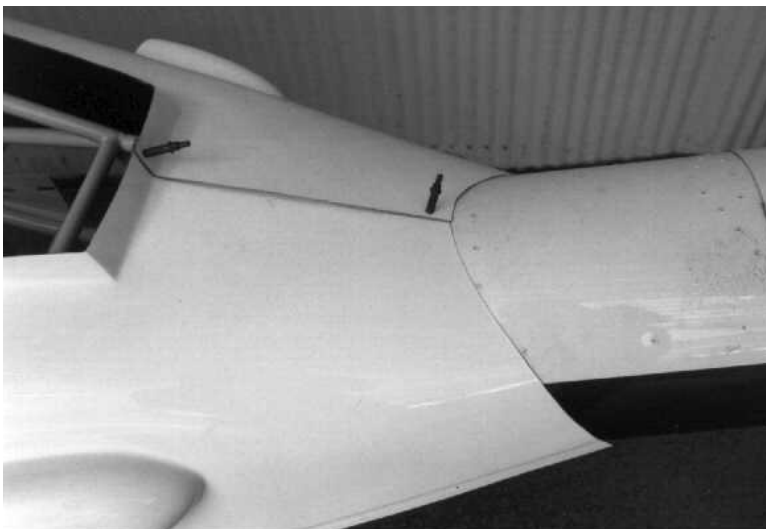


Photo #34

Check the fit of the top rear panels to the tail boom. They should fit evenly around the boom.



Photo #35

Install the lower rear body panels on both sides with cleco. Align the offsets and drill 1/8" holes for cleco. Do not fasten the bottom overlap together on the lower panels yet. Final overlap requires clearance between the panels and radiators.



Photo #36

The body panels should fit evenly all the way around the tail boom. The panels may be overlapped to reduce the diameter of the opening around the tail boom, and shims may be added under the seat to achieve a better fit. When all panels have been final fitted, there must be enough clearance around the tail boom for the weather stripping which will be glued in place. This must not fit excessively tight. Perform final fit after radiators and drive train have been installed.

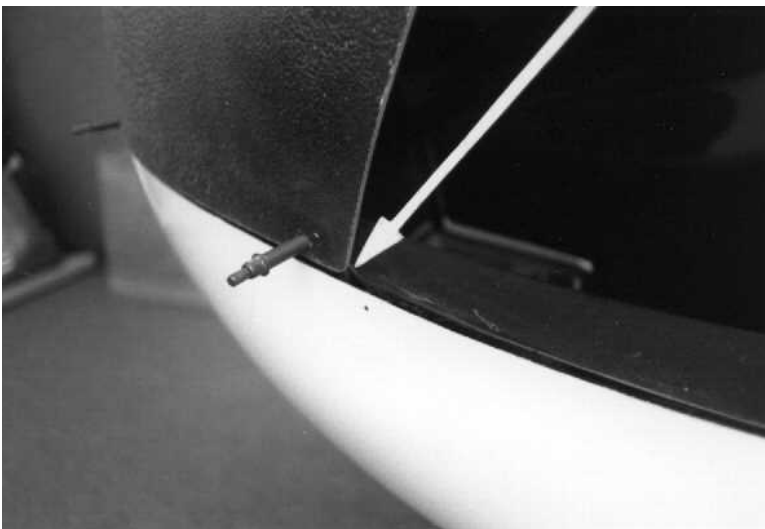


Photo #37

Align the edge of the windscreen with the raised part of the floor pan on each side.

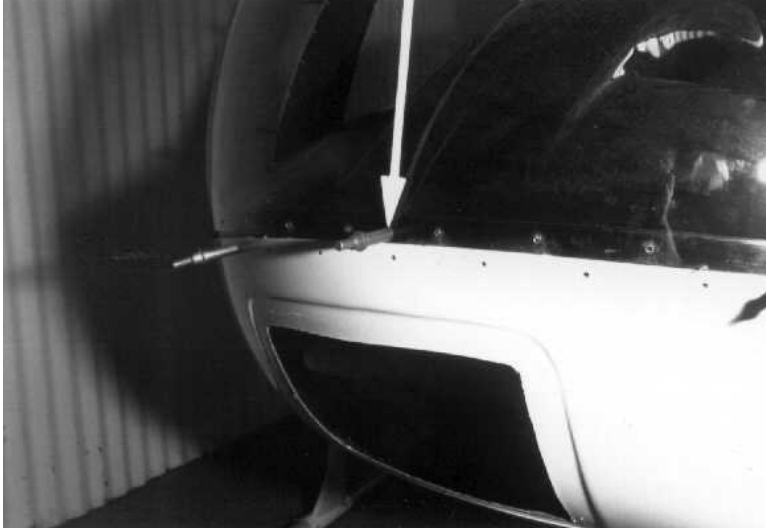


Photo #38

Find the center of the bottom of the windscreen. Drill a 1/8" hole in the windscreen and the floor pan for the cleco. The windscreen should sit on the tub. Use extra care when drilling the windscreen; it could crack if not drilled correctly.



Photo #39

Check the alignment of the top of the windscreen with the body. The top edge of the seat back should align with the top of the windscreen. The top of the windscreen should be allowed to fit naturally; this may require several adjustments to the body panels that have already been installed.

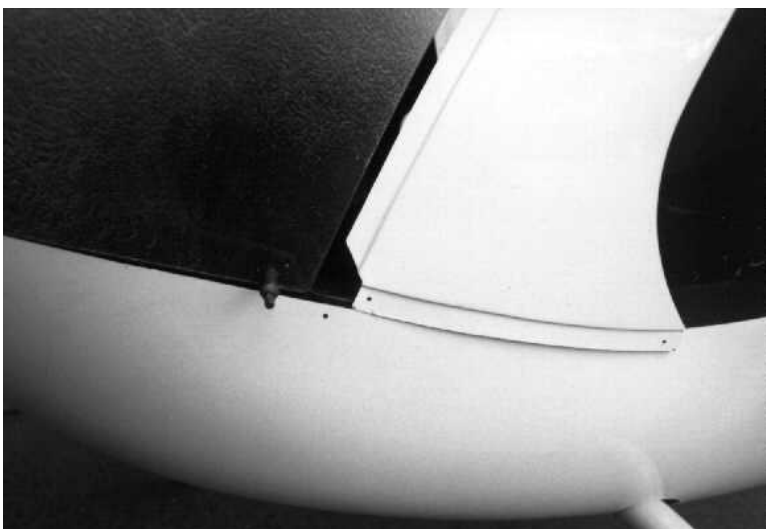


Photo #40

Locate and drill a 1/8" hole at each end of the bottom of the windscreen and cleco it to the floor pan.

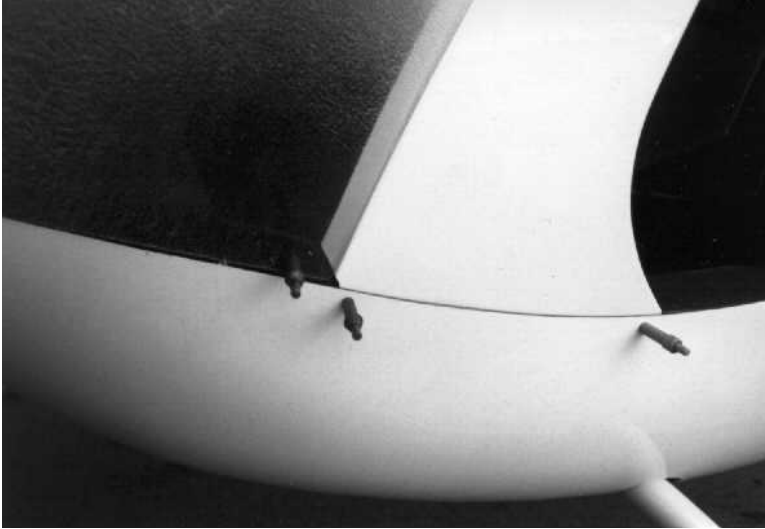


Photo #41

Fit the door post to the windscreen and the tub.



Photo #42

Another view after door post is fitted to windscreen.

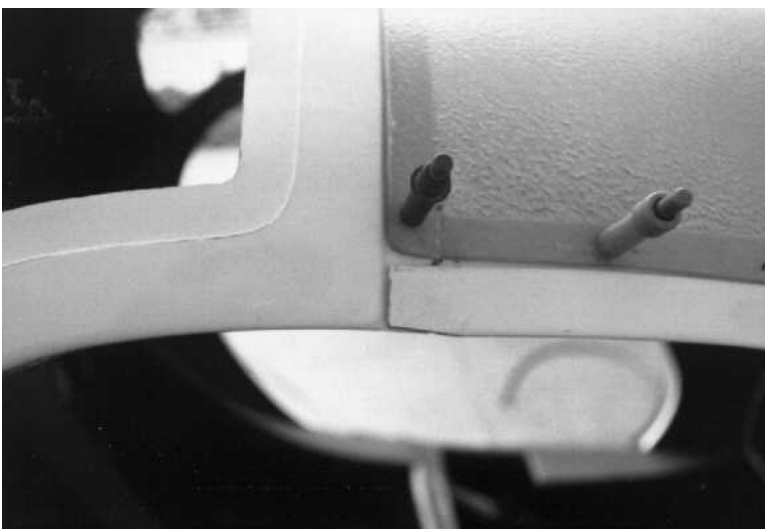


Photo #43

Top of the door post, top front panel and windscreen joint after fitting.



Photo #44

The top of the windscreen is the same contour as the top of the seat back.



Photo #45

Fit the roof panel between the two top front panels and the windscreen.

Note: It may be necessary to trim the fiberglass or the windscreen to achieve the desired fit. There should be a gap between the sides of the roof panel and the top front panels when the windscreen is correctly fitted.

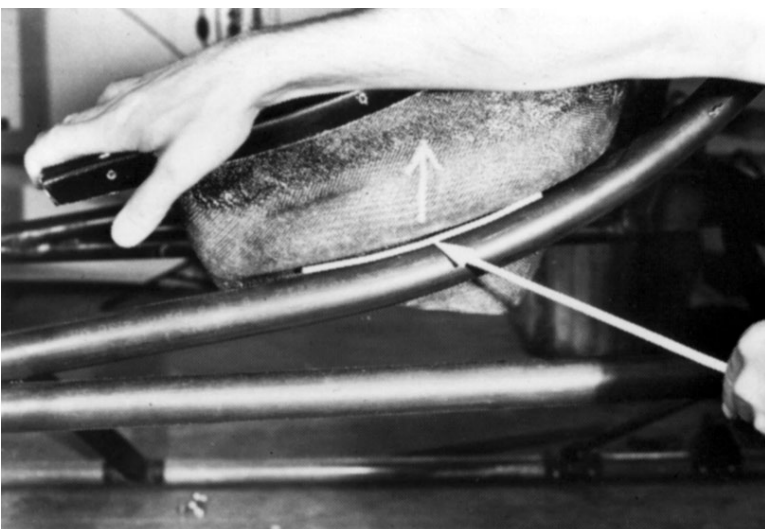


Photo #46

Check the levelness of the body. Shims can be added between the seat and the frame tube as shown to achieve the correct height. Make sure the bolts holding the seat to the frame extend through the shims.



Photo #47

Check the levelness of the body laterally for correct positioning of the pedals and also around the intersection of the tail boom. It may be necessary to shim the seat forward on either side as shown by the arrows. (Use fender washers for shimming.)

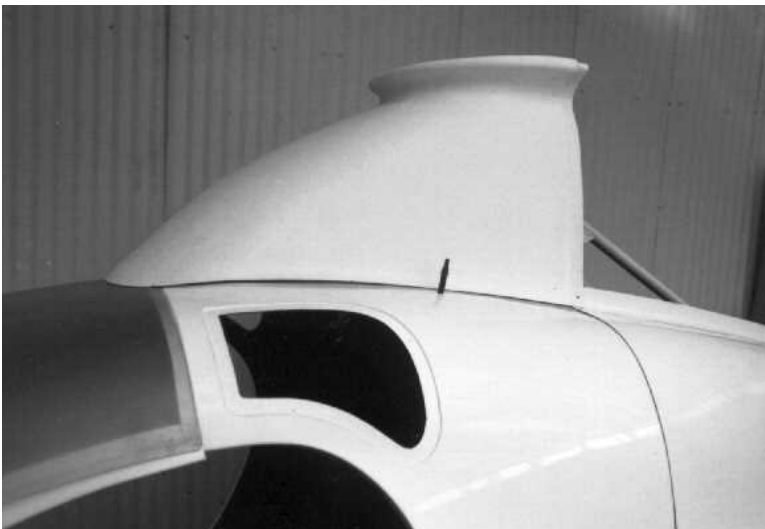


Photo #48

Install the front doghouse cover. Drill a 1/8" hole to allow the cleco to hold the doghouse, top front and top rear panels together.



Photo #49

Install the rear doghouse. Drill a 1/8" hole to allow the cleco to hold the front and rear panels and doghouse together. The lower edges of the doghouse may have to be trimmed for a good fit and to level the doghouse to the other body panels.



Photo #50

Overall view of the body on the airframe.

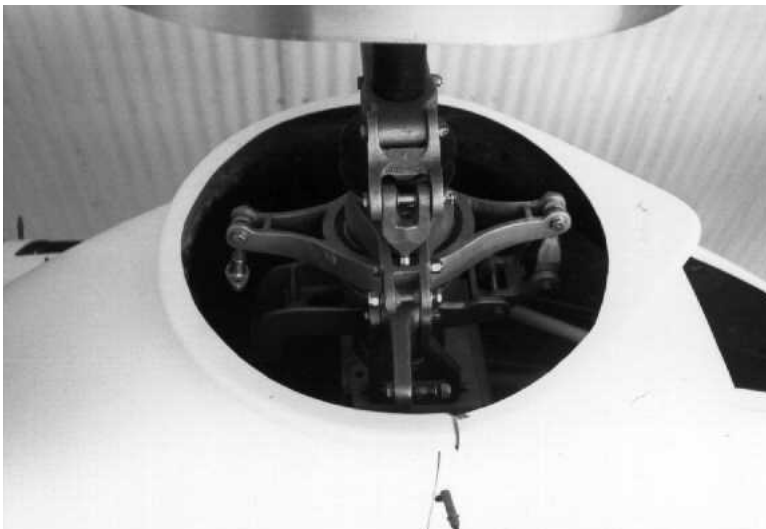


Photo #51

View of the swash plate in the opening of the doghouse.

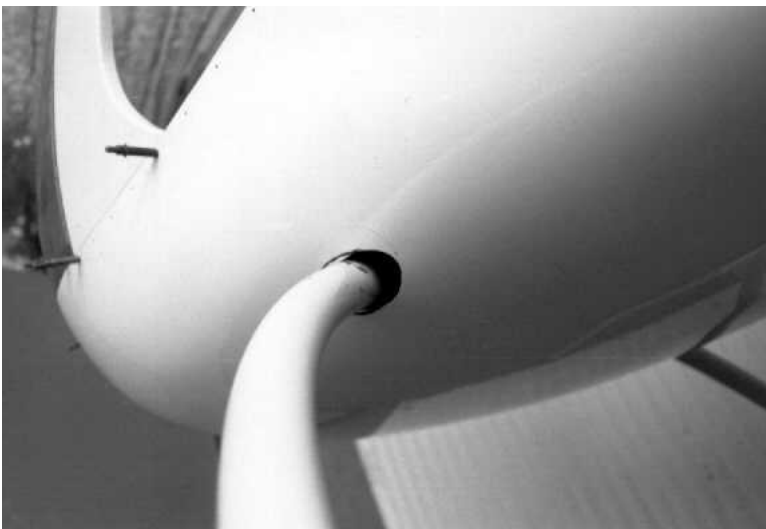


Photo #52

View of clearance around the landing gear.

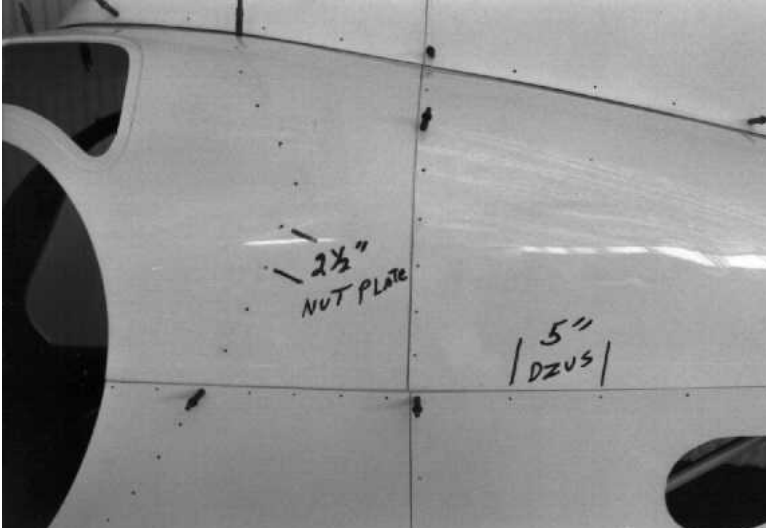


Photo #53

Space the nut plate screws 2-1/2" apart and the Dzus buttons 5" apart.

Note: The main structure is fastened together with nut plates and screws. Panels used for inspection access use Dzus buttons to fasten. Nut plate screws and Dzus buttons should be centered over the lap joint inner lip.



Photo #54

When the body is completely fitted and ready to be fastened to the airframe, open the 1/8" cleco holes to 3/16" and install the bolts.



Photo #55

Drill a 3/16" hole in the rear of the seat and through the 1" cross tube of the airframe, approximately 2" from each side.



Photo #56

Opening cut in the back of the seat for inspection panels.

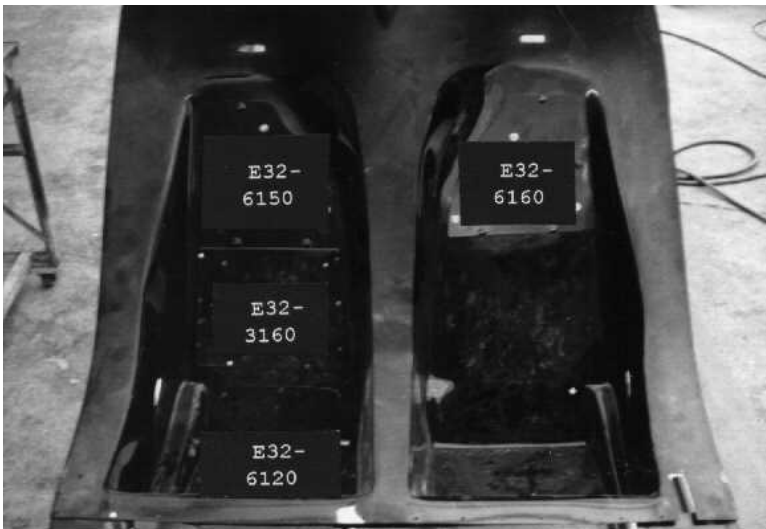


Photo #57

Inspection panels installed on seat back.

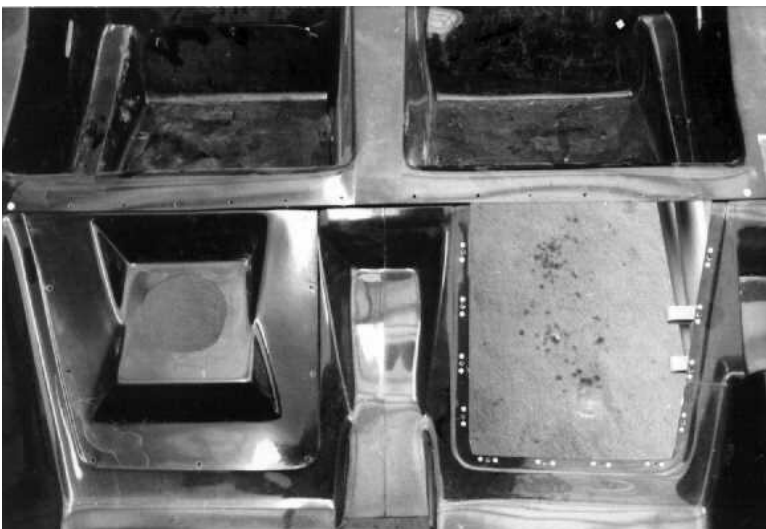


Photo #58

Fit cyclic inspection panels to the floor pan.



Photo #59

Using template E32-1, cut out the aluminum heel plates and install them in the floor pan using 8 pop rivets each. These are wear plates and also provide smooth surfaces for your heels to slide on during directional control movements.



Photo #60

Sand and polish the seam on the top of the instrument pod.

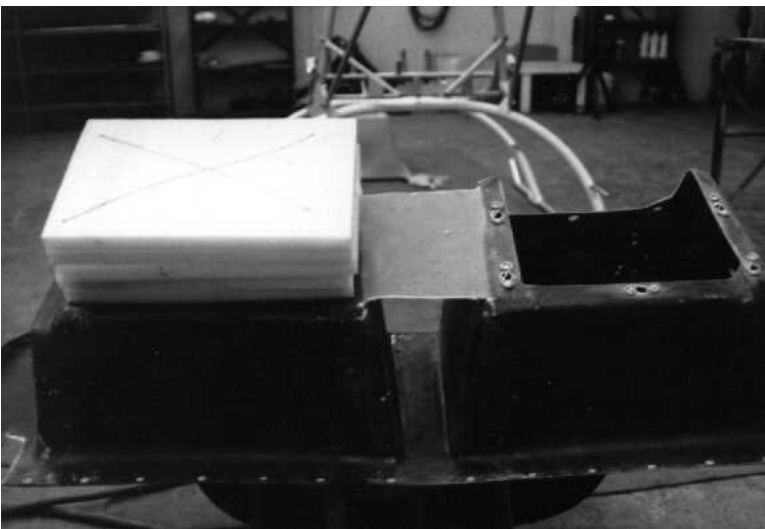


Photo #61

Cut five of the pieces of foam in half. Wire 5 pieces under the pilot seat and 5 pieces under the battery inspection panel on the passenger seat. Use safety wire in a cross pattern. This precaution will provide a good deal of cushioning in the event of a hard landing.



Photo #62

Foam wired to bottom of battery inspection panel.



Photo #63

In addition 5 pieces of foam, approximately the same size will fit in the bottom of each seat.

OVERHEAD SWITCH PANEL

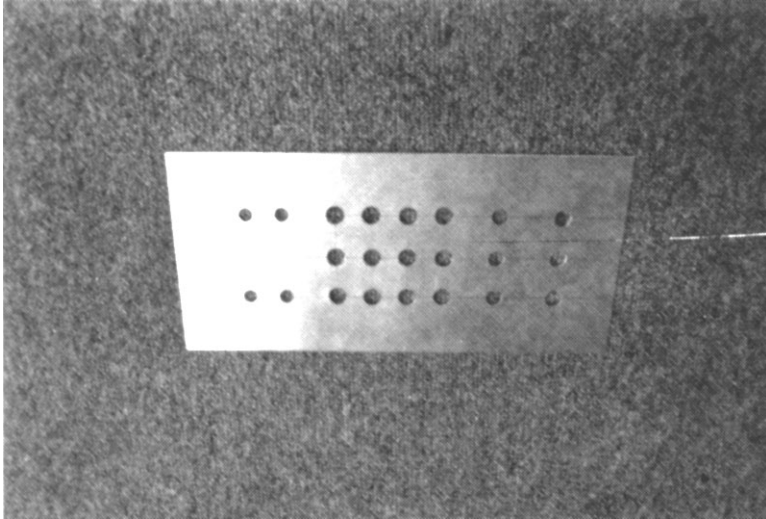


Photo #64

Using template E32-2, drill the holes in the overhead switch panel.

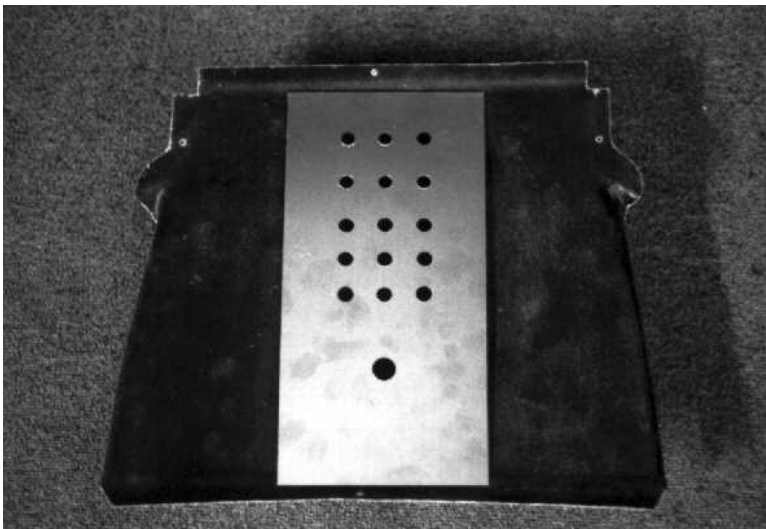


Photo #65

Locate the switch panel on the roof panel and drill the holes for the mounting screws.
Note: If you have purchased the headliner, use it to help position the overhead switch panel.

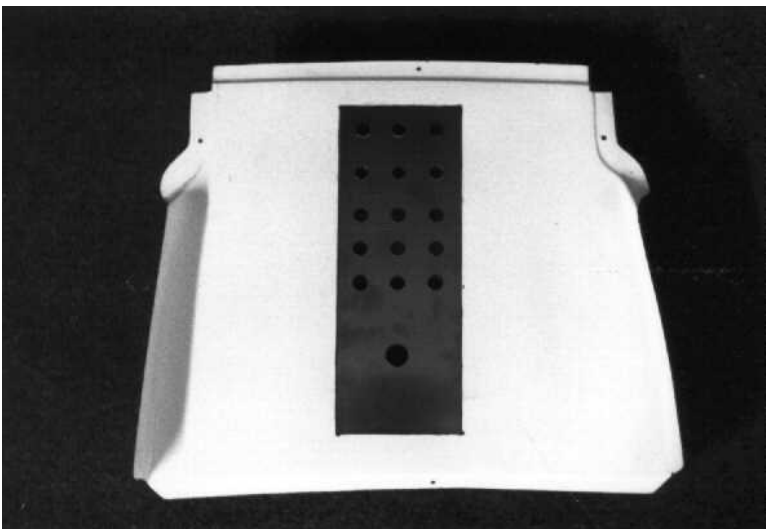


Photo #66

Cut the opening in the fiberglass roof panel.

WINDSCREEN

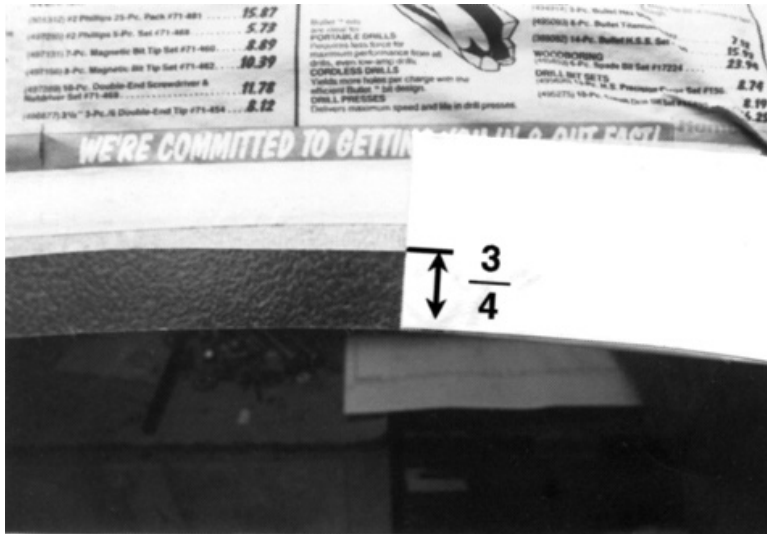


Photo #67

After the windscreen has been completely fitted, remove it from the ship and mask off 3/4 inch from the outside of the windscreen all the way around. Note: Remove the protective coating before sanding.



Photo #68

Sand the area with 220 grit sandpaper so the resin will stick to the plexiglass.

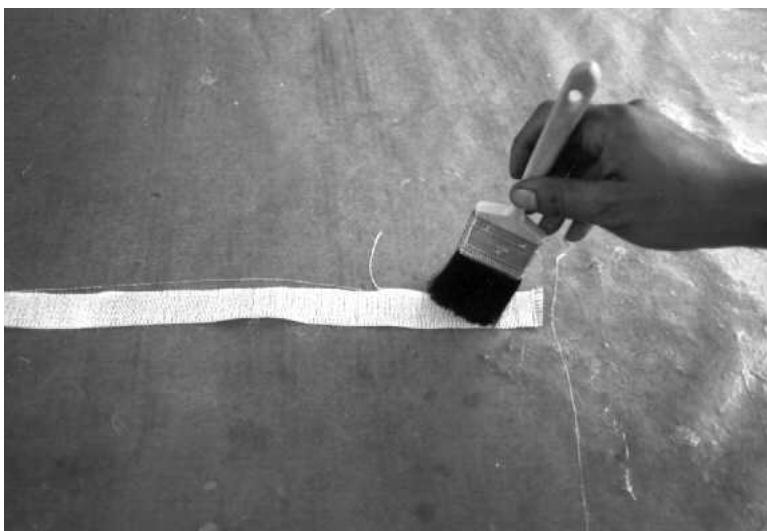


Photo #69

Place the strip of fiberglass cloth on a clean surface and saturate it with resin.



Photo #70

Apply a coat of resin to the sanded edges of the windscreen.



Photo #71

Place the fiberglass cloth around the edges of the windscreen, allowing the edge to overhang. When the resin hardens, trim off the overhang with a razor knife.