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APPROVED BY

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Responsible Factory Manager

Chief Inspector of CAIB

on 11.01.1999

on 20.01.1999

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[Edward Margański]

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MANDATORY BULLETIN

N° BO 13/99

(category: MANDATORY or SERVICE)

NAME - TYPE / MODEL: MDM-1 „Fox”

SERIES / NUMBER: prototype series / Factory N° P-14 ÷ 16,
series I / Factory N° 201 ÷ 225

CONCERNS: Enlarging of removable balancing weight and revision to rear limit of allowed C.G. position of empty glider (which results in necessity of permanent correction weight installation on MDM-1 FOX type gliders).

WAY OF INTRODUCING: Immediately after receiving this Bulletin

ELABORATED BY:

AGREED WITH

Responsible for Type project

CAIB Division N°

.....[-----].....
(signature, date)

[Edward Józefowicz], 11.01.1999

.....[-----].....
(signature, date)

[Jerzy Mędzrak], 14.01.1999

Place ...*Bielsko-Biała*.....

TRANSLATED BY:

TZb
Tadeusz Zboś

1. Grounds for introducing this Bulletin

While verifying glider Manuals, French airworthiness Authority stated inaccuracies in the formulas, provided in Technical Service Manual to be used in determination of allowed glider loading conditions. Incorrect values inserted erroneously at the stage of Manual elaboration could, under certain loading conditions, result in exceeding the rear limit of allowed in-flight C.G. position. In order to ensure the correct in-flight C.G. position at every, Manual allowed loading conditions, it has been found necessary to enlarge the removable balancing weight, as well as to change the rear limit of allowed empty glider C.G. position from 66.5 cm to 64.5 cm, aft of wing leading edge at root rib.

2. List of gliders covered with this Bulletin

Factory N° P-14 ÷ P-16, 201 ÷ 225

3. Modification introduced with this Bulletin

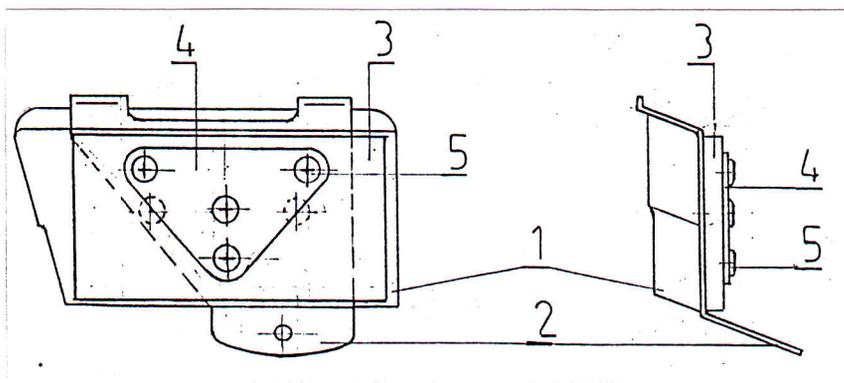
Necessary modification includes enlarging mass of removable balancing weights, required while flying with lightweight crew. These are changed from 8.5 kg to 11.0 kg by installation of two segments, weighing 1.25 kg each.

Additionally, in gliders with Factory Nos. P-15, P-16, 205, 206, 209, 212, 213, 214, 216, 217, 218, 219, 220, 221, 221, 222, 223, 225, covered with this Bulletin, it is necessary to introduce a permanent weight of 1 to 3,5 kg - depending on particular glider. This ballast should be installed inside one of two intended for this purpose chambers, located in front of the front seat, below location of removable balancing weights installation.

Due to the above mentioned modifications, it is necessary to introduce changes in glider's Manuals, as well as to change the „LOADING PLAN” placard in glider's cockpit.

4. Modification procedure

4.1. Correction of removable balancing weights' mass:



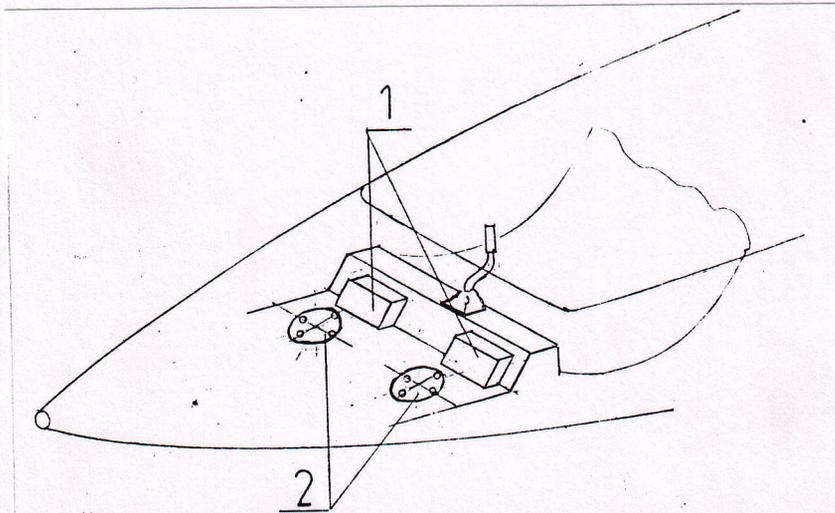
- 1- existing ballast
- 2- existing ballast's fastening plate
- 3- lead plate
- 4- steel cap
- 5- screws

- place lead plate (3), together with steel cap (4) over existing ballast (1). After adopting these to match each other, drill 4 holes through the lead of existing ballast and its fastening plate. Use the new steel cap together with lead plate to pilot the newly drilled holes;

NOTE: DRILL CAREFULLY IN LEAD; APPLY LUBRICANT ON THE DRILL

- after the holes are drilled, fasten the whole set with 4 screws (5).
- The manufacturer supplies with this Bulletin: additional balancing weights, steel caps, drill, 12 screws (including 4 spare ones).

4.2. Correction of empty glider C.G. location:



1- removable ballast
2- ballast chambers
covers

- unscrew 4 screws fastening ballast chamber cover, and remove the cover;
- place bag with lead shots (correction weight) inside ballast chamber;
- in order to prevent the ballast from moving inside the chamber, fill remaining empty space tightly with foamed polystyrene granulate supplied with Bulletin;
- place and screw the cover on.

4.3. Replacement of LOADING PLAN placard in glider's cockpit:

- remove existing LOADING PLAN placard;
- clean the surface where placard was glued on;
- glue new placard on.

4.4. Replace appropriate pages in Technical Service Manual and Flight Manual

5. **List of enclosures**

- Pages: 6, 34, 35, 46 for Technical Service Manual;
- Pages: 1.4, 2.4, 2.6, 6.3 for Flight Manual;
- LOADING PLAN placard – to be placed in glider's cockpit.

5. 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.
- With this Bulletin producer supplies the filled pages: 6.3 of Flight Manual and 35 of Technical Service Manual. The above mentioned pages were filled with assumption, that User did not make any changes which could influence the C.G. location. In case that such changes were made, these have to be taken into account while calculating actual glider C.G. location.
- Correction balancing masses were set with consideration for changes of empty glider C.G. location introduced by Bulletin N° BO 14/99.
- Page replacement in Technical Service Manual and Flight Manual should be indicated in Manual's Record of Revisions table - appropriately.
- Both removable additional segments of balancing weight and permanent correction weight are handed over to the User together with this Bulletin.

THE END