GLIDING FEDERATION OF AUSTRALIA

AIRWORTHINESS DIRECTIVE GLIDERS: GFA/AD/157 Glasflugel 7
Ref: Glasflugel AD 401-16

TYPE AFFECTED: Glasflugel Kestrel (17m) Serial numbers 25 to 129 inclusive

SUBJECT: Dive brake control system in both wings.

REASON: Failure of a dive brake control rod end in the welded area caused operational problems.

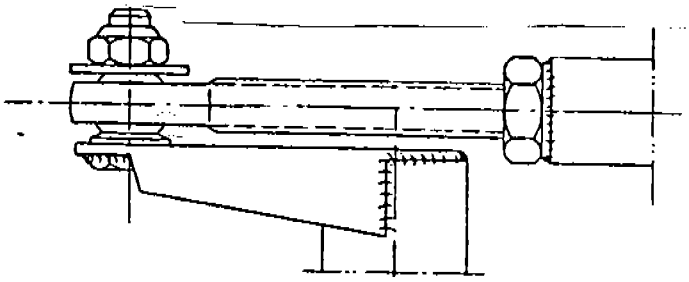
ACTION: Dive brake control rod ends are to be inspected before further flight by means of magnifying glass (min 5 x magnification) and if found defective the aircraft is to be grounded and the rod ends replaced. In any case the rod ends MUST be replaced by not later than 1st October, 1979.

PROCEDURE FOR REPLACEMENT OF ROD ENDS:

1. Obtain from Edmund Schneider Pty. Ltd. the following:

   2 rod ends as per drawing No. 401-56-23
   2 washers, B6, 4 DIN 125 -ST.
   2 washers, B6, 4 DIN 9021-ST.
   Drawing No. 401-56-23
   Drawing No. 201-56-22

2. Replace welded control rod ends as per drawing No. 201-56-22 linked to the dive brake bevel gear, with new turned rod ends according to Dwg. No. 401-56-23. Replacement is effected through rear root rib access holes and installed as per sketch below:



3. By adjusting the rod end length the locking force should be adjusted so that the over-centering moment at the bevel gear actuator head does not substantially exceed one newton/metre. In order to measure this moment the fuselage dive brake actuator tube may be removed temporarily and used for this purpose.

4. Incorporate the following sentence in the Flight Manual on Page 26 "Service and maintenance": "Inspect the lever as well as the lines of weld for flaws by means of a five-fold magnifying glass at every annual inspection at latest"

5. The work to be carried out by persons holding D.O.T. 1109 authorisation for replacement of components on the type and modification entered and signed in the aircraft log book.

COMPLIANCE: The requirements of this A.D. are mandatory. This Directive is issued pursuant to Air Navigation Regulations under the delegated Authority of the Secretary, Department of Transport.

Douglas Lyon

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DOUGLAS LYON
(CHIEF TECHNICAL OFFICER AIRWORTHINESS)