



Zakład Szybowcowy „Jeżów”  
Henryk Mynarski

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PW-5/IOT/I/98/US

Revision 03

## Pages to replace in the Sailplane Maintenance Manual

### PW-5/IOT/I/98/US

Name – Type / Model:	PW-5 „Smyk”
Bulletin introducing the revision:	BS-17-19-21/ZSJ
Revision number / Date of issue:	03 / 22.03.2019
Pages to replace:	0-1, 0-2, 0-3, 5-3, 6-2

Elaborated:

Head of Design Department



Jędrzej Marjanowski

Approved:

President of  
Zakład Szybowcowy „Jeżów”



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## 0.1 RECORD OF REVISIONS

Any revision of the present Manual must be recorded in the following table.

The new or amended text in the revised page will be indicated by a black vertical line in the left hand margin and the Revision No., and the date will be shown on the bottom left hand corner of the page.

Rev. No	Affected Section	Affected pages	Date of issue	Approval	Date of approval	Date of insertion	Signature
<b>01</b> Sz17-00-1030		0-1 0-2 2-1 2-25 2-26 2-27 2-28 2-29 2-30 2-31 2-32 2-33 2-34	Feb.25 '99	SERVICE BULLETIN No BS-17-99-10	24.03.99	21.05.99	
<b>02</b>		0-1 0-2 2-27 2-29 2-31	Feb. 21 '08	EASA.A.C.08936 Service Bulletin BS-17-08-19/ZSJ	21.02.08		
<b>03</b>		0-1 0-2 0-3 5-3 6-2	Mar. 22 '19	Service Bulletin BS-17-19-21/ZSJ EASA Major Change Approval No. 10069930	20.05.2019		

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**0.2 LIST OF EFFECTIVE PAGES**

Section	Page	Date of Issue	Section	Page	Date of issue
0	0-1	Mar. 22 <sup>nd</sup> 2019		2-20	June 15 <sup>th</sup> , 1998
	0-2	Mar. 22 <sup>nd</sup> 2019		2-21	June 15 <sup>th</sup> , 1998
	0-3	Mar. 22 <sup>nd</sup> 2019		2-22	June 15 <sup>th</sup> , 1998
	0-4	June 15 <sup>th</sup> , 1998		2-23	June 15 <sup>th</sup> , 1998
1				2-24	June 15 <sup>th</sup> , 1998
	1-1	June 15 <sup>th</sup> , 1998		2-25	Feb. 25 <sup>th</sup> , 1999
	1-2	June 15 <sup>th</sup> , 1998		2-26	Feb. 25 <sup>th</sup> , 1999
	1-3	June 15 <sup>th</sup> , 1998		2-27	Feb. 21 <sup>st</sup> 2008
	1-4	June 15 <sup>th</sup> , 1998		2-28	Feb. 25 <sup>th</sup> , 1999
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				2-30	Feb. 25 <sup>th</sup> , 1999
	2-1	Feb. 25 <sup>th</sup> , 1999		2-31	Feb. 21 <sup>st</sup> 2008
	2-2	June 15 <sup>th</sup> , 1998		2-32	Feb. 25 <sup>th</sup> , 1999
	2-3	June 15 <sup>th</sup> , 1998		2-33	Feb. 25 <sup>th</sup> , 1999
	2-4	June 15 <sup>th</sup> , 1998		2-34	Feb. 25 <sup>th</sup> , 1999
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	2-6	June 15 <sup>th</sup> , 1998		3-1	June 15 <sup>th</sup> , 1998
	2-7	June 15 <sup>th</sup> , 1998		3-2	June 15 <sup>th</sup> , 1998
	2-8	June 15 <sup>th</sup> , 1998		3-3	June 15 <sup>th</sup> , 1998
	2-9	June 15 <sup>th</sup> , 1998		3-4	June 15 <sup>th</sup> , 1998
	2-10	June 15 <sup>th</sup> , 1998		3-5	June 15 <sup>th</sup> , 1998
	2-11	June 15 <sup>th</sup> , 1998		3-6	June 15 <sup>th</sup> , 1998
	2-12	June 15 <sup>th</sup> , 1998		3-7	June 15 <sup>th</sup> , 1998
	2-13	June 15 <sup>th</sup> , 1998		3-8	June 15 <sup>th</sup> , 1998
	2-14	June 15 <sup>th</sup> , 1998		3-9	June 15 <sup>th</sup> , 1998
	2-15	June 15 <sup>th</sup> , 1998		3-10	June 15 <sup>th</sup> , 1998
	2-16	June 15 <sup>th</sup> , 1998		3-11	June 15 <sup>th</sup> , 1998
	2-17	June 15 <sup>th</sup> , 1998		3-12	June 15 <sup>th</sup> , 1998
	2-18	June 15 <sup>th</sup> , 1998		3-13	June 15 <sup>th</sup> , 1998
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	3-19	June 15 <sup>th</sup> , 1998			
	3-20	June 15 <sup>th</sup> , 1998		8-1	June 15 <sup>th</sup> , 1998
	3-21	June 15 <sup>th</sup> , 1998		8-2	June 15 <sup>th</sup> , 1998
	3-22	June 15 <sup>th</sup> , 1998		8-3	June 15 <sup>th</sup> , 1998
	3-23	June 15 <sup>th</sup> , 1998		8-4	June 15 <sup>th</sup> , 1998
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	3-26	June 15 <sup>th</sup> , 1998		8-7	June 15 <sup>th</sup> , 1998
	3-27	June 15 <sup>th</sup> , 1998		8-8	June 15 <sup>th</sup> , 1998
	3-28	June 15 <sup>th</sup> , 1998		8-9	June 15 <sup>th</sup> , 1998
				8-10	June 15 <sup>th</sup> , 1998
	4-1	June 15 <sup>th</sup> , 1998		8-11	June 15 <sup>th</sup> , 1998
	4-2	June 15 <sup>th</sup> , 1998		8-12	June 15 <sup>th</sup> , 1998
	4-3	June 15 <sup>th</sup> , 1998		8-13	June 15 <sup>th</sup> , 1998
5	5-1	June 15 <sup>th</sup> , 1998	9	9-1	June 15 <sup>th</sup> , 1998
	5-2	June 15 <sup>th</sup> , 1998		9-2	June 15 <sup>th</sup> , 1998
	5-3	Mar. 22 <sup>nd</sup> 2019			
	5-4	June 15 <sup>th</sup> , 1998			
6	6-1	June 15 <sup>th</sup> , 1998			
	6-2	Mar. 22 <sup>nd</sup> 2019			
7	7-1	June 15 <sup>th</sup> , 1998			
	7-2	June 15 <sup>th</sup> , 1998			
	7-3	June 15 <sup>th</sup> , 1998			
	7-4	June 15 <sup>th</sup> , 1998			
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- 14) Check the condition and sure securing of the connection of sailplane structure parts and control systems.
- 15) Check the condition and correct operation of the towing cable release system and hooks. The hooks should release simultaneously.
- 16) Check the condition of anti-corrosion protection of metal parts.
- 17) Check the electrical bonding between the towing hook and not painted part of the control stick.
- 18) Clean and grease the parts to be lubricated acc. to item 3.3.
- 19) Check the control forces acc. to item 2.6.3.
- 20) Check the correct operation of control system.
- 21) Check the tightness of instrument pressure system.
- 22) Check the adjustment of air brake acc. to item 3.4.2.

### 5.3 SCHEDULE OF PERIODIC WORKS

The schedule of periodic has to be used:

Term of work	Work acc. to item 5.2
On the beginning of flying season or after prolonged storage	1 through 22
Every 50 flying hours	1, 9, 11, 12, 14
Every 200 flying hours	1 through 9, 11 to 18
After every 1000 flying hours, until reaching 4000 hours total flying time	Acc. to „Overhaul after every 1000 flying hours” (item 5.4). Overhaul performed only by unit/person authorized by manufacturer. Contact manufacturer for instructions.
After reaching 4000 hours and additionally after 4500 hours flying time, on supervised operation rules	
After heavy landing	1 through 5, 8, 11, 12, 19, 20, 21
On the end of flying season or before the prolonged storage	1 through 5, 9, 11, 12, 16, 18

## 6.1 INTRODUCTION

Section 6 contains the life-time data on sailplane and parts which are subjected to the replacement except of those listed in Sections 4 and 9.

## 6.2 ALLOWED SAILPLANE LIFE-TIME

The allowed sailplane life-time except of parts listed in item 6.3 and Sections 4 and 9 is 4000 flying hours.

### NOTE:

**The allowed life-time will be extended in line with fatigue-test advance.**

If the glider reaches 4000 hours total flying time before the allowed life-time is increased again, allowed is supervised operation based on technical condition assessment, up to 5000 hours total flying time at maximum.

## 6.3 LIST OF THE PARTS TO BE REPLACED WITHIN THE SAILPLANE LIFE-TIME

The following parts should be replaced regardless of their condition:

Item	Part	Allowed life-time
1	rudder tension members	12 years *
2	wheel brake tension member	12 years *
3	towing cable release tension members	12 years *
4	undercarriage shock-absorber rubber rings	2000 landings or 6 years whichever comes first

\* For all cables, possible is extension of life-time to 15 years, provided the annual inspections are performed after exceeding the 12 years basic period of operation.