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APPROVED BY

Responsible Factory Manager

on .....11.01.1999.....

.....[E. Margański].....

APPROVED BY

Chief Inspector of CAIB

on .....20.01.1999.....

.....[Z. Mazon].....

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**MANDATORY BULLETIN**

**N° BO 14/99**

(category: MANDATORY or SERVICE)

**NAME - TYPE / MODEL:** MDM-1 „Fox”

**SERIES / NUMBER:** prototype series / Factory N° P-14 + 10,  
series I / Factory N° 201 + 225

**CONCERNS:** Change of elevator mass balancing

**WAY OF INTRODUCING:** Immediately after receiving this Bulletin

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**ELABORATED BY:**

Responsible for Type project

...[E. Józefowicz]...11.01.1999...  
(signature, date)

**AGREED WITH**

CAIB Division N° **X**.....

...[J. Mędrzak]...14.01.1999  
(signature, date)

Place ...*Bielsko-Biała*.....

**TRANSLATED BY:**

**Tadeusz Zboś**

Anerkannt vom  
Luftfahrt-Bundesamt



*H. Gels*

16. März 1999

1. Grounds for introducing this Bulletin

Data relating to control surfaces and ailerons mass balancing have been introduced in Technical Service Manual erroneously, according to values used during flutter tests, instead of the ones evaluated on basis of flutter calculations.

Elevator mass balancing is incorrect in relation to evaluated data and requires correction.

2. List of gliders covered with this Bulletin

Factory N° P-14 ÷ P-16, 201 ÷ 225

3. Modification introduced with this Bulletin

C.G. location indicated in page 36 point 2.8 of Technical Service Manual, changes from „≤ 48 mm” to „≤ 30 mm”.

As control surfaces' mass balancing on particular gliders differ one from another, Users receive appropriate balancing weights with this Bulletin, as well as a sketch and description of method for installation of these weights on the elevator.

Sketch and description of method for installation of balancing weights on the elevator (see page 3).

4. List of enclosures

a) page 36 of Technical Service Manual;

b) balancing weights (2 pcs.), drill, 6 screws (including 2 spares) for „A” version, 4 screws (including 2 spares) for „B” version.

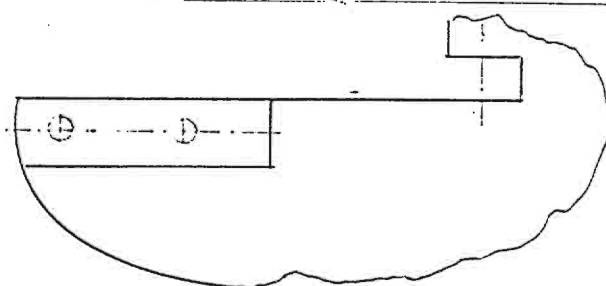
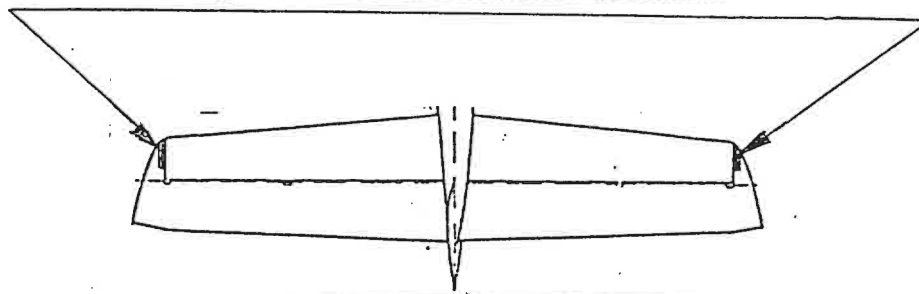
5. Method for balancing weights installation

**NOTE THE DIFFERENCE BETWEEN MARKING AND SHAPE OF WEIGHTS FOR RIGHT AND LEFT SIDE (R, L), AND IF NUMBER WRITTEN ON THE WEIGHT CORRESPONDS WITH GLIDER'S FACTORY NUMBER**

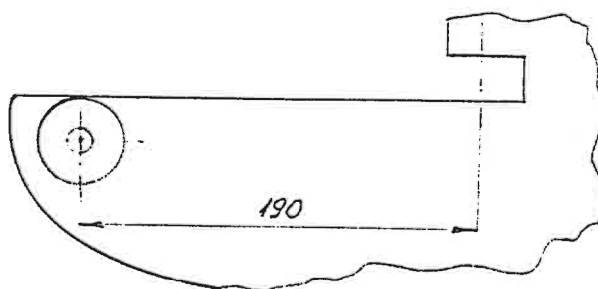
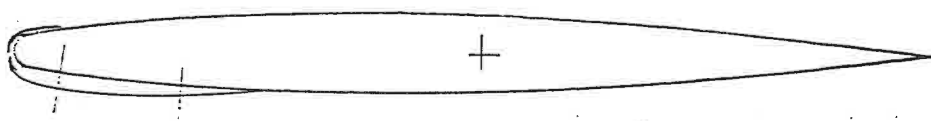
1. Mark weights location on the bottom side of elevator tip.
2. Drill holes for fastening screws.
3. Matt the marked surface.
4. Cover weight's gluing surface with polyester glue or with putty.
5. Install and fix weights with screws.
6. Remove excess glue or putty with a cloth (eventually moisten in dissolvent).

Sketch presenting method of balancing weights installation on the elevator

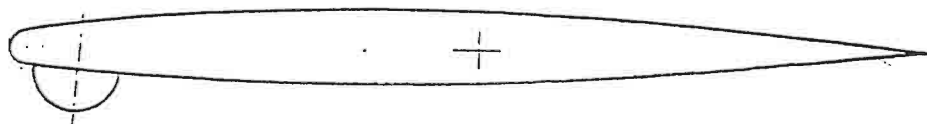
Weights location on bottom side of elevator



„A” version  
weights with mass  
over 250 g



„B” version  
weights with mass  
below 250 g



6. Final statements

- Bulletin is elaborated in such way, that modification to the glider can be made by a User who does not possess any specific qualifications, employing materials and tools supplied by the glider manufacturer. Anticipated labour-consumption is: 1 ÷ 2 hrs.
- It is essential to take into account the changes introduced with this Bulletin while evaluating glider's actual C.G. location. These changes have been taken into account in Bulletin N° BO 13/99.
- Weights fitted up in accordance with this Bulletin bring glider C.G. to correct location. Weights' mass was calculated with assumption, that the User did not make any changes which could influence C.G. location. In case that such changes were made, the elevator has to be balanced in accordance with point 2.6 of Technical Service Manual.
- Replacement of page 36 in Technical Service Manual should be indicated in Manual's Record of Revisions table.

THE END