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TCDS EASA E.237

Engine type: Solo 8000 / 400 and Solo 8000 / 401

Subject: DCU software update to improve reliability of system

Applicability: All gliders fitted with the SOLO Electric propulsion system 8000 series.

Reason: The DCU includes a built-in **watchdog** function that triggers an automatic software reboot if specific internal checkpoints are not reached within a predefined timeframe.

This mechanism is designed to recover from software faults or freezes. However, a DCU reboot interrupts power to the Motor Controller, potentially causing an uncommand propulsion shutdown and leading to an unsafe condition.

To increase the maintainability, an error log via USB port will be introduced.

Compliance: Service Bulletin must be complied with before the next flight using the SOLO 8000 propulsion system, if using the RES propulsion system in case that the system is powered using an electronic switching device (i.e. Relais, Triac or similar).

Instructions: To mitigate this unsafe condition, a software upgrade must be performed on the propulsion system:

- 8000 / 400 : DCU SW ver 1.01
- 8000 / 401 : DCU SW ver 2.01

Actions: The following instructions should be followed to update the firmware of the DCU:

1. Request the Flash Tool from SOLO Aircraft Engines GmbH
2. Request the Firmware from SOLO Aircraft Engines GmbH
3. Request the Firmware Update documentation
4. Update Firmware using Solo supplied documentation

Material: Flashtool and Firmware version from SOLO
USB cable Type A/B

Datum / Date: 09.07.2025	Replaced Issue	Responsible Person M. Maul
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Notes: Work must be must be conducted and released by an appropriately approved organization or personnel.

Currently these are:

SOLO Aircraft Engines GmbH
 Industriestrasse 9
 D-71069 Sindelfingen

For Jonker aircrafts:

M&D Flugzeugbau GmbH & Co. KG
 Streeker Straße 5 b
 26446 Friedeburg

DG Aviation GmbH
 Otto Lilienthal Weg 2 / Am Flugplatz
 76646 Bruchsal

For Schempp-Hirth aircrafts:

Schempp-Hirth Flugzeug-Vertriebs GmbH
 Kребенstraße 25
 73230 Kirchheim unter Teck

Schempp-Hirth Service GmbH
 Nabern/Teck Airport, Neue Str. 109
 73230 Kirchheim unter Teck

The following people are approved for performing maintenance:

Leo Benetti, USA

Marcus Maul, Germany

Sven Koch, Germany

Nils Salberg, Germany

Attention!

This system contains EMI-sensitive components and high-voltage power lines up to 400 V DC. Accidental contact with these lines can result in serious injury or damage.

Before performing any work, ensure that appropriate safety precautions are in place to protect personnel and equipment from exposure to high voltage and electromagnetic interference.

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Declaration of Alteration

Hinweis bitte senden Sie den unteren Abschnitt an Solo Aircraft Engines GmbH zurück, sofern die TM erstmal oder zum wiederholten male durchgeführt wird.
 Note please submit the record below to Solo Aircraft Engines GmbH if the SB is being carried out for the first time or for the repeated time.

----- SNIP -----

I hereby declare that the aircraft owned by

Name: _____

Address: _____

City / Town: _____

Country: _____

Aircraft SN: _____

AC Callsign: _____

has been altered in accordance with this instruction on

Date : _____

DCU update performed ☐

LOG send to SOLO ☐

Name of Certifying Staff/Owner : _____

Signature: _____

License No: _____

Send this record to:

Solo Aircraft Engines GmbH
 Industriestrasse 9
 D-71069 Sindelfingen (Germany)
 E-Mail: aircraft@solo-germany.com

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