	<h1>Service Bulletin</h1>	Document Number
		SB-100-006 LSA
		Issue: A.00
Pipistrel LSA s.r.l. Via Aquileia 75 34170 Gorizia, Italy, EU www.pipistrel.eu Phone: 0481 522000	Battery installation recommendations	Supersedes Doc. Number
		N/A
		Page 1 of 5
Aircraft make	Aircraft model	Affected serial numbers
PIPISTREL	Sinus, Virus, Virus SW and ALPHA trainer	See cover page
Date of issue	Date of effect	Date of required corrective action
27 June 2017	27 June 2017	N/A


Battery installation recommendations

- Category:** INFORMATION/RECOMMENDATION
- Subject:** Battery installation recommendations for all Sinus, Virus, Virus SW and ALPHA trainer aircraft, especially those affected by SB-100-004 LSA A02
- Applies to:** Alpha Trainer: all.
Sinus, Virus, Virus SW: all
- Time of Compliance:** N/A
- Reason:** See SB-100-004 LSA A02
- Actions:** Battery upgrade/replacement
- Documents:** ETX Lithium Battery User's Manual 111017_R
- Required Material:** N/A
- Mass and Balance:** Insignificant effect
- Required Records:** Installation of ETX 680 C to be logged in the aircraft's documentation.

Verified and approved under the
authority of DOA-No.: SLO.DOA.002

Head of Airworthiness

Design Organisation SLO.DOA.002

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Reason:

Since releasing SB-100-004 LSA A02, Pipistrel has determined that the **EarthX ETX 680 C LiFePO4** battery is a suitable replacement for the **Aliant LiFePO4** batteries found in its aircraft. The ETX 680 C's integrated battery management system protects it from over discharge, over charge and short circuit. It incorporates thermal protection and cell balancing. Lastly, it fits nicely into Pipistrel's battery holders/boxes for Aliant LiFePO4 batteries, making it a drop-in replacement.

NOTE: The contents of this SI DO NOT apply to aircraft with Aerovoltz LiFePO4 batteries or a tandem switch installed.


Any operators that wish to replace their single (aft or fore) battery OR restore dual battery configuration (dual aft or one aft/one fore) with the ETX 680 C, can do so following the *ETX Lithium Battery User's Manual 111017_R* and the accomplishment instructions found in this SI.

NOTE: The EarthX ETX 680 C is currently the only battery approved by Pipistrel d.o.o Ajdovščina for use in dual LiFePO4 battery configurations. All aircraft with dual LiFePO4 battery configurations that incorporate a battery OTHER THAN the EarthX ETX 680 C must adhere to SB-100-004 LSA A02.

Accomplishment instructions:

NOTE: Disable the batteries using the switch/pin found at the bottom of the switch panel before carrying out any of the work outlined below.

NOTE: Please refer to the ETX Lithium Battery User's Manual 111017_R for additional installation guidance/instructions.

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Replacing the aft battery/batteries


- a.) Remove Velco strap holding the battery in place.
- b.) Remove cable bolt caps.
- c.) Remove bolts, washers and cables.
- d.) Slide battery out of the box and replace it with ETX 680 C.
- e.) Fasten the positive cable (marked with red shrink sleeve or “+” sticker) to the positive terminal and the negative cable to the negative terminal (see Figure 1) using the fastening material that came with the ETX 680 C.
- f.) Torque according to the *ETX Lithium Battery User’s Manual 111017_R*.
- g.) Install cable bolt caps.
- h.) Fasten battery in place with Velcro strap.
- i.) Remove/install second aft battery in the same fashion if necessary.



Figure 1: Aft battery installation

Replacing the fore battery

- a.) Remove cable bolt caps.

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- b.) Remove bolts, washers and cables.
- c.) Grab the strap's loose end as seen in Figure 2. Tear it away from the base strap (i.e. it's bonded to it). Remove strap.
- d.) Slide battery out of brace and replace it with ETX 680 C.
- e.) Fasten/tighten in place with strap.
- f.) Apply a little glue to the loose end of the strap, so that it bonds to the base strap and doesn't hang freely.
- g.) Fasten the positive cable (marked with red shrink sleeve or "+" sticker) to the positive terminal and the negative cable to the negative terminal using the fastening material that came with the ETX 680 C.
- j.) Torque according to the *ETX Lithium Battery User's Manual 111017_R*.
- h.) Install cable bolt caps.



Figure 2: Fore battery installation – tearing away the strap's loose end

Installing the ETX's fault monitoring system

The ETX 680 C has a discrete output that can be used to monitor any battery faults that may occur. Please refer the *ETX Lithium Battery User's Manual 111017_R* for installation instructions.

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Personnel and site requirements: No special requirements, can be accomplished by owner, who is also a licensed pilot

Other publications: N/A

Manhour estimation: 0.5 – 1.5 hours (depends on configuration)

Additional Questions?

Contact Pipistrel Maintenance department via telephone: +386 5 364 38 83 or email: leon.brecelj@pipistrel.si

END OF SERVICE INFORMATION.