


EASA	AIRWORTHINESS DIRECTIVE
	<p>AD No.: 2010-0133</p> <p>Date: 29 June 2010</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 EC 1702/2003, Part 21A.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>Type Approval Holder's Name :</p> <p>Turboméca</p>	<p>Type/Model designation(s) :</p> <p>TM 333 series turboshaft engines</p>
<p>TCDS Number : EASA.E.030</p>	
<p>Foreign AD : Not applicable</p>	
<p>Supersedure : None</p>	
ATA 73	Engine – Fuel and Control – Digital Engine Control Unit – Replacement
<p>Manufacturer(s): Turboméca S.A.</p>	
Applicability:	<p>TM 333 2B2 turboshaft engines, if equipped with Digital Engine Control Unit (DECU) serial numbers listed in Appendix 1 of Turboméca Mandatory Service Bulletin (MSB) A333 73 0810 version A.</p> <p>These engines are known to be installed on, but not limited to, Hindustan Aeronautics Limited "Dhruv" (ALH) helicopters.</p>
Reason:	<p>Several cases of automatic fuel control system loss, all caused by the same type of printed circuit degradation, have been observed on the Digital Engine Control Unit (DECU) of TM 333 2B2 and on other Turboméca engines equipped with similar DECUs.</p> <p>This type of printed circuit degradation can cause an uncommanded in-flight shut down, a free turbine overspeed protection loss or a non-availability of maximum power. In case of free turbine overspeed on TM 333 2B2, this can lead to the non containment of high energy debris due to free turbine disc burst.</p> <p>TM 333 2B2 DECUs listed in Turboméca Mandatory Service Bulletin (MSB) A333 73 0810 version A are likely to be affected by the same type of printed circuits degradation. To address this unsafe condition, this AD requires replacing these DECUs with serviceable DECUs.</p>

Effective Date:	13 July 2010
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <p>(1) Within 50 engine hours after the effective date of this AD, replace any TM 333 2B2 DECU having a serial number mentioned in Appendix 1 of Turboméca MSB A333 73 0810 version A with a serviceable DECU, new or repaired, in accordance with the instructions of Turboméca MSB A333 73 0810 version A.</p> <p>(2) After the effective date of this AD, do not install a DECU on a TM 333 2B2 engine unless in compliance with the requirements of this AD.</p>
Ref. Publications:	<p>Turboméca Mandatory Service Bulletin (MSB) A333 73 0810 version A, dated 31 May 2010.</p> <p>The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.</p>
Remarks :	<ol style="list-style-type: none"> 1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 2. The required actions and the risk allowance have granted the issuance of a Final AD with Request for Comments, postponing the public consultation process after publication. 3. Enquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail: ADs@easa.europa.eu. 4. For any question concerning the technical content of the requirements in this AD, please contact: Turboméca Operator Support & Sales TM 333 40220 Tarnos – France Phone: +33 (0)5 59 74 44 95; Fax: +33 (0)5 59 74 45 16 or contact your nearest technical representative at www.turbomeca-support.com