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EASA.21J.117

SERVICE BULLETIN No: BO-25/2018 MDM-1 FOX


DESIGNATION-TYPE/MODEL: MDM-1 FOX

SERIA / NUMBER: All MDM-1 FOX model gliders, S/N 238 and below
variants: MDM-1 FOX, MDM-1P FOX-P

CONCERNS: modification of Bowden cable of C.G. release

COMPLIANCE TIME: at the discretion of operator,
suggested at the annual/ 100-hour inspection

The technical content of this document is approved
under the authority of DOA ref. EASA.21J.117

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Bielsko-Biała, 05.08.2018

1. GROUNDS FOR ISSUANCE OF THIS BULLETIN

The possibility and effect of collision, between G-88's free steel cable and aileron's control system, were analysed. Results showed that such a collision could lead to an increase in control force, ultimately to blocking the control system. It was established that the original installation of the winch hook elements in the manufacturing process should not lead to dangerous situations. However, any self-made installation or modification to the releases design, combined with inaccuracies in the production process, may lead to the collision described above.

Therefore, in order to eliminate the potential collision, the modification has to be implemented. The modification reduces the length of the free steel cord, by extending and changing the angle of the Bowden cable outer housing.

At the same time, during the overhaul of the control system of front and C.G. releases, verify and correct as necessary the following solutions:

- front tow release cord – connect at the upper hole of the lever
- C.G. release cord – connect at the lower hole of the lever
- Installation of turnbuckle on a free portion of the C.G. release's cord (adjacent to the release) is not allowed

2. LIST OF FACTORY NOS COVERED WITH THIS BULLETIN

This Bulletin concerns all MDM-1 FOX glider, S/N 238 and below

all variants: MDM-1 FOX, MDM-1P FOX-P

NOTE:

the concerned modification is introduced in every serially built FOX glider S/N 239 and above.

3. PROCEDURE

1. Carry out the modification of Bowden cable of C.G. release – by method described in INSTRUCTION, referred to under pos 1, item 5. ENCLOSURES
2. After finishing the modification – check correct operation of the release's actuation system.
3. Record the introduced modification in glider logbook.

NOTE:

For the sake of introducing changes to the primary system of flight control, the modification should be accomplished at certified Aircraft Repair Station or by an aircraft mechanic, licensed by Aviation Authority in a country of glider registration.

LABOUR DEMAND

Time required to complete the verification required : 6 hrs/1 person + curing

4. MASS (WEIGHT) AND BALANCE

This modification does not affect glider weight or balance.

5. ENCLOSURES

1. INSTRUCTION, MODIFICATION OF BOWDEN CABLE OF C.G. RELEASE ON MDM-1 FOX, 05.08.2018

6. FINAL CONCLUSIONS

The elements necessary for compliance with this Bulletin can be ordered at glider Producer, at a cost of Operator.

- THE END -

