


EASA	PROPOSED AIRWORTHINESS DIRECTIVE
	<p>PAD No : 08-037</p> <p>Date: 20 March 2008</p>
No person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive unless otherwise agreed with the Authority of the State of Registry.	
Type Approval Holder's Name : TURBOMECA	Type/Model designation(s) : ARRIEL 2B/2B1/2B1A turboshaft engines
TCDS Number: EASA E.001	
Foreign AD: Not applicable	
Supersedure: None	
ATA 73	Engine Fuel & Control – Hydro Mechanical Unit (HMU) – Low Fuel Pressure Switch – Inspection/Replacement
Manufacturer(s):	Turboméca S.A.
Applicability:	ARRIEL 2B, 2B1, 2B1A turboshaft engines These engines are known to be installed on, but not limited to, the following helicopters: Eurocopter AS 350 B3 and EC 130 B4 helicopters.
Reason:	<p>Several cases of loss of internal components from the Hydro Mechanical Unit (HMU) low fuel pressure switch Hydra-Electric P/N 9 550 17 956 0 into the fuel system have been reported on Arriel 2 engines.</p> <p>The loss of internal components from the low fuel pressure switch into the fuel system may lead to a rupture of the HP-LP pumps drive shaft shear pin, and thus to a possible uncommanded In-Flight Shut-Down (IFSD). On a single-engine helicopter, an uncommanded IFSD results in an emergency autorotation landing and in certain conditions may lead to an accident.</p> <p>The evaluation of this condition leads to require the following actions for the HMUs installed on Arriel 2 single-engine applications in order to:</p> <ul style="list-style-type: none"> ▪ verify the part number of the low fuel pressure switch; ▪ if applicable, replace the low fuel pressure switch P/N 9 550 17 956 0 by an IN-LHC low fuel pressure switch P/N 9 550 17 199 0 or P/N 9 550 17 913 0; ▪ in case a Hydra-Electric switch P/N 9 550 17 956 0 is installed or may have been installed on the HMU, verify that no parts are found in the chamber of the HMU body where the base of the low fuel pressure switch has been installed.

Effective Date:	[TBD: 14 days after final AD issue date]
Compliance:	<p>Required as indicated, unless accomplished previously:</p> <p>No later than 30 September 2009, implement a one-time inspection of the HMU as per paragraph 2 of the Turboméca Mandatory Service Bulletin (MSB) 292 73 2826, dated 13 March 2008 to identify the low fuel pressure switch installed on adjusted HMU.</p> <p>1. If a Hydra-Electric low fuel pressure switch P/N 9 550 17 956 0 is installed:</p> <p>1.1 Inspect low fuel pressure switch and chamber of the HMU body.</p> <p>1.1.1 If any parts are missing from the low fuel pressure switch or are found in the HMU chamber, replace the HMU by a new or overhauled HMU equipped with an IN-LHC low fuel pressure switch.</p> <p>1.1.2 If not, replace only the low fuel pressure switch by an IN-LHC low fuel pressure switch.</p> <p>2. If an IN-LHC low fuel pressure switch P/N 9 550 17 199 0 or P/N 9 550 17 913 0 is installed:</p> <p>2.1 If the low fuel pressure switch has been installed since new, repair or overhaul, no further action is required.</p> <p>2.2 If not:</p> <p>2.2.1 Inspect the chamber of the HMU body.</p> <p>2.2.2 If any parts are found in the HMU chamber, replace the HMU by a new or overhauled HMU equipped with an IN-LHC low fuel pressure switch.</p>
Ref. Publications:	<p>Turboméca Mandatory Service Bulletin 292 73 2826 – Original Issue, dated 13 March 2008.</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"> If requested and appropriately substantiated, EASA can accept Alternative Methods of Compliance for this AD. The closing date for comments is 17 April 2008. Enquiries regarding this AD should be referred to the AD Focal Point - Certification Directorate, EASA. E-mail: ADs@easa.europa.eu . For any question concerning the technical content of the requirements in this AD, please contact: Turboméca S.A. ARRIEL 2 Customer Support 40220 TARNOS, FRANCE Fax: +33 5 59 74 45 15, or your usual or nearest TURBOMECA technical representative (refer to http://www.turbomeca-support.com)