EASA	AIRWORTHINESS DIRECTIVE
	AD No.: 2013-0213R1 **Date: 27 February 2014** Note: This 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):**
AUSTRO ENGINE GmbH	E4 engines

TCDS Number:	EASA.E.200
Foreign AD:	Not applicable
Revision:	This AD revises EASA AD 2013-0213 dated 13 September 2013, which superseded EASA AD 2013-0025R1 dated 30 April 2013.

ATA 72	**Engine – Waste Gate Controller – Replacement**
Manufacturer(s):	Austro Engine GmbH
Applicability:	Model E4 engines, all serial numbers. These engines are known to be installed on, but not limited to, Diamond Aircraft Industries DA 40 NG and DA 42 NG aeroplanes.
Reason:	Several power loss events have been reported on Austro E4 engines, due to fracture of the waste gate controller lever. This condition, if not corrected, could lead to further cases of power loss events, possibly resulting in forced landing, damage to the aeroplane and injury to occupants. To address this potential unsafe condition, Austro Engine introduced a waste gate controller of improved design, Part Number (P/N) E4A-41-120-000 revision (Rev.) 070, or higher. Consequently, EASA issued AD 2013-0025 (later revised) to require replacement of all previous revisions of waste gate controllers having P/N E4A-41-120-000 and P/N E4B-41-120-000, with improved design units having P/N E4A-41-120-000 Rev.070, or E4C-41-120-000 Rev. 000, units or higher. Since AD 2013-0025R1 was issued, based on further in-service failure occurrences, Austro Engine GmbH established that waste gate controllers P/N E4A-41-120-000 Rev. 060 and P/N E4C-41-120-000 Rev. 010 are no longer eligible for installation, and Austro Engine Mandatory Service Bulletin (MSB) MSB-E4-007 was revised accordingly. For the reason described above, this AD retains the requirements of EASA AD

	2013-0025R1, which is superseded, but expands the replacement actions to include those additional units. This AD has been revised to correct Table 1, where a combination of engine configuration and P/N waste gate controller was inadvertently omitted.
Effective Date:	Revision 1: 27 February 2014 Original issue: 27 September 2013
Required Action(s) and Compliance Time(s):	Required as indicated, unless accomplished previously: (1) Within 110 flight hours, or during the next schedule engine maintenance, or within 3 months, whichever occurs first after 27 September 2013 [the effective date of the original issue of this AD], replace the waste gate controller in accordance with the instructions of Austro Engine MSB-E4-007 Revision 5 (or later revision). (2) From 27 September 2013 [the effective date of the original issue of this AD], do not install on any engine a waste gate controller with a P/N as listed in Table 1 of this AD. Table 1 – Waste Gate Controllers not eligible for Installation Engine configurations: E4-A and E4-B — P/N: E4A-41-120-000 Rev. 060 and lower Engine configurations: E4-B — P/N: E4B-41-120-000 Rev. 010 and lower
Ref. Publications:	Austro Engine MSB-E4-007 Revision 5 dated 04 September 2013, or current Revision 6 dated 18 September 2013. 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. Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication. 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: Austro Engine GmbH, Rudolf-Diesel-Straße 11, A-2700 Wiener Neustadt, Austria Telephone: +43 2622 23000 2525 Fax: +43 2622 23000-2711 E-mail: service@austroengine.at. The referenced publication can be downloaded directly from the Austro Engine GmbH Service Bulletin webpage.