

THE GLIDING FEDERATION OF AUSTRALIA

GFA AD 542
(ISSUE 1)

GFA AIRWORTHINESS DIRECTIVE

TYPE AFFECTED: SZD-50-3 Puchacz

SUBJECT: Replacement of wing-to-fuselage front fitting

BACKGROUND: Cracks have been found in some aircraft in the brackets which wrap around the above fitting. AD 537 requires an inspection to be carried out to check whether or not cracks are present in this bracket.

This AD covers those aircraft in which cracks exceeding the specified length are discovered and details the required actions to replace the entire fitting with a new factory-supplied fitting.

DOCUMENTATION: General Inspectorate of Civil Aviation (Poland) Airworthiness Directive No SP-0094-2000-A and PZL-Bielsko (in bankruptcy) Mandatory Bulletin No BE-049/SZD-50-3/2000 "Puchacz" form part of this AD.

ACTION REQUIRED: Prepare aircraft and remove old fitting, replacing it with the factory-supplied item, all actions to be carried out as required by PZL Mandatory Bulletin BE-049/SZD-50-3/2000 "Puchacz". The replacement fitting and accompanying parts required by the Mandatory Bulletin are obtained by following the instructions in Appendix A to this AD.

WEIGHT AND BALANCE: Not affected.

IMPLEMENTATION: Before further flight. Work to be carried out by the holder of a GFA Airworthiness Authorisation for Major 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:



for CHIEF TECHNICAL OFFICER AIRWORTHINESS

For and on behalf of:

THE GLIDING FEDERATION
OF AUSTRALIA

RZECZPOSPOLITA POLSKA
GLÓWNY INSPEKTORAT LOTNICTWA CYWILNEGO

REPUBLIC OF POLAND
GENERAL INSPECTORATE
OF CIVIL AVIATION

REPUBLIQUE DE POLOGNE
INSPECTORAT GENERAL
DE L'AVIATION CIVILE

ul. Grójecka 17, 02-021 Warszawa, Tel. (4822) 624 42 87, Fax (4822) 629 86 89; (4822) 8225096

Warszawa, dn.18/09/2000

Warsaw, day/month/year

DYREKTYWA ZDATNOŚCI - AIRWORTHINESS DIRECTIVE
Nr SP -0094 -2000 -A

1.Przedmiot: Szybowce / gliders, model: SZD-50-3 „PUCHACZ”

Product (wyrób / model, wyposażenie, numery - product name / model , appliances, numbers)

2.Numer Świadectwa Typu /Orzeczenia: GILC / GICA

Type Certificate/Approval Number (Nazwa Nadzoru - Name of Authority)

3.Dotyczy: Wymiany przedniego zawieszenia kadłuba / Replacement of fuselage front fitting.

Subject (opis usterki, rysunek części - description of the problem, identification of part)

4.Przyczyna wydania: Dyrektywę wydano ze względu na występujące pęknięcia konsol

Reason for the issuance of this AD (dla wyrobów importowanych przywołać AD Nadzoru Lotniczego kraju producenta - for imported products „ as in AD ” point 6.)

przedniego zawieszenia kadłuba mocowanego do wręgi przedniej / AD issued
due to cracks detected in console, of the mounted to fore bulkhead fuselage front fitting

5.Działania korygujące: jak w Biuletynie Obowiązkowym / as in Mandatory Bulletin No.

Corrective action (dla wyrobów importowanych wpisać „ jak w AD ” pkt 6.- for imported products, „ as in AD ” point 6.)

BE-049/SZD-50-3/2000 „PUCHACZ”

6. Nazwa Władz Lotniczych wydających AD: _____

Name of Aviation Authority that issued AD (dot zagranicznych AD, podać Nr i datę wydania - for foreign „AD” give Number and date of issue).

7. Dokumentacja związana: Biuletyn Obowiązkowy / Mandatory Bulletin No.

Ref. publications (Biuletyn Obowiązkowy - Mandatory Bulletin)

BE-49/SZD-50-3/2000 „PUCHACZ”

Niniejsza Dyrektywa Obowiązuje z dniem : 15/10/2000

Effectivity date of this AD: (day/month/year)

Zygmunt MAZAN

Główny Inspektor IKCSP
Chief Inspector of Civil Aircraft Inspection Board



PRZEDSIĘBIORSTWO DOŚWIADCZALNO-PRODUKCYJNE SZYBOWNICTWA

PZL-BIELSKO in bankruptcy

ul. Cieszyńska 325,
tel. +48 (033) 8125021

43-300 BIELSKO-BIAŁA,
fax. +48 (033) 8123739

POLSKA

Orzeczenie GILC IKCSP Nr 023

ACCEPTED BY
Syndic of „PZL – Bielsko”

on: September 6, 2000

[—]
Andrzej Sikora, M.Sc.

APPROVED BY
Chief Inspector of CAIB

on: September 14, 2000

[—]
Zygmunt Mazan, MSc. Eng

MANDATORY BULLETIN No BE-049/SZD-50-3/2000 „PUCHACZ”

DESIGNATION-TYPE/MODEL: SZD-50-3 „PUCHACZ”

SERIA / NUMBER: All gliders of SZD-50-3 “PUCHACZ” model on which cracks have been detected in inspection held according to the BE-048/50-3/200 Bulletin.

CONCERNS: Replacement of fuselage front fitting.

COMPLIANCE TIME: On receiving this Bulletin.

ELABORATED BY:
Responsible for type design

Bogumił Bereś, MSc. Eng.

[—], 24.08.2000

(signature, date)

AGREED WITH:
CAIB Division No X

Senior Eng. of CAIB
Jerzy Mędrzak, M.Sc. Eng

[—], 06.09.2000

(signature, date)

Bielsko-Biała

Translated by

Tadeusz Zboś

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1. GROUNDS FOR ISSUANCE OF THIS BULLETIN

Bulletin issued due to cracks detected in console of the mounted to fore bulkhead fuselage front fitting.

2. LIST OF FACTORY NOS COVERED WITH THIS BULLETIN

Inspection according to the BE-048/50-3/2000 Bulletin to be accomplished on all gliders of SZD-50-3 "PUCHACZ" model after every 100 flying hours, or in annual inspection – every 12 months of calendar.

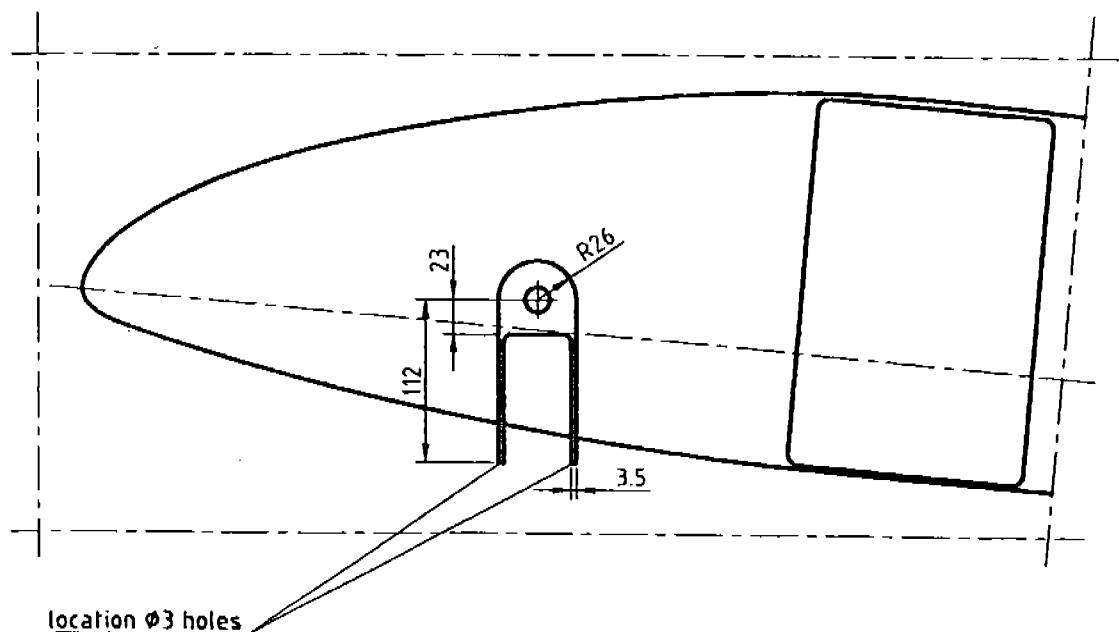
Front fitting replacement must be made on each plane of SZD-50-3 "PUCHACZ" model on which, in inspection, a crack of length exceeding 3 mm has been found.

3. MODIFICATION PROCEDURE

Sequence of operations:

- Make a cut-out in fuselage skin, in accordance with following drawing.

To facilitate marking of cut-out contour, make a hole with 3 mm diameter drill in fuselage skin from inside, close to bulkhead.



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<ul style="list-style-type: none">- Re-bore the tubular rivets fastening front fitting to bulkhead.- Remove the bored rivets and sleeves.- Separate the fitting from bulkhead, and take the former out through the cut-out made (in case of problems with removal, enlarge the cut-out appropriately)- Remove glue joint remains from bulkhead and repair eventual damages.- Insert the new, Producer delivered fitting and assemble wings to verify correct wing & fitting positioning.- On gaining wings and fitting correct position in accordance with openings in bulkhead, mark the holes in consoles of fitting.- Take-out the fitting and enlarge openings acc. to markings made.- Prepare a contact surface between bulkhead and fitting for gluing.- Cover the bulkhead/ fitting contact surface with AEROSIL + resin composition (resin system according to Technical Service Manual must be used)- Embed new fitting and assemble wings, to verify correct wing & fitting positioning.- Ream lower openings both on R.H and L.H. side of bulkhead to 16 mm H7 size.- Insert the Producer supplied special, long bolts in openings, bolt head inside.- Put on washers from bulkhead aft side on both bolts and, on tightening castellated nuts, secure these with cotter pins.- Disassemble wings and ream remaining openings, then install the remaining bolts repeating procedure of three preceding items. <p>Two shorter bolts to be installed in openings closest to fuselage plane of symmetry.</p> <ul style="list-style-type: none">- Repair the cut-out in a rib at fuselage-wing junction from outside, following the Technical Service Manual.- Remove the split angles (ones connecting bulkhead to fuselage skin) from inside in the area of cut-out made, and laminate new ones of 2 x 92125_x fabric, 60 mm wide.		

PDPS
"PZL-BIELSKO"MANDATORY BULLETIN
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of: 4**4. FINAL RESOLUTIONS**

1. Repair to be accomplished at workshop approved by the responsible airworthiness Authority.
2. Labour demand for fitting replacement is 10 work-hours approx.
3. Glider operator will cover all costs of repair and spare parts.
4. The following parts necessary for repair will be delivered by Producer:
 - Fuselage front fitting (modified version) 1 pc
 - Special, short bolt 2 pcs
 - Special, long bolt 4 pcs
 - Castellated nut 6 pcs
 - Washer 12 pcs
 - Cotter pin 6 pcs

Note: CAIB/ GICA approval of this Bulletin concerns technical matters exclusively,
this does not refer to cost and financial arrangements.

5. ENCLOSURES

There are no enclosures to this Bulletin.

- THE END -

PRZEDSIĘBIORSTWO
DOŚWIADCZALNO-PRODUKCYJNE
SZYBOWNICTWA

PZL BIELSKO W UPADŁOŚCI

APPENDIX A

To AD 542

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Adres: ul. Cieszyńska 325 43-300 Bielsko-Biała POLSKA

Bielsko-Biała 27.09.2000

The Gliding Federation of Australia

Mr Mike valentine

Dear Sirs,

Enclosed pls find mandatory Bulletin NO BE-049/SZO-50-3/2000
"PUCHACZ" conc. replacement of fuselage front fitting.

The price of one set necessary parts for repair is 330,-USD
airmail cost 179,- USD

We hope to receive your order as soon as possible, also
please send us exact dispatch address.

Terms of payment - pls pay on our account;

BANK GOSPODARKI ŻYWNOSCIOWEJ S.A. O/Bielsko-Biała
20301101-54830-2700-12787

Swift code: GOPZPLPWBA

till 30th October 2000

Delivery time: we shall every effort to dispatch the
parts in the begining of November.

yours faithfully

SYNDYK
ADWOKAT
mgr Andrzej Sikora