

## THE GLIDING FEDERATION OF AUSTRALIA

**GFA AD 483**  
(ISSUE 1)

### GFA AIRWORTHINESS DIRECTIVE

**TYPE AFFECTED:** PW-5 Smyk

**SUBJECT:** Miscellaneous Service Bulletins.

**DOCUMENTATION:** PZL Swidnik Bulletins 3/PW-5/96, 6/PW-5/97, 8/PW-5/97 and 9/PW-5/97.

**ACTION REQUIRED:**

1. The correct version of the Flight Manual for gliders up to serial number 17.07.009 is PW-5/IWL/II/94. For gliders from 17.07.010 the correct flight manual is PW-5/IWL/III/97 and must include amendment 1.
2. Before 30 September, 1998 the Flight Manual version PW-5/IWL/II/94 and the Maintenance Manual must be amended as follows:

#### Flight Manual.

| Action  | Page | New page dated |
|---------|------|----------------|
| Replace | i    |                |
| Replace | ii   |                |
| Replace | 2.2  | July 96        |
| Replace | 2.3  | July 96        |
| Replace | 2.5  | July 96        |
| Replace | 3.2  | July 96        |
| Replace | 4.2  | July 96        |
| Replace | 4.9  | July 96        |
| Replace | 4.10 | July 96        |
| Replace | 5.3  | July 96        |
| Replace | 7.3  | July 97        |
| Replace | 7.4  | July 96        |
| Replace | 8.1  | July 96        |
| Replace | 8.2  | July 96        |

SIGNED:

*Jonathan Shand*  
CHIEF TECHNICAL OFFICER AIRWORTHINESS

For and on behalf of:

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OF AUSTRALIA

**Maintenance Manual**

| Action  | Page | New page dated |
|---------|------|----------------|
| Replace | 0-1  |                |
| Replace | 0-2  |                |
| Replace | 0-3  |                |
| Replace | 2-22 | July 96        |
| Replace | 2-23 | July 96        |
| Replace | 2-31 | December 97    |
| Replace | 3-8  | July 96        |
| Replace | 4-2  | December 97    |
| Replace | 4-3  | July 96        |
| Replace | 5-1  | July 96        |
| Replace | 5-3  | July 96        |
| Add     | 5-4  | July 96        |
| Replace | 6-2  | July 96        |

3. At the next Annual Inspection the canopy frame profile must be checked and if necessary modified in accordance with Bulletin No 6/PW-5/97 which forms part of this AD.

4. At the next Annual Inspection after 30 September, 1998 the canopy locking handles must be replaced on serial numbers up to 17.08.018 (except S/N 17.08.011). The new handles must be installed in accordance with Figure 1. Parts must be obtained from the manufacturer.

**WEIGHT AND BALANCE:** Not affected

**IMPLEMENTATION:** Manual amendments may be performed by the Certificate Holder.

The inspection in accordance with item 3 and the replacement of the canopy locking handles in accordance with item 4 must be performed by persons rated for Annual Inspections FRP.

Modification of the canopy frame, if necessary, must be performed by persons rated 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.

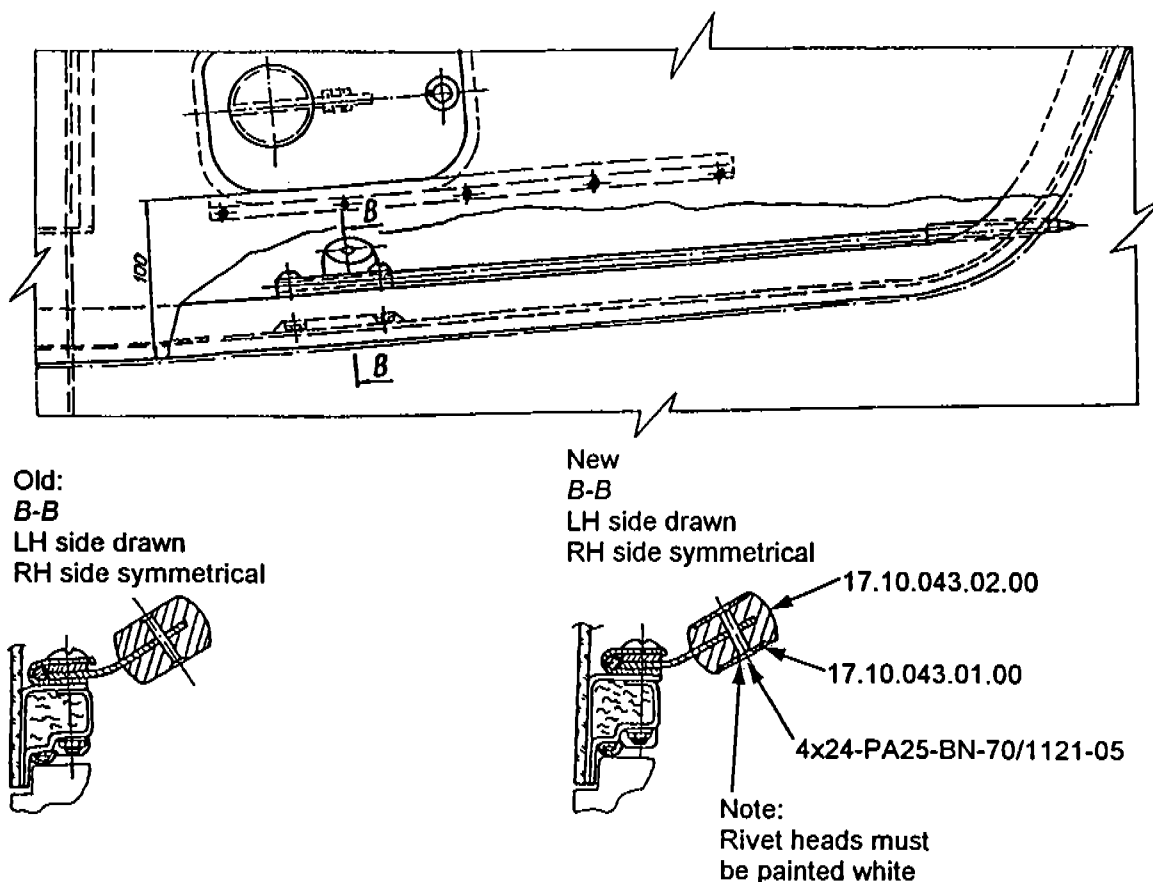


FIGURE 1 CANOPY HANDLE REPLACEMENT

WYTWÓRNA SPRZĘTU KOMUNIKACYJNEGO  
"PZL ŚWIDNIK" S.A.  
Al. Lotników Polskich 1, 21-045 Świdnik



SERVICE BULLETIN NO 6/PW-5/97  
/Mandatory/

Subject: CHECK OF CANOPY FRAME PROFILE SHAPE WITHIN THE BUMPER AREA

Effectivity: Gliders in service, S/Nos:

17.02.002 thru 17.02.005, 17.03.001 thru 17.03.025  
(except 17.03.010 and 17.03.025)  
17.04.001 thru 17.04.025 (except 17.04.007)  
17.05.001 thru 17.05.016 (except 17.05.004); 17.05.009 and  
17.05.014

The original Service Bulletin in Polish language was approved by GILC on 24 June, 1997.

The English translation of the original was approved by the Manufacturer under delegated authority of GILC.

Helena Prus  
GILC Authorized Manufacturer  
Representative



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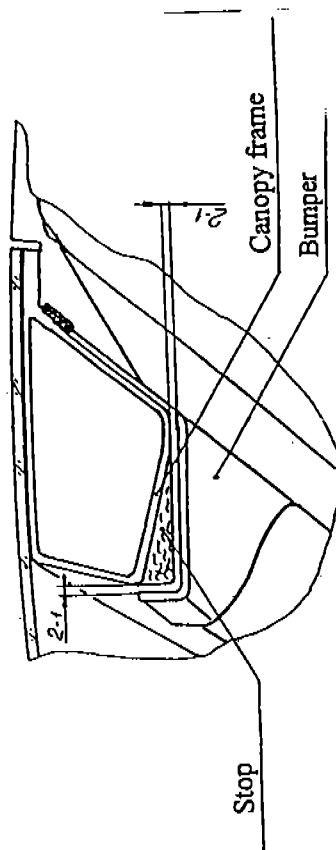
II

If not, proceed as follows:

II. 1

Improve the shape of the rear part of the canopy frame (within the plane of symmetry over the length of overlapping beyond the bumper in the fuselage), making a stop by application a layer of the EP-53+Z1 compound with admixture of flock and carbon black - refer to Sketch 2. When applying, maintain a smooth pathway between the stop and canopy frame.

Sketch 2



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Page 3.



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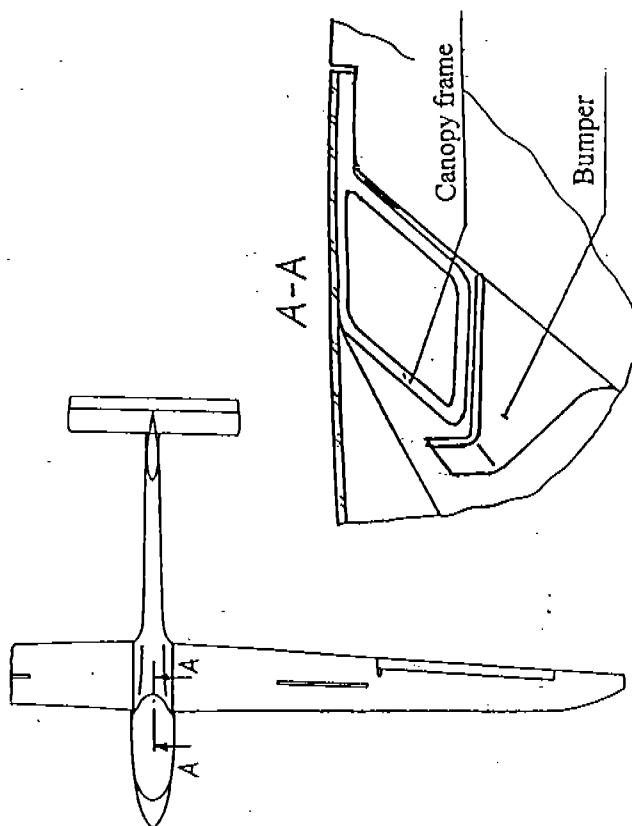
I

Due to several cases of improper shape of the PW-5 glider canopy frame profile as compared with the design documentation which results in mismatching of the canopy frame and fuselage bumper, proceed as follows:

I. 1

Carry out a single inspection of the mating components for technical condition and make sure whether the canopy frame overlaps the bumper as shown on Sketch 1.

Sketch 1



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#### Consumable materials

EP-53 epoxy resin

as per BN-73/6376-01. Manufactured by Chemical Works "Sarzyna" (Poland) or other cold-cured epoxy resins e.g. Araldit (Ciba - Swiss) or Epikote (Shell Chemical, USA)

Z-1 hardener

as per ZN-73/MPCH/OG226 or ZN-PL/1282/8II/9

(CH<sub>3</sub> CH<sub>2</sub>)<sub>3</sub> N<sub>4</sub>H<sub>3</sub>

Flocks (cotton flakes)

Manufactured by WACKER CHEMIE GmbH  
Manufactured by WACKER CHEMIE GmbH

Aerosil

Carbon black

Mix ratio:

EP53 resin

100 parts by weight

Z1 hardener

10.5 parts by weight

Flocks

10-20 g per 100 g of the EP53+Z1

Aerosil

0.5-1.5 g per 100 g of the EP53+Z1

Carbon black

0.5 cm<sup>3</sup> per 100 g of the EP53+Z1

Translated by:

W. Polikowska

6/PW-5/97

Prepared by: S. Romaniszyn

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III

#### Procedure

III. 1

Operator shall inspect the mating components for technical condition and, in case of nonconformance, shall make a stop on the canopy frame as prescribed in II.1.

This work shall be done at Operator's charge and expense.

IV

#### Records

IV. 1

Make an applicable entry on introducing the SB No 4/PW-5/96 in the Glider Log Book.

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