	<h2>Modification bulletin</h2>	Doc.-No. 017B FES mini.17.001
		Revision 0
		Date: 2017-12-21
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Subject: Modification of FES Battery pack, Fire warning system and Manuals

Applicability: LAK-17B FES mini, all serial numbers

Urgency: Before next flight with FES batteries

Reason: This bulletin is prepared according the EASA issued Emergency Airworthiness Directive No. 2017-0167-E (06 September 2017).


The flight safety of the LAK-17B FES mini sailplanes with FES batteries is going to be improved by the following modifications and actions:

- 1) The FES batteries used in operation are going to be modified with:
 - a) a reinforced pack housing from flame retardant glassfibre prepreg FR308,
 - b) by performing a complete rebuilding of existing battery packs.
- 2) By introducing to production new battery packs according to GEN2 battery pack drawing v2.4.
- 3) By installing an additional independent from the FES-system fire warning system, which gives a warning of a possible fire when excessive temperatures are detected in the battery compartment.
- 4) By installing the safety valve for smoke venting on the batteries compartment cover.
- 5) By the following changes in the AFM and the AMM:
 - a) description of fire warning system,
 - b) information for the handling and transportation of the FES-batteries,
 - c) information for the FCU correct using in the flight and other small corrections.

Action:

1. Perform the Battery packs modification according the drawing "FES Battery pack GEN2 14S v2.4".
2. Modify the batteries compartment cover according the drawing LAK-17B FES 65 00 01 00 SB "The batteries compartment cover" requirements.
3. Install the battery compartment fire warning system according the drawing LAK-17B FES 79 01 00 00 SB "Fire warning system" or the drawing LAK-17B FES 79 01 00 00-01 SB "Fire warning system".

2017-12-21	Poci nai, Prienai, Lithuania	JSC "Sportin aviacija ir KO" Chief Designer _____/K. Juo as
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4. Revision of flight manual (rev.1).
Exchange or additional insertion of flight manual pages.
5. Revision of Maintenance Manual (rev.1).
Exchange or additional insertion of maintenance manual pages.

Material and Drawings:

The latest revision of "Flight MANUAL for the LAK-17B FES mini Powered Sailplane with Front Electric System";

The latest revision of "MAINTENANCE MANUAL for the Powered sailplane with Front Electric Self-launcher system LAK-17B FES mini";

FES BATTERY PACK GEN2 manual with integrated BMS (Battery Management System) Version 1.19;

FES FCU instrument manual Version 1.80, (for FCU software version 3.06);

FES BMS CONTROL MANUAL, Version 1.21, (for BMS control software version 1.31);

FES MOTOR MANUAL, Version 1.41, Type: FES-LAK-M100;

FES PROPELLER MANUAL, Version 1.0, Type: FES-LAK-P10-100.

Drawing FES Battery pack GEN2 14S assembly v2.4;

Drawing LAK-17B FES 65 00 01 00 SB "The batteries compartment cover";

Drawing LAK-17B FES 79 01 00 00 SB "Fire warning system";

Drawing LAK-17B FES 79 01 00 00-01 SB "Fire warning system";

Parts kit for the fire warning system LAK-17B FES;

Parts kit for the safety valve on the batteries compartment cover.

Weight and Balance:

Mass differences are so small, that a new weight and C.G. determination is not necessary.

Release to service:


Adding, exchanging the AFM and AMM pages can be done and released by the Pilot-Owner.

The Battery packs modification must be performed only by manufacturer.

Modification of the batteries compartment cover and installation of the batteries compartment fire warning system requires a release to service by certifying staff.

Approval:

The technical information contained in this Service Bulletin has been approved by EASA with approval number #_____.

2017-12-21	Poci nai, Prienai, Lithuania	JSC "Sportin aviacija ir KO" Chief Designer  /K. Juo as
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