



# AIRWORTHINESS DIRECTIVE

THE GLIDING FEDERATION OF AUSTRALIA Inc

## GFA AD 680 Issue 1

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**Date: 20 February 2015**

Note: This Airworthiness Directive is issued by the Gliding Federation of Australia

<b>Type Certificate Holder</b>	Zaklad Szybowcowy' Jezow' Henryk Mynarski
<b>Manufacturer</b>	PZL-Bielsko
<b>Types/Models Affected</b>	<b>Model SZD-36A Cobra 15</b>
<b>Serial Numbers</b>	All serial numbers
<b>Subject</b>	<b>EASA Approved Major Change – Life Extension from 2000 to 4000 hrs including additional checks and mandatory 300 hr/ 36 month inspection and introduces Operational Limitations through Flight Manual, Maintenance Manual and Cockpit Placarding amendments.</b>
<b>Implementation</b>	<b>MANDATORY</b>
<b>Background</b>	Major change approved by EASA 13/09/2010. The Bulletin 007/36/2010 addresses the continuing maintenance and operational requirements due the Cobra 15 aging wooden structure. This Bulletin raises a service life extension inspection schedule and approves the airframe life increase to 4000 hrs.
<b>Documentation</b>	Mandatory Bulletin BE-007/36/2010
<b>Required Action(s)</b>	The glider Registered Operator must ensure the requirements detailed in Bulletin BE-007/36/2010 are incorporated and this Airworthiness Directive is recorded in the appropriate section of the logbook along with any maintenance actions as detailed in this bulletin.
<b>Compliance, Compliance Time(s) and Frequency</b>	Compliance with this Airworthiness Directive is mandatory and compliance, including action taken pursuant to this Airworthiness Directive must be recorded in the aircraft log book.

<b>Effect on Weight and Balance</b>	No effect unless repair required.
<b>Effective Date</b>	20/03/2015

# Mandatory Bulletin

## BE-007/36/2010

Aircraft Type / Model: **SZD-36A „Cobra 15”**

Serial Numbers: **All gliders in service**

Concerns: **Conditions for further operation.  
Extension of the Service Life.**

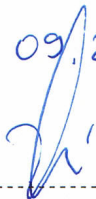
Compliance: **Immediately on receiving this Bulletin**

Distribution: **Reg. No. .... Serial No. ....**

Elaborated by:

Responsible for Type Design

Date: 15.09.2010

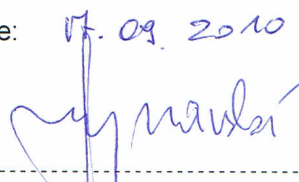


Jerzy Cisowski, MSc. Eng.

Approved by:

President of Glider Factory  
„Jeżów”

Date: 17.09.2010



Henryk Mynarski

Glider Factory „Jeżów” Henryk Mynarski EASA No. AP 143	Bulletin BE-007/36/2010	Page 2 of 4
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## 1. Grounds for introducing the bulletin

The bulletin is introduced in order to enable further operating of the wooden structure gliders due to age reasons.

Operational limitations are introduced, irrespective of glider's current total flying hours.

The 300-hour inspection execution rules are corrected as well as a wing free transverse vibrations frequency check during this inspection is introduced.

On the basis of many gliders inspections, including inspections carried out after 2000 flight hours, as well as on the basis of repairs, including post-accident ones, the Glider Factory „Jeżów” states that there is a possibility of further operation of the SZD-36A „Cobra 15” gliders more than the current limit of 2000 flight hours specified in Bulletin BE-005/36/81.

All changes described in this bulletin have been approved by EASA „Major change approval” No. 10031789 dated on 13.09.2010.

## 2. List of gliders covered by this bulletin

The Bulletin concerns all SZD-36A „Cobra 15” gliders whose technical condition makes their further operation possible.

## 3. Provisions

### 3.1 Operational limitations

The following limitations are introduced:

— never exceed speed	$V_{NE} = 185 \text{ km/h}$
— rough air maximum speed	$V_{RA} = 140 \text{ km/h}$
— manoeuvring speed	$V_A = 140 \text{ km/h}$
— maximum aerotowing speed	$V_T = 140 \text{ km/h}$
— intentional spin prohibited	
— maximum load factors	+4 / -1,5

These limitations should be entered into the Flight Manual.

The information with these limitations should be put in the glider cockpit in a place that is clearly visible to the pilot when in flight.

### 3.2 Service life extension

The glider's service life is extended to the limit of 4000 total flight hours, provided that the service life extension inspection is carried out in accordance with the „SZD-36A Cobra 15 gliders service life extension inspection schedule”. The inspection should be carried out by the Glider Factory „Jeżów” or other

Glider Factory „Jeżów” Henryk Mynarski EASA No. AP 143	Bulletin BE-007/36/2010	Page 3 of 4
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appropriately certified maintenance organization authorized by the Type Certificate holder.

### 3.3 300-hour inspection

The 300-hour inspection (according to Appendix 5 to the Maintenance Manual), should be carried out systematically and at least every 36 months. The inspection should be carried out by Glider Factory „Jeżów” or other appropriately certified maintenance organization.

### 3.4 Wing free transverse vibrations frequency should be checked during 300-hour inspection:

- after rigging, during initial checking,
- within the final check of the inspection.

The value of a wing free transverse vibrations frequency should be  $200 \pm 20$  [1/min]. Another value or value differing from that one received during previous check may indicate wing structural damage.

The measurement result should be entered into the glider maintenance protocol.

### 3.5 Changes to the Maintenance Manual

Page 3-4 in the Periodic Maintenance Schedule should be replaced with page 3-4a.

## 4. Compliance time

### 4.1 The operational limitations should be introduced immediately on receiving this Bulletin.

### 4.2 The post-service life inspection should be carried out before the total flight time of 2000 hours is reached (but not before 1700 hours).

The special inspections that have already been carried out on some gliders, the purpose of which was individual extension of the service life, may be considered equivalent to the above service life extension inspection. The decision on this matter may be referred to the Type Certificate holder.

### 4.3 The nearest 300-hour inspection should be carried out not later than 36 months after the last 300-hour inspection. In case the 36-months period is exceeded, either the 300-hour inspection or the service life extension inspection is required as a condition for glider further operation.

Glider Factory „Jeżów” Henryk Mynarski EASA No. AP 143	Bulletin BE-007/36/2010	Page 4 of 4
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## 5. Final provisions

5.1 For gliders registered in Poland, this Bulletin replaces the Bulletin IKCSP No. 1/97, revision No. 2, within the scope of the SZD-36A „Cobra 15” type gliders.

5.2 The Bulletin execution costs are covered by the user.

## 6. Enclosures

The Maintenance Manual pages specified in item 3.5.

THE END

# GLIDER SZD-36A „COBRA-15”

## PERIODIC MAINTENANCE SCHEDULE

### 3.4. PERIODIC MAINTENANCE SCHEDULE

Number of flight hours	Actions and works to be carried out in accordance with Chapter 3.3
Every 50 flight hours	Items from 1 to 8 inclusive. Check control cables on cable pulleys.
Every 100 flight hours or every 12 months	Items from 1 to 21 inclusive.
Every 300 flight hours but not less frequently than every 36 months	Inspection according to „300-hour Inspection Program” (Appendix 5), as well as a wing free transverse vibrations frequency check in accordance with Bulletin No. BE-007/36/2010, point 3.4.
After 1200 flight hours	Inspection in accordance with „300-hour Inspection Program” carried out by the Producer’s maintenance organization or another authorized maintenance organization. The quality control department of the maintenance organization may extend the range of the inspection (depending on the condition of a glider).
After 2000 flight hours	Technical inspection according to the “SZD-36A Cobra 15 gliders post-service life inspection schedule” in accordance with Bulletin No. BE-007/36/2010 point 3.2.

### 3.5. REPAIRS

The repair and date range depend on the result of the 300-hour inspection specified in Appendix 5 (including a free transverse vibrations frequency check).

- 3.5.1. Repairs aiming at elimination of defects according to item 7.0.2.a/ of the „300-hour Inspection Program” may be carried out by the user on his own.
- 3.5.2. Repairs aiming at elimination of defects according to item 7.0.2.b/ of the „300-hour Inspection Program” should be carried out by the Producer’s maintenance organization or by another authorized maintenance organization.

### 3.6. GLIDER’S SERVICE LIFE

Glider’s service life is 2000 flight hours.

The service life is extended up to 4000 flight hours provided that the post-service live inspection according to the Bulletin BE-007/36/2010 point 3.2 is carried out with a positive result.