

SERVICE BULLETIN 82 MANDATORY

SUBJECT: POSSIBLE CRACKS IN GLASAIR III 90° INDUCTION ELBOWS AND SUPPORT ARMS

APPLICATION: All Glasair III 90° induction elbows and support arms shipped before 5/01/90.

DESCRIPTION:

Item #1:

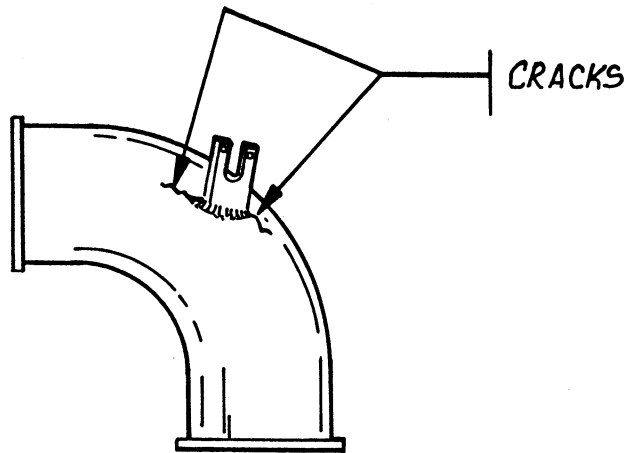


FIGURE (1)

We have had two reports of Glasair IIIs on which cracks were found on the outside radius of the 90° induction elbow. The cracks propagate from the weld at the base of the mixture control cable mounting tab, as shown in FIGURE (1), and in both instances occurred on aircraft with about 100 hours in service.

Item #2:

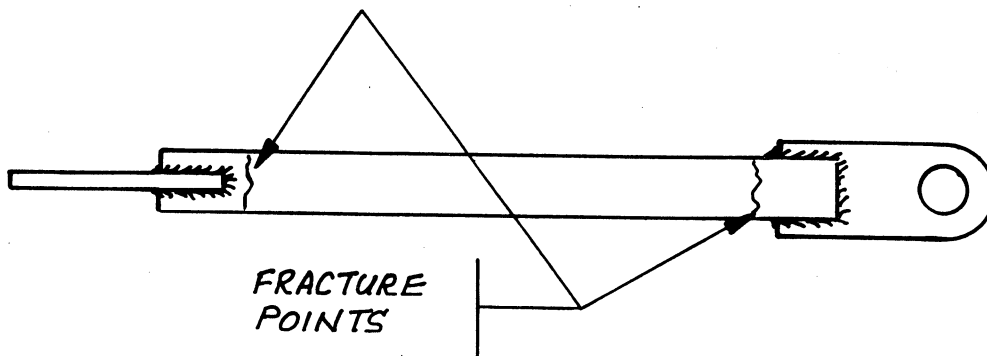


FIGURE (2)

One of the aircraft that reported the induction elbow cracks also had a broken induction elbow support arm. The arm failed just behind the support lug weld, as shown in FIGURE (2).

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STODDARD-HAMILTON
AIRCRAFT, INCORPORATED

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SOLUTION:

*****WARNING: COMPLIANCE WITH THIS SERVICE BULLETIN IS MANDATORY*****

If your Glasair III has accumulated more than 100 hours of flight time, visually inspect the 90° induction elbow and its support arms for cracks in the areas indicated in FIGURES (1) and (2).

If cracks are found, please contact Stoddard-Hamilton Aircraft's product support division for a description of repair procedures.

If no cracks are found, continue to visually inspect this area every 25 hours of flight time or until reinforced per a supplement to this bulletin that will be mailed as soon as our analysis has been completed and reinforcement procedures have been developed.



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