

# SERVICE INFORMATION

## NO. SI 42NG-046

**NOTE:** SI's are used only:  
1) To distribute information from DAI to our customers.  
2) To distribute applicable information/documents from our suppliers to our customers with additional information.  
Typically there is no revision service for SI's. Each new information or change of that will be sent along with a new SI.

### I. TECHNICAL DETAILS

#### 1.1 Airplanes affected:

All DA 42 NG and DA 42 M-NG airplanes

#### 1.2 Subject:

EASA Airworthiness Directive No. 2013-0025  
ATA-Code: 72-00

#### 1.3 Reason:

EASA has issued Airworthiness Directive No. 2013-0025 mandating the replacement of certain Waste Gate Controller part numbers with an improved design at its E4 engines.


#### 1.4 Information:

For detailed technical information refer to EASA Airworthiness Directive No. 2013-0025 which is applicable without any further additions or restrictions.

### II. OTHERS

EASA Airworthiness Directive No. 2013-0025 is attached to this Service Information.

In case of doubt contact Diamond Aircraft Industries GmbH.

<b>EASA</b>	<b>AIRWORTHINESS DIRECTIVE</b>
	<p><b>AD No.: 2013-0025</b></p> <p><b>Date: 06 February 2013</b></p> <p>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.</p>
<p>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].</p>	
<p><b>Design Approval Holder's Name:</b> AUSTRO ENGINE GmbH</p>	<p><b>Type/Model designation(s):</b> E4 engines</p>
TCDS Number:	EASA.E.200
Foreign AD:	Not applicable
Supersedure:	None
<b>ATA 72</b>	<b>Engine – Waste Gate Controller – Replacement</b>
Manufacturer(s):	Austro Engine GmbH
Applicability:	<p>Model E4 engines, all serial numbers.</p> <p>These engines are known to be installed on, but not limited to, Diamond Aircraft Industries DA 40 NG and DA 42 NG aeroplanes.</p>
Reason:	<p>Several power loss events have been reported on Austro E4 engines, due to fracture of the waste gate controller lever.</p> <p>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.</p> <p>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.</p> <p>For the reasons described above, this AD requires replacement of all previous revisions of P/N E4A-41-120-000 and P/N E4B-41-120-000 waste gate controllers with improved design P/N E4A-41-120-000 Rev.070 units.</p>
Effective Date:	20 February 2013

<p>Required Action(s) and Compliance Time(s):</p>	<p>Required as indicated, unless accomplished previously:</p> <ol style="list-style-type: none"> <li>(1) Within 110 flight hours, or during the next schedule engine maintenance, or within 3 months, whichever occurs first after the effective date of this AD, install Waste Gate Controller P/N E4A-41-120-000 Rev. 070, or higher, in accordance with the instructions of Austro Engine Mandatory Service Bulletin (MSB) MSB-E4-007 Revision 3.</li> <li>(2) From the effective date of this AD, do not install a waste gate controller on any engine, unless it has been determined that the part is the improved design, P/N E4A-41-120-000 Rev. 070, or higher.</li> </ol>
<p>Ref. Publications:</p>	<p>Austro Engine MSB-E4-007 Revision 3 dated 28 November 2012.</p> <p>The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.</p>
<p>Remarks:</p>	<ol style="list-style-type: none"> <li>1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.</li> <li>2. This AD was posted on 08 January 2013 as PAD 13-004 for consultation until 05 February 2013. No comments were received during the consultation period.</li> <li>3. Enquiries regarding this AD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail: <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a>.</li> <li>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: <a href="mailto:service@austroengine.at">service@austroengine.at</a>.</li> </ol> <p>The referenced publication can be downloaded directly from the Austro Engine GmbH <a href="#">Service Bulletin</a> webpage.</p>