

Service Bulletin 156 – Mandatory

Subject: Resin Coating of Glasair III Wing Fuel Bays


Applicability: Kits 3390 and 3391 only, mandatory

Discussion: Glasair Aviation has recently implemented a new manufacturing process, which utilizes a different application and mixture of resin in the fabrication of Glasair composite wing panels that results in a stronger and lighter weight structure. The resin supplier has informed us that the new process has a lower corrosion resistance (as it relates to continued immersion in fuel products) than our previous process. Therefore, we have decided to add a post-production step of coating the wing **skin** surfaces, which will be continually exposed to fuel with a generous resin coat.

Required Action: All of the **skin** surfaces within the wing's fuel bay must be treated with 3 coats of 470-300 fire retardant resin to ensure proper fuel corrosion protection properties. Note: the surfaces of the ribs and spars within the fuel bay and the wing tip extensions need not be coated as these are manufactured with a different process/resin mixture.

The following steps will ensure compliance with this service bulletin:

1. If standard wing kit: Inside the fuel bay areas forward and aft of the main wing spar, sand all exposed wing skin surfaces with minimum 80 grit sand paper per the preparation sanding techniques described in your Manual. **Be careful not to sand through any layers of glass.**
2. If Pre-Built (or Jump-Start) wing kit: Inside the fuel bay areas forward of the main wing spar, sand all exposed wing skin surfaces with minimum 80 grit sand paper per the preparation sanding techniques described in your Manual. Sand the skin surfaces right up to any Q-cell fillets common to the front spar and ribs. **Be careful not to sand through any layers of fiberglass.** Note: the ribs and wing spar need not be sanded and painted with resin. Also, the fuel bay areas aft of the wing spar need not be sanded/painted with resin as this area was treated with resin coating at the factory.


	Model: Glasair	Document: Service Bulletin 156	Revision: -	Date: 2/2/05	Page: 1 of 1
---	-------------------	-----------------------------------	----------------	-----------------	-----------------

3. Following sanding, completely vacuum or blow off all the dust and debris from the surfaces, then wipe the sanded surfaces with an acetone rag or cloth.
4. Cut the supplied peel ply to overlap the sanded areas by a minimum of 1". Remove the peel ply and keep organized and ready to apply to the resin coated surfaces.
5. Catalyze the supplied resin at a minimum 2% by weight.
6. Coat all previously sanded surfaces with a liberal amount of resin. Apply the peel ply and allow resin to cure until dry to the touch. (This will take approximately two hours depending on temperature and humidity.)
7. **Remove all peel ply** and sand any sharp edges with 80 grit paper. Clean the surface again as described above but do not saturate the surface with acetone.
8. Brush another liberal coat of resin over the complete surface. When this coat becomes tacky, apply the third and final coat of resin over the surface.
9. Perform a final cleanup by sanding any rough edges.

Materials required for the above process:

- (2) Peel ply, 23' x 20" (rolled)
- (1) Peel ply, 54" x 60" (rolled)
- (1) 470-300 resin, gallon
- (1) 2" brush
- (4) 80-grit sand paper
- (1) Catalyst, 4 oz.

Note: You will not need the entire gallon of resin to perform the above process.

	Model: Glasair	Document: Service Bulletin 156	Revision: -	Date: 2/2/05	Page: 2 of 2
---	-------------------	-----------------------------------	----------------	-----------------	-----------------