

SERVICE BULLETIN 64

SUBJECT: MOUNTING HOLE LOCATIONS IN MAIN LANDING GEAR FORWARD SIDE BRACE BRACKETS

APPLICATION: First 50 ship sets of side brace brackets for Glasair II RG aircraft.

MANUAL REFERENCE: Glasair II RG Instruction Manual Volume I, Page C-170.

DESCRIPTION: The first 50 ship sets of Glasair II RG main landing gear side brace brackets were originally fabricated with three #10 mounting holes. The center mounting holes in the aft landing gear side brace brackets cannot be pre-drilled, however, since their positions are determined by the inboard gear door actuating bellcrank pivot bolts. Since the forward side brace bracket on one side is otherwise identical to the aft bracket on the opposite side, rivets were used to plug the two center hole in each bracket so that the same part could be used in both places. Unfortunately, the lower holes in each bracket were also unnecessarily plugged.

The locations specified in the Instruction Manuals for the center holes in the forward brackets position the holes slightly off-center from the original holes. When the center holes are drilled, therefore, the rivets are easily dislodged, resulting in unusable figure eight shaped holes.

NOTE: The positions of the center holes in the aft side brace brackets should not be a problem since they do not fall in the areas of the plugs. Also, simply drilling out the lower rivets should not cause concern because their original positions were correct. The countersink on the inboard side of the mounting flange does not significantly reduce the part's strength and can be left as is.

SOLUTION:

CASE 1, The holes in the side brace brackets have not yet been drilled by the builder:

Disregard the dimensions provided in FIGURE (C-118) on page C-170 of the Instruction Manuals for the positions of the center holes in the forward side brace brackets. Instead, drill out the rivets and use the original holes which have been plugged. Also, drill out the rivets and use the original lower holes in both the forward and aft side brace brackets.

NOTE: To find the center dimples in the manufactured heads of the rivets, use a strong light to look on the inboard side of the bellcrank bracket attach flange. Use a centerpunch, a 3/16" drill bit, and standard rivet removing techniques to drill out the rivets.




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CASE 2, The holes have been drilled in the side brace brackets, resulting in oblong center holes:

Do not use the figure eight shaped holes. Instead, drill new mounting holes 1" above the lower holes.

NOTE: The locations of the two lower holes in each bracket may require angling the attaching nutplates slightly to clear each other and the existing oblong hole.

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