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<h1>SERVICE BULLETIN</h1> <h2>BE-064/50-3/2022</h2>

NAME - TYPE / MODEL: SZD-50-3 „Puchacz”

SERIES / NUMBER All serial built gliders

SUBJECT: Lifetime extension of the SZD-50-3 "Puchacz" gliders up to 12,000 flight hours, and consequent changes to the Technical Service Manual (TSM).

TIME LIMIT FOR COMPLETION:

- Revisions to the TSM - once the bulletin is received.
- Lifetime extension overhaul - before logging 6,750 flight hours, at the user's discretion.

WRITTEN BY
Responsible for the type design

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Issued			Reviewed			Review No.
DAY	MONTH	YEAR	DAY	MONTH	YEAR	
5	5	2022				-

1. JUSTIFICATION FOR THE BULLETIN

SZD-50-3 "Puchacz" gliders, manufactured between 1976 and 2014, still act as the primary training platform in many countries around the world. Being operated broadly and extensively, they are reaching the end of their operational lifetime - 6,750 flight hours (FH), as envisaged by the Bulletin No. BE-051/SZD-50-3/2003.

Meeting the expectations of the Flying Clubs, Allstar PZL Glider, the Type Certificate Holder for SZD-50-3, decided to take action required to extend the lifetime for the "Puchacz" gliders. The experience gathered during the periodic inspections and overhauls, concerning a few of gliders that have logged most of the flight hours, structural analysis supported by durability testing, and the planned "lifetime extension" inspection that would entail replacement of some of the critical elements would make it possible to extend the glider's lifetime up to 12,000 FH.

2. GLIDERS SERIAL NUMBERS SUBJECTED TO THE BULLETIN

The Bulletin concerns all serial built SZD-50-3 "Puchacz" gliders.

3. RESOLUTIONS

The 6,750 FH limit, set by the Bulletin No. BE-051/SZD-50-3/2003, remains valid for all gliders, also including these ones that have logged less than 6,000 FH, provided that they undergo the periodic 1,000 FH inspections, as per the program contained in the Technical Service Manual.

The lifetime extension up to 12,000 FH can be executed, provided that the inspection described in paragraph 4.1. of the bulletin herein is performed.

Gliders with the following factory serial numbers: **B-1984, B-1988, B-1990, B-2024 and B-2043** have had their lifetimes extended up to 12,000 FH individually, as per the following bulletins: BE-053/SZD-50-3/2003 [two], BE-056/SZD-50-3/2004, BE-060/SZD-50-3/2007 and BE-061/SZD-50-3/2009. **The lifetime extension inspections they underwent are considered to be equivalent to the inspection required by paragraph 4.1. of the herein bulletin.** Nonetheless, to keep things in order and the manual homogeneous, relevant revisions to the Technical Service Manual shall be introduced for those gliders in accordance with the paragraph 4.2.

Contrary to the update of the 1,000 FH inspection announced by the aforesaid bulletins, that inspection remains unchanged, and it shall be performed in accordance with the Technical Service Manual relevant for the given glider.

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4. REQUIRED ACTIONS

4.1. Lifetime Extension Inspection

The inspection program involves a detailed verification of the airframe structure and its systems condition, as well as advanced maintenance and servicing works, and overhauls related to the replacement of several parts.

The Type Certificate Holder recommends that the relevant work is carried out solely by maintenance and servicing entities that remain in possession of approval compliant with EASA Part 145, EASA Part M/F, or equivalent, being experienced in maintaining and repairing (structural repairs included) of the SZD-50-3 type gliders.

Before 6,750 FH are logged, inspection shall be carried out, as per the "Lifetime extension program for the glider, up to 12,000 flight hours" (Appendix no. 1), also involving replacement of the following elements:

- Spar pins – part no. 503.14.10.00 (See Appendix No. 3);
- Front fuselage suspension – part no. 503.44.10.00;
- Pin, connecting the wings – part no. 503.14.12.00;
- Tubular spar of the horizontal stabilizer – part no. 503.72.30.00;
- Gear wheels in the airbrake control system – part no. CT.L4.00.01.

Completion of works requires the Certificate of Release to Service (CRS) to be issued.

Then, a test flight shall be executed, as per the "Test Flight Program" (Appendix No. 2), in a full scope of operating conditions, as determined in the glider relevant Flight Manual.

4.2. Revisions to the Technical Service Manual (TSM)

Revisions shall be implemented, for both TSM versions that remain valid:

- Revision No. 10 to the Technical Service Manual with the Schedule of Maintenance Works (acc. to OSTIV), Issue III, September 1980, (Appendix No. 4);
- Revision No. 3 to the Technical Service Manual, Issue I / JAR-22, November 1994 (Appendix No. 5).

A relevant revision shall be entered, according to the manual version assigned to the specific glider.

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5. APPENDICES

1. Document Ref. No.: 50-3.RES.02 "Lifetime extension program for the glider, up to 12,000 hours".
2. Document Ref. No.: 50-3.RES.03 „Test Flight Program”.
3. Document Ref. No. 50-3.RES.04 " Process of pins replacement in the wing spar roots in SZD-50-3 “Puchacz” glider”.
4. Pages of the Technical Service Manual with the Schedule of Maintenance Works, Issue III, September 1980, with Revision No. 10.
5. Pages of the Technical Service Manual, Issue I / JAR-22, November 1994, with Revision No. 3.

6. REMAINING INFORMATION

The user shall implement the bulletin and procure the spare parts and assemblies at his own cost.

The orders shall be placed in Allstar PZL Glider, via e-mail: techsupport@szdallstar.com.

Illustrated Parts Catalogue have been made available here:
<https://szdallstar.com/en/service/technical-documentation/szd-50-3-puchacz/>

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