

2009-24-16 DG Flugzeugbau GmbH: Amendment 39-16110; Docket No. FAA- 2009-1103; Directorate Identifier 2009-CE-053-AD.

Effective Date

(a) This airworthiness directive (AD) becomes effective December 21, 2009.

Affected ADs

(b) None.

Applicability

(c) This AD applies to Models DG-500MB, DG-808C, and DG-800B gliders, all serial numbers, certificated in any category.

Subject

(d) Air Transport Association of America (ATA) Code 80: Starting.

Reason

(e) The mandatory continuing airworthiness information (MCAI) states:

Zinc-coated starter ring gears installed on Solo 2625 01 and 2625 02 engines have shown to be prone to cracking. For that reason, AD 2009-0169-E has been published in July 2009.

From that date, collected in-service data have been revealed that painted starter ring gears with lightening holes are also subject to cracks. The reason for these cracks is still unknown at the present time.

As a consequence, Airworthiness Directive (AD) 2009-0225 dated 22 October 2009 had been published to mandate repetitive inspections of zinc-coated starter ring gears as well as painted starter ring gears with lightening holes, and their replacement when cracks are found.

This AD retains the requirements of AD 2009-0225-E which is superseded, and extends the applicability to model DG-808C sailplanes that were inadvertently omitted in the applicability of AD 2009-0225-E. On the other hand, the required actions remain unchanged.

Actions and Compliance

(f) Unless already done, do the following actions.

(1) Before further flight after December 21, 2009 (the effective date of this AD), and repetitively thereafter before every flight, inspect the installed version of the starter ring gear for cracks following paragraph 2 of the Instructions section of DG Flugzeugbau Technical note No. 800/36, 843/30, Revision 1, dated September 16, 2009.

(2) If, during the inspection required in paragraph (f)(1) of this AD, any crack is found, before further engine operation, replace the starter ring gear following paragraph 3 of the Instructions section of DG Flugzeugbau Technical note No. 800/36, 843/30, Revision 1, dated September 16, 2009.

(3) Within 90 days after December 21, 2009 (the effective date of this AD), replace the starter ring gear following paragraph 3 of the Instructions section of DG Flugzeugbau Technical note No. 800/ 36, 843/30, Revision 1, dated September 16, 2009. Replacement of the starter ring gear following paragraph 3 of the Instructions section of DG Flugzeugbau Technical note No. 800/36, 843/30, Revision 1, dated September 16, 2009, terminates the repetitive inspection requirement in paragraph (f)(1) of this AD.

FAA AD Differences

Note: This AD differs from the MCAI and/or service information as follows:

Although the MCAI or service information provides for a terminating action as an option, paragraph (f)(3) of this AD requires that you perform the terminating action within 90 days after December 21, 2009 (the effective date of this AD). This is consistent with paragraph 125 of the FAA AD Manual, FAA-IR-M-8040.1B (FAA-AIR-M-8040.1), which states: "The FAA has determined that long-term continued operational safety will be better assured by design changes that remove the source of the problem, rather than by repetitive inspections or other special procedures."

Other FAA AD Provisions

(g) The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, Standards Office, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. Send information to ATTN: Greg Davison, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone: (816) 329-4130; fax: (816) 329-4090. Before using any approved AMOC on any airplane to which the AMOC applies, notify your appropriate principal inspector (PI) in the FAA Flight Standards District Office (FSDO), or lacking a PI, your local FSDO.

(2) Airworthy Product: For any requirement in this AD to obtain corrective actions from a manufacturer or other source, use these actions if they are FAA-approved. Corrective actions are considered FAA-approved if they are approved by the State of Design Authority (or their delegated agent). You are required to assure the product is airworthy before it is returned to service.

(3) Reporting Requirements: For any reporting requirement in this AD, under the provisions of the Paperwork Reduction Act (44 U.S.C. 3501 et seq.), the Office of Management and Budget (OMB) has approved the information collection requirements and has assigned OMB Control Number 2120-0056.

Related Information

(h) Refer to MCAI EASA Emergency AD No.: 2009-0239-E, dated November 3, 2009; and DG Flugzeugbau Technical note No. 800/36, 843/ 30, Revision 1, dated September 16, 2009, for related information.

Material Incorporated by Reference

(i) You must use DG Flugzeugbau Technical note No. 800/36, 843/ 30, Revision 1, dated September 16, 2009, to do the actions required by this AD, unless the AD specifies otherwise.

(1) The Director of the Federal Register approved the incorporation by reference of this service information under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) For service information identified in this AD, contact DG Flugzeugbau GmbH, Otto-Lilienthal-Weg 2, 76646 Bruchsal, Federal Republic of Germany; telephone: + 49 (0) 7251 3020140; Fax: +49 (0) 7251 3020149; Internet: <http://www.dg-flugzeugbau.de/index-e.html>; E-Mail: dirks@dg-flugzeugbau.de.

(3) You may review copies of the service information incorporated by reference for this AD at the FAA, Central Region, Office of the Regional Counsel, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the Central Region, call (816) 329-3768.

(4) You may also review copies of the service information incorporated by reference for this AD at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call (202) 741-6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.