

2011-18-19 Austro Engine GmbH: Amendment 39-16801; Docket No. FAA-2010-1055; Directorate Identifier 2010-NE-35-AD.

Effective Date

(a) This airworthiness directive (AD) is effective October 6, 2011.

Affected ADs

(b) This AD supersedes AD 2010-23-09, Amendment 39-16498 (75 FR 68179, November 5, 2010).

Applicability

(c) This AD applies to Austro Engine GmbH model E4 diesel piston engines, with high-pressure (HP) fuel pump, part number (P/N) E4A-30-100-000, installed.

Unsafe Condition

(d) This AD was prompted by Austro Engine GmbH introducing a new P/N fuel pump as mandatory terminating action to the repetitive inspections required by AD 2010-23-09, Amendment 39-16498 (75 FR 68179, November 5, 2010). We are issuing this AD to prevent engine power loss or in-flight shutdown, which could result in loss of control of the airplane.

Compliance

(e) Comply with this AD within the compliance times specified, unless already done.

(1) Inspect the fuel pressure supply for excessive oscillations using the inspection schedule in Table 1 of this AD.

Table 1–Inspection Schedule

Accumulated Time-Since-New (TSN) or Time Since Last Inspection (TSLI):	Compliance time:
45 flight hours or more	Within 10 flight hours after the effective date of this AD.
Fewer than 45 flight hours	Before 55 flight hours TSN or TSLI.
Repetitive inspections	Before 55 flight hours TSLI.

(2) Use Austro Engine GmbH Work Instruction No. WI-MSB-E4-009, dated October 7, 2010, to do the inspections.

(3) Replace the HP fuel pump before further flight with a new HP fuel pump, P/N E4A-30-200-000, if the oscillations exceed 300mV (750hPa).

Mandatory Terminating Action

(4) As mandatory terminating action to the repetitive inspections, within 120 flight hours after the effective date of this AD, replace the HP fuel pump, P/N E4A-30-100-000, with a HP fuel pump, P/N E4A-30-200-000. Austro Engine GmbH Mandatory Service Bulletin (MSB) No. MSB-E4-009/2 contains guidance on replacing the HP fuel pump.

Installation Prohibitions

(f) After the effective date of this AD, do not install any HP fuel pump P/N E4A-30-100-000, onto any engine.

(g) After the effective date of this AD, do not install any engine equipped with HP fuel pump P/N E4A-30-100-000, onto any airplane.

Alternative Methods of Compliance (AMOCs)

(h) The Manager, Engine Certification Office, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19.

Related Information

(i) Refer to MCAI European Aviation Safety Agency Airworthiness Directive 2011-0039, dated March 8, 2011, and Austro Engine GmbH MSB No. MSB-E4-009/2, dated March 4, 2011, for related information.

(j) For more information about this AD, contact James Lawrence, Aerospace Engineer, Engine Certification Office, FAA, Engine & Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803; phone: 781-238-7176; fax: 781-238-7199; e-mail: james.lawrence@faa.gov.

Material Incorporated by Reference

(k) You must use Austro Engine GmbH Work Instruction No. WI-MSB-E4-009, dated October 7, 2010, to do the inspections required by this AD. The Director of the Federal Register approved the incorporation by reference under 5 U.S.C. 552(a) and 1 CFR part 51, as of November 22, 2010.

(l) For service information identified in this AD, contact Austro Engine GmbH, Rudolf-Diesel-Strasse 11, A-2700 Weiner Neustadt, Austria, phone: +43 2622 23000; fax: +43 2622 23000-2711, or go to: <http://www.austroengine.at>. For information on the availability of this material at the FAA, call 781-238-7125.

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