



AIRWORTHINESS DIRECTIVE

TYPES AFFECTED: Glasflugel - Club Libelle 205
Hornet
Mosquito
Mosquito B
Mosquito 304

SUBJECT: Elevator drive/tailplane mounting bracket

BACKGROUND: In 1984 a Hornet sailplane suffered failure of one of the arms of the elevator drive bracket during a landing accident. Further investigation showed that other Hornet owners had found distortion of the bracket after ground loops or heavy landings.

In 1987 the Schempp-Hirth factory issued a Technical Note calling for reinforcement or replacement of the almost identical fitting on their range of sailplanes after an inflight failure.

As a preventative measure, the Schempp-Hirth reinforcing scheme has been adopted for the Glasflugel types affected.

ACTION: 1. Each Daily Inspection until Action 2 is accomplished.

Visually inspect the elevator drive bracket for possible cracks (see Fig. 1) whilst twisting the two elevator halves against each other.

If the bracket is cracked or deformed the sailplane must not be flown.

2. Before 30/6/1988

Remove the elevator drive bracket and reinforce the two arms with additional metal strips (see Fig. 2)

If the bracket arms are twisted out of line they may be carefully straightened (hot) and checked for cracks before welding on the reinforcements.

Clean up and paint the bracket then re-assemble the tailplane making sure the correct number of spacing washers are fitted between the bracket arms & the ball bearings.

IMPELEMENTATION: 1. The Daily inspection must be accomplished by a GFA Daily inspector or higher authority.

2. Fitting of the reinforced elevator drive bracket is to be done by a DoTC inspector authorised C. of A. any type and entered in the sailplane logbook.

Welding must be done by a DoTC licensed aircraft welder or a GFA authorised welder and entered in the sailplane logbook.

Issued by: *R. Burns* Chief Technical Officer,
Airworthiness

17.12.87

For and on behalf of:

GLIDING FEDERATION OF AUSTRALIA

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WEIGHT AND BALANCE: The effect is negligible

MATERIALS: 4130 steel is available from local aviation supply firms.

New elevator drive/tailplane mounting brackets may be obtained from:

Hansjorg Streifeneder
Glasfaser-Flugzeug Service
Luftfahrttechnischer Betrieb 11-A 95 und 1-C 12
7431 GRABENSTETTEN
WEST GERMANY

COMPLIANCE: The requirements of this Airworthiness Directive are mandatory. This Directive is issued pursuant to Air Navigation Regulations under the delegated authority of the Secretary of the Department of Transport and Communication.

FIG. 1.

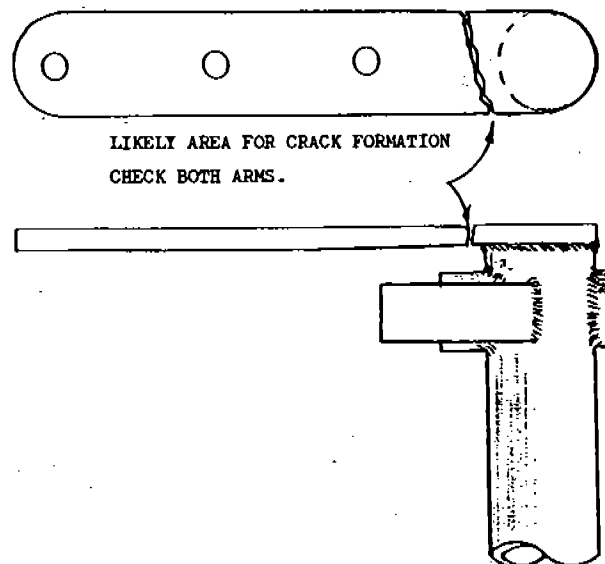
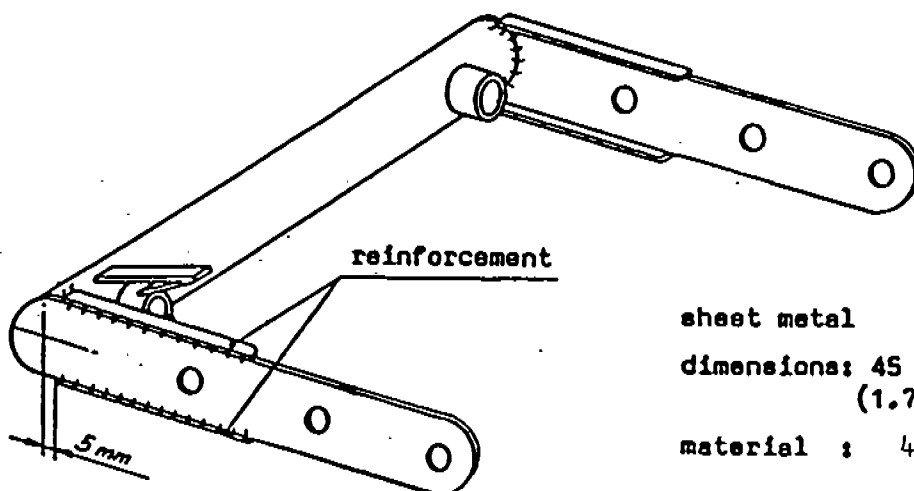


FIG. 2.



sheet metal

dimensions: 45 x 5 x 1.5 mm
(1.77 x 0.20 x 0.06 in.)

material : 4130 steel

Weld with T.I.G. process