

SERVICE BULLETIN 102

SUBJECT: FORWARD FUSELAGE BELLY SECTION FOAM CORE PLACEMENT

APPLICATION: All Glasair II-S kits shipped between January 1, 1991, and June 18, 1991 (approximate dates)

DESCRIPTION:

An unknown number of the forward fuselage belly section panels were manufactured with the foam core positioned incorrectly. If the foam is positioned correctly, the edge of its forward bevel is located 2" aft of the cowling attach flange joggle, as shown in the following illustrations:

FIGURE (D-28) on page D-55 of the Glasair II-S TD Fuselage Assembly section;

FIGURE (D-25) on page D-51 of the Glasair II-S FT Fuselage Assembly section;

FIGURE (D-24) on page D-50 of the Glasair II-S RG Fuselage Assembly section.

On the incorrect forward belly section panels, the foam core is approximately centered between the forward and aft joggles.

The incorrect foam placement causes a couple of problems when assembling the fuselage:

Fuselage Reinforcement Rib

A reinforcement rib is fabricated near the aft edge of the forward fuselage belly section. (In the RG, this rib is called the fuselage reinforcement rib; in the FT, the rib is called the aft fuselage reinforcement rib; in the TD, the rib is called the aft landing gear support rib.) The rib is designed to be installed on the part of the belly section that has a full thickness of foam core. If the belly section foam core is incorrectly placed, however, the rib will fall aft of the foam core on the solid laminate edge band, resulting in its upper edge being too low relative to the inside belly section laminates. In the FT and TD, the reduced height of the rib may complicate installing the rudder pedals later, and, in the TD, may also complicate installing the main landing gear.

Firewall

The lower edge of the firewall bulkhead is designed to fit against the bevel on the forward edge of the fuselage belly section foam core, as shown in the Instruction Manuals, so that the forward firewall laminates will bond directly to the solid laminate edge band at the forward end of the belly section. The incorrectly placed forward belly section foam core prevents this direct bond and may interfere with future installations, such as the RG nose gear.

SOLUTIONS:

Fuselage Reinforcement Rib

If the foam core in your forward fuselage belly section is incorrectly positioned, add 1/2" to the lower edge of the reinforcement rib foam template and add 1/2" onto both edges of the cloth template. Install the 1/2" taller rib at the position shown in the Instruction Manuals, with the lower edge of the rib's foam core resting on the solid belly section laminates (or tapered as necessary to match the bevel of the belly section foam core). With the rib modified in this way, its upper edge will be the correct height above the inside surface of the belly section foam core.



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Firewall

At the forward end of the forward belly section panel, trim the inside laminates and remove the foam core back to a line 2" aft of the cowling attach flange joggle. Remove all foam residue from the trimmed area to provide a clean surface for bonding.

CAUTION: Be careful not to damage the outside belly panel laminates.

Shape the inside laminates and foam core in the trimmed area to approximately match the contour of the original bevel. Apply a two-layer bidirectional laminate on the 0° bias over the trimmed and beveled area, extending the laminate for about 1" on both sides onto the adjacent original structure. The firewall may now be installed as described in the Instruction Manuals.



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