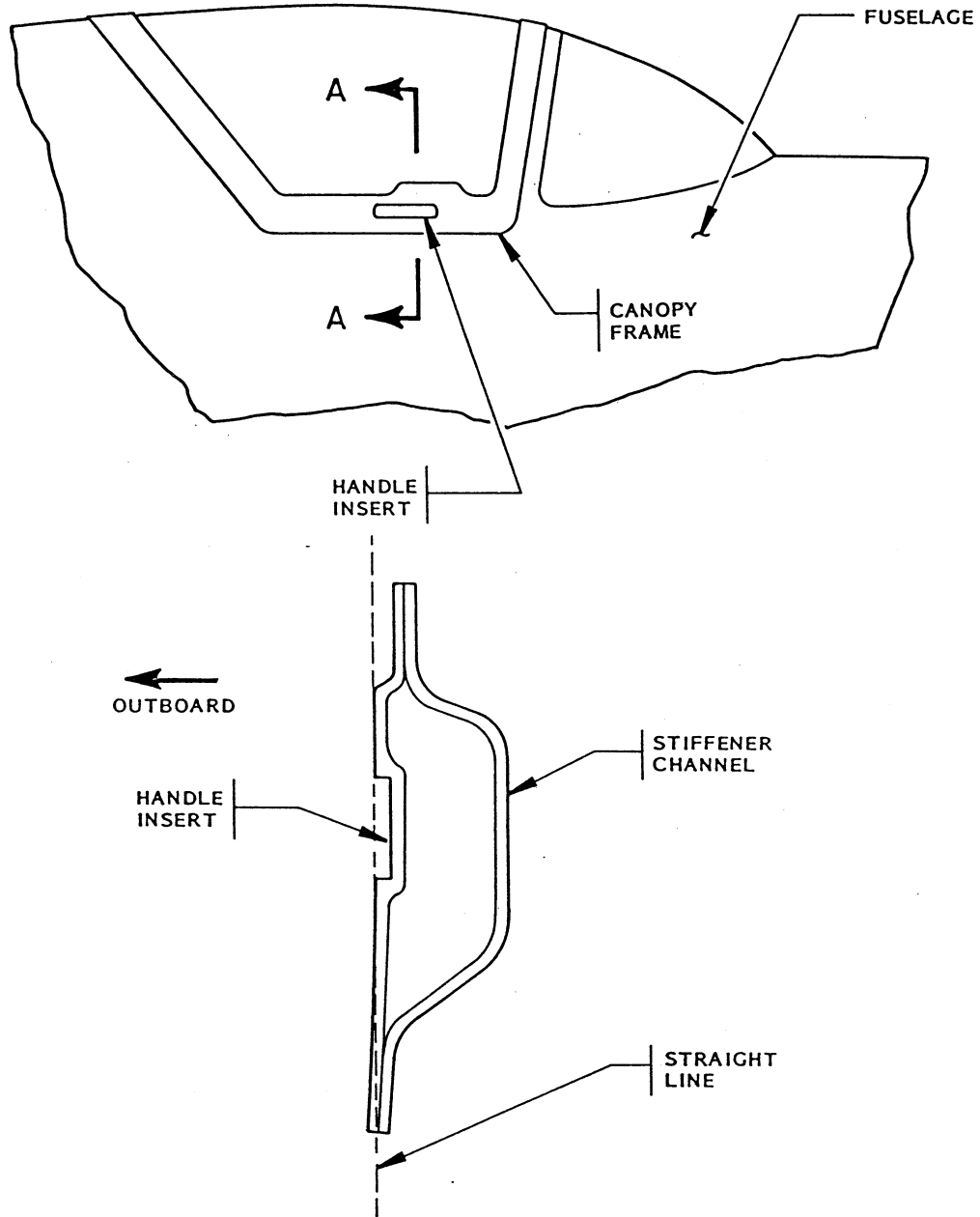


SERVICE BULLETIN 48

SUBJECT: CANOPY FRAME MODIFICATION

APPLICATION: Glasair II kits, serial numbers 1001 thru 1053  
Glasair III kits, serial numbers 3001 thru 3055

DESCRIPTION:



VIEW A-A

FIGURE (1)

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It has come to our attention that the outside surfaces of some of the early gull wing canopy frames are slightly concave in the area of the handle insert, as shown in FIGURE (1). The surface concavity can be detected by placing a straight edge vertically across the canopy's outside surface in the handle insert area, as shown.

If the area of the handle insert is concave, the lower edge of the canopy frame will protrude slightly when the canopy is closed and will not match the fuselage contour. If the builder is dissatisfied with the canopy frame's fit with the lower fuselage, he can modify the outside surface of the lower canopy frame, as described in the following procedures. This modification should be accomplished prior to the canopy latch installation.

SOLUTION:

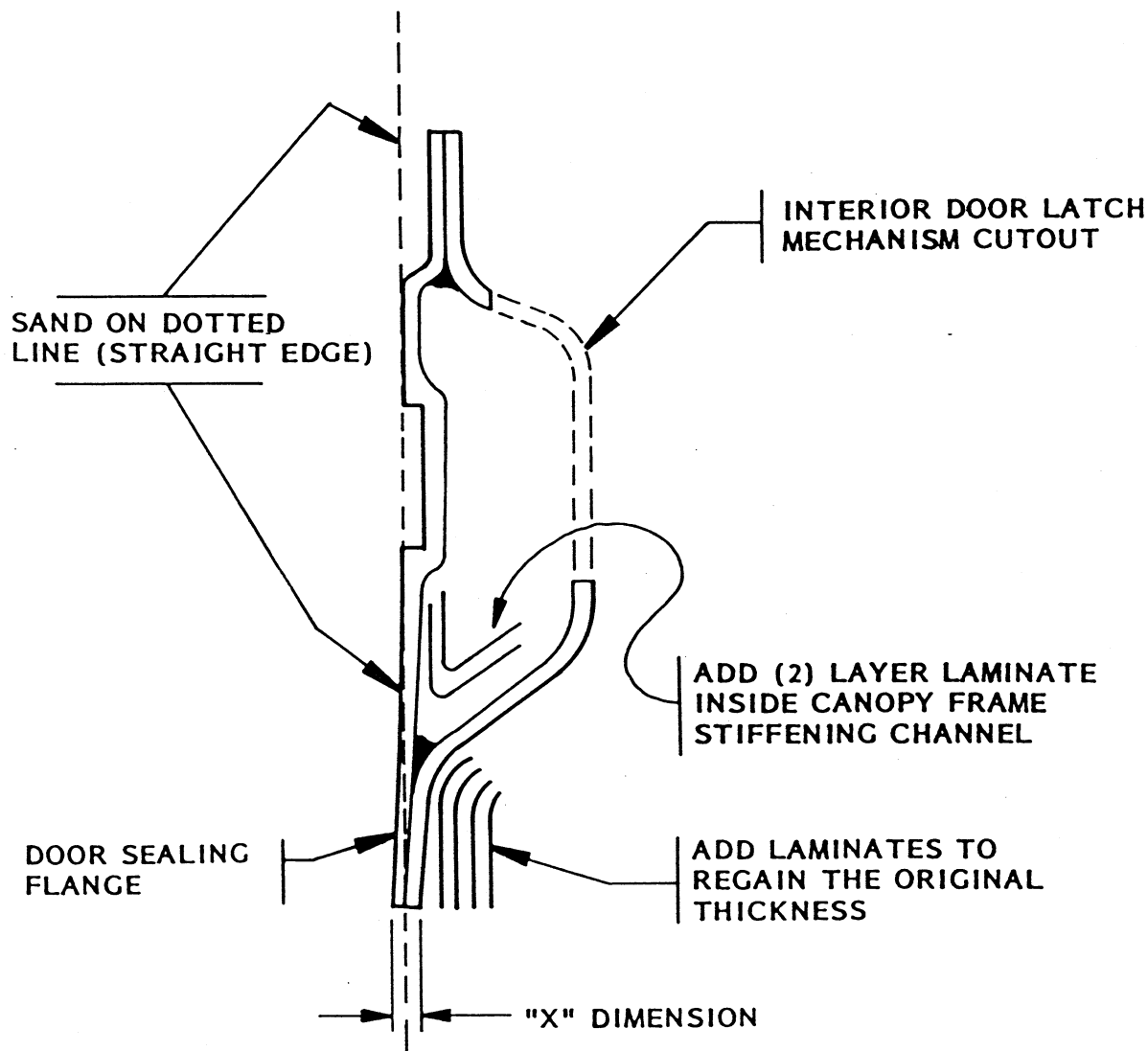


FIGURE (2)

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To correct the contour mismatch of the canopy frame with the outside of the fuselage, the canopy frame's outside surface will be sanded at its lower edge. Additional laminates must be applied inside the canopy frame stiffening channel and on the inside surface of the canopy frame's sealing flange, as shown in FIGURE (2), to maintain the original thickness of the canopy frame laminates.

To gain access to the inside of the stiffening channel, follow the procedures below:

1. Install the canopy hinges using the Instruction Manual procedures.
2. Cut the interior door latch mechanism opening in the canopy frame, using the dimensions provided in the Instruction Manuals.
3. The (2) layer bidirectional cloth laminates for the inside of the canopy frame stiffening channel must be applied prior to recontouring the outside surface. Cut (2) pieces of bidirectional cloth 1" wide and slightly longer than the affected area for each side. Cut the cloth pieces on the 45° bias. Apply the (2) layer laminate inside the canopy frame stiffening channel, as shown in FIGURE (2). Divide the width of the laminate strips equally between the inside of the canopy frame and the inside of the stiffening channel, as shown.

NOTE: Pre-saturating the laminates will facilitate their application inside the stiffening channel.

4. Measure the thickness of the canopy frame sealing flange, as indicated by the dimension "X" in FIGURE (2). (After the outside surface of the canopy frame has been sanded to the correct contour, additional laminates will be applied to the inside surface of the canopy sealing flange to restore the flange to its original "X" thickness.)
5. Sand the outside lower portion of the canopy frame until its lower edge matches the contour of the fuselage.

  
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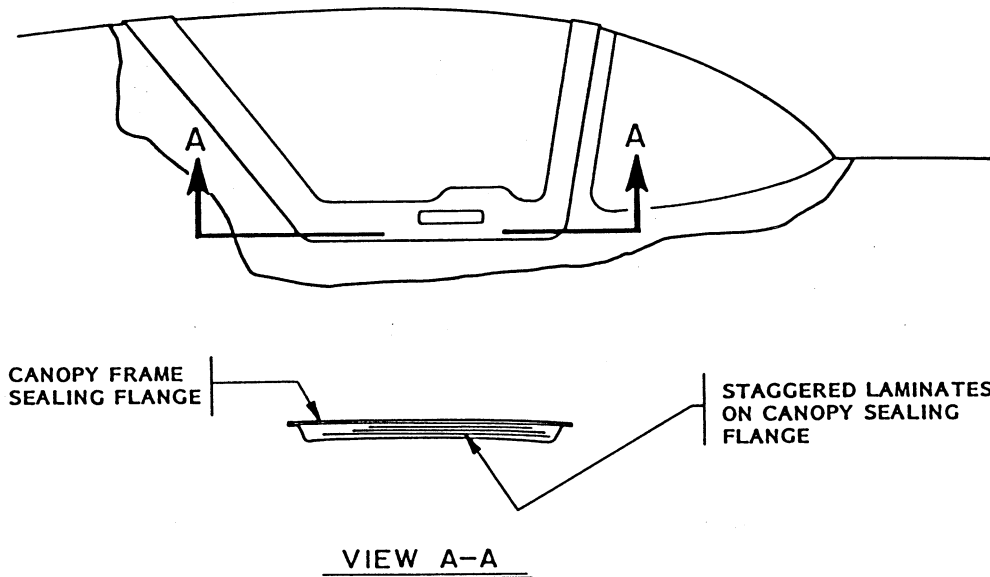


FIGURE (3)

6. Apply bidirectional cloth laminates, cut on the 45° bias, on the inside surface of the canopy sealing flange (as required) to restore the "X" thickness of the sealing flange. Stagger the laminates, as shown in View A-A FIGURE (2), so that the ends of the laminates fair smoothly into the canopy frame. Trim the lower edges of the laminates even with the lower edge of the canopy frame in the green cure state. Sand their upper edges and their ends smooth when cured.

7. Fill any voids or imperfections on the outside surface of the canopy frame with body putty. Also, if the edge of the canopy now matches the fuselage but there is still a slight concave area on the canopy frame, the concave area can be filled with body putty. Thoroughly sand the primer for good adhesion prior to filling.

8. Install the canopy latch as described in the Canopy Latch Installation Instructions of the Instruction Manuals.

COMPLETED [ ]

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