



THE GLIDING FEDERATION OF AUSTRALIA

GFA AD 436

(ISSUE 1)

GFA AIRWORTHINESS DIRECTIVE

- TYPE AFFECTED:** SZD-50-3 Puchacz up to Serial Number B-2056.
- SUBJECT:** Safety locking of the divebrake pivot bolts.
- BACKGROUND:** An incident in Australia occurred where a divebrake pivot bolt in a wing partially unscrewed allowing one side to be unsupported. Excessive freeplay of the divebrakes resulted allowing the divebrakes to jam on the connecting push rod, causing the rod end to bend and preventing the divebrakes from closing fully.
- GFA has contacted the manufacturer who confirmed that there was insufficient safetying of the bolt and have devised a method for securing these bolts.
- DOCUMENTATION:** PZL Bielsko Bulletin BA-047/50-3/94 "PUCHACZ".
- ACTION REQUIRED:**
1. Before next flight the fore and aft freeplay of the divebrakes must be measured and recorded in the maintenance release.
 2. At each daily inspection until action 3 is accomplished the fore and aft freeplay of the divebrakes must be checked against the figure recorded in the Maintenance Release. If the freeplay should increase suddenly Action 3 must be completed before next flight.
 3. Before 31 March, 1995 locking plates must be fitted to the divebrake pivot bolt as described in PZL Bielsko Bulletin BA-047/50-3/94 "PUCHACZ". Alternatively they may be safety locked to a scheme approved by the CTOA. Parts will be distributed to affected serial numbers with this AD. Should extra parts be required or second hand gliders be imported then the parts must be obtained from the PZL Bielsko or their Australian agent.
- WEIGHT AND BALANCE:** Not affected.
- IMPLEMENTATION:** Checking of the divebrake freeplay may be performed by persons rated for Daily Inspection Any Type.
- Installation of the locking plates may be performed by the holder of a DA1109 Glider Inspectors Certificate endorsed for Minor Repairs FRP.
- COMPLIANCE:** The requirements of this GFA Airworthiness Directive are mandatory. This Directive is issued pursuant to the Rules and Regulations of the Gliding Federation of Australia.

SIGNED:

CHIEF TECHNICAL OFFICER AIRWORTHINESS

For and on behalf of:

THE GLIDING FEDERATION
OF AUSTRALIA

PDPs "PZL-BIELSKO"	BULLETIN No BA-047/50-3/94 "PUCHACZ"	Page: 1 of: 3
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BULLETIN No BA-047/50-3/94 "PUCHACZ"

Ref: The case of loosening the screw fastening the distance sleeve on which the air brake plate arm rotates.

Way of introducing: obligatory when this Bulletin is obtained.

Prepared by PDPs-TKS, Aug. 25th, 1994.

Director of "PZL-BIELSKO"

Juliusz ZULAUF, M.Sc.Eng.

This is the translation of the original Polish text approved by Polish Airworthiness Authority.

Translated by

Miesław STAFIEJ, D.Sc.Ae.Eng.

GFA AD 436	ISSUE: 1	23 December, 1994	Page 2 of 4
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PDPs "PZL-BIELSKO"	BULLETIN No BA-047/50-3/94 "PUCHACZ"	Page: 2 of: 3
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1. GROUNDS FOR INTRODUCING THIS BULLETIN

This Bulletin is aimed to improve the securing against loosening of the screws fastening the distance sleeves on which the air brake arms rotate.

2. LIST OF GLIDER FACTORY NOS COVERED WITH THIS BULLETIN

All gliders of SZD-50-3 "PUCHACZ" type up to Fact. No B-2056 included.

3. DESCRIPTION OF THE INTRODUCED CHANGES

The modification depends on the new caps (Fig. 2) glued on the air brake boxes in wings. These caps lock the screw heads and exclude the automatic rotation due to the air brake arms movement.

4. LIST OF ENCLOSURES

4.1. Sketch of the cap - Fig. 4

4.2. Sketch of the repair procedure - Fig. 1, 2 and 3 are enclosed to this Bulletin.

5. PROCEDURES FOR PERFORMING THE MODIFICATION DESCRIBED IN THIS BULLETIN

5.1. Trace the axis and cut-off the ϕ 70 mm openings on the lower covering of lefthand and righthand wing acc. to the sketch on Fig. 1.

5.2. Sand and glue up on inner surface the strengthening of 2 x 92110 fabric.

5.3. Fasten, if necessary, the screw of air brake arm axes, so that the free arm rotation is allowed.

5.4. Cut-off the ϕ 110 mm opening in external skin and foam as shown on Fig. 2 and chamfer the edge around on 25 mm width.

5.5. Glue-up onto the air brake boxes the degreased securing metal pads acc. to Fig. 3.

5.6. Cut the ring of ϕ 110 mm of CC-60 / 55 mm foam, cover with a composition with aerosil, glue the 2 x 92110 fabrics on these rings, glue into the coverings with a composition with aerosil, than press down till it is cured.

5.7. Sand-off the resin surplus.

6. FINAL STATEMENTS

The producer delivers together with this Bulletin:

- 6.1. Four pieces of securing pads.
- 6.2. The changes is to be performed by the user himself and on his own cost.
- 6.3. The changes introduced should be recorded in glider technical documents with Bulletin No included.

- THE END -

Fig. 1

Skrzydło prawe - widok z dołu
Right wing - bottom view

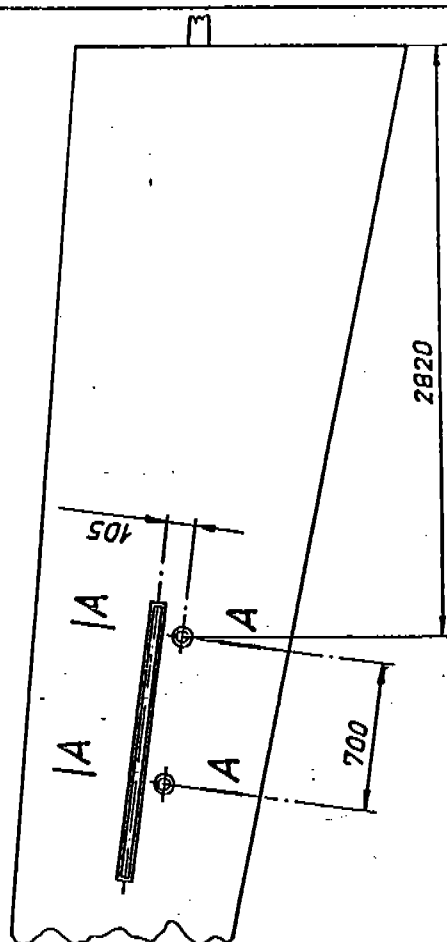


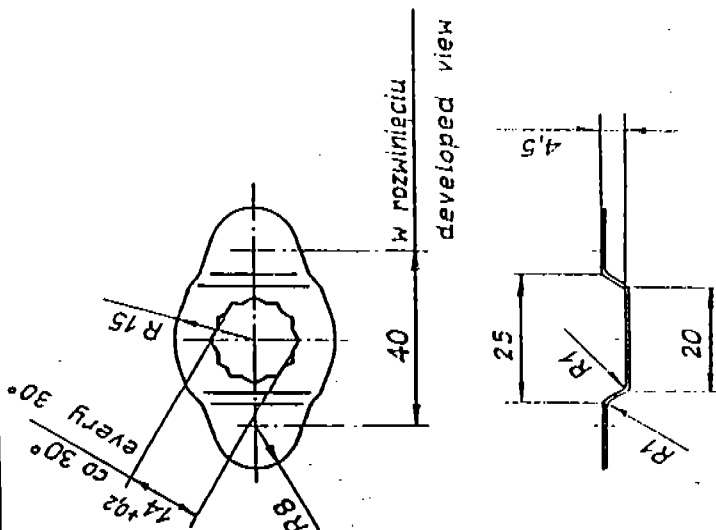
Fig. 4

4-szt. | szybowiec
4 pcs. | glider

material: stal
material: steel

Q6 x 30 x 55

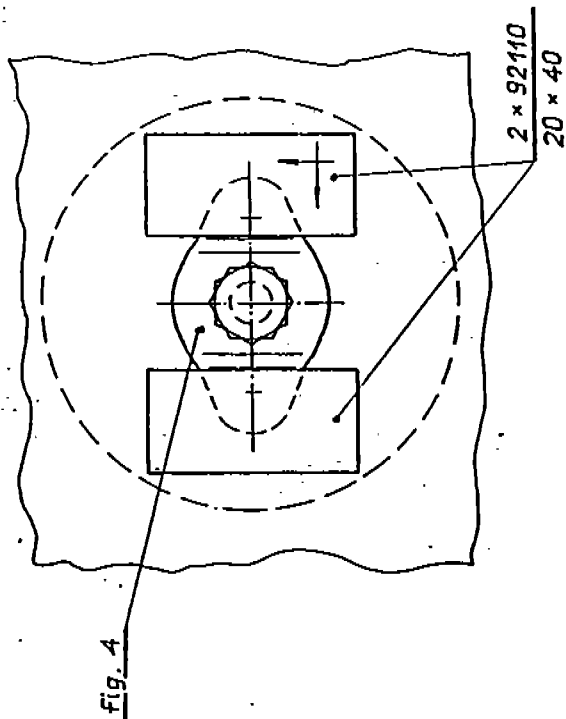
pokryć BWF-21
paint with epoxy primer



BA-047/50-3/34
"Puchacz"

Fig. 3

widok "B" ; "B" view



BA-047/50-3/94 "Puchacz"

