EASA	EMERGENCY AIRWORTHINESS DIRECTIVE
	AD No.: 2014-0182-E **Date: 01 August 2014** Note: This Emergency Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.

This AD is issued in accordance with EU 748/2012, Part 21.A.3B. In accordance with EC 2042/2003 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].

Design Approval Holder's Name:	**Type/Model designation(s):**
LANGE FLUGZEUGBAU GmbH	E1 Antares powered sailplanes

TCDS Number:	EASA.A.092
Foreign AD:	Not applicable
Supersedure:	None

ATA 24	**Electric Power – Capacitor Board – Modification**
Manufacturer(s):	Lange Flugzeugbau GmbH (Lange Aviation GmbH)
Applicability:	E1 Antares powered sailplanes, manufacturer serial numbers from 01 through 69E52 inclusive, 900 and 901.
Reason:	Failures of Direct Current (DC)/DC converters were reported to Lange Aviation GmbH. The DC/DC converter is part of the power electronics of the engine. Subsequent investigation determined that the failure of the DC/DC converter was induced by a dynamic capacitive effect between an electrical wire, connecting the DC/DC converter and the key switch, and adjacently located parts connected with an electrical grounding. As a result of the capacitive effect, the DC/DC converter input rating limit was exceeded. This condition, if not corrected, could lead to loss of electrical supply of instruments and the engine, possibly resulting in reduced control of the sailplane. To correct this potential unsafe condition, Lange Aviation GmbH issued Technical Note (TN) Nr. 904-4 to provide instructions for installation of a Protective Circuit Breaker (PCB). For the reasons described above, this AD requires modification of the Capacitor Board by installing a capacitor PCB.
Effective Date:	05 August 2014

Required Action(s) and Compliance Time(s):	Required as indicated, unless accomplished previously: Before next flight after the effective date of this AD modify the Capacitor Board by installing a capacitor PCB in accordance with the instructions of Lange Aviation GmbH TN Nr. 904-4.
Ref. Publications:	Lange Aviation GmbH Technical Note Nr. 904-4: Retrofit of capacitor-PCB, original issue dated 20 March 2014. The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.
Remarks:	1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 2. The results of the safety assessment have indicated the need for immediate publication and notification, without the full public consultation process. 3. Enquiries regarding this AD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail: ADs@easa.europa.eu. 4. For any question concerning the technical content of the requirements in this AD, please contact: Lange Aviation GmbH, Brüsseler Strasse 30, D-66482 Zweibrücken Tel.: +49 6332 96270 e-mail: axel.lange@lange-aviation.com.