

EASA	AIRWORTHINESS DIRECTIVE
	AD No.: 2015-0175
	Date: 24 August 2015 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 EU 1321/2014 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 [EU 1321/2014 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: TURBOMECA	Type/Model designation(s): ARRIEL 1E2 engines
TCDS Number:	EASA.E.073
Foreign AD:	Not applicable
Supersedure:	None
ATA 77	Engine Indicating – Tachometer Boxes – Replacement
Manufacturer(s):	Turbomeca
Applicability:	ARRIEL 1E2 engines, all serial numbers. These engines are known to be installed on, but not limited to, Airbus Helicopters Deutschland (formerly Eurocopter Deutschland) MBB-BK117-C1 and MBB-BK117-C2 helicopters.
Reason:	There have been reports of Arriel 1E2 engines having experienced an uncommanded in-flight shut-down (IFSD) due to an untimely activation of the tachometer box shut-off system which was activated by the power turbine monitoring function of the tachometer box. This condition, if not corrected, could potentially lead to further cases of IFSD, possibly resulting in a forced landing. To address this potential unsafe condition, Turbomeca developed modifications (TU369 and TU371) of the tachometer box consisting in the power turbine monitoring function inhibition. In addition, Turbomeca issued Mandatory Service Bulletin (MSB) 292 77 0844 version B to provide instructions for the replacement of the affected tachometer box. For the reasons described above, this AD requires replacement of the affected tachometer boxes.
Effective Date:	07 September 2015

Required Action(s) and Compliance Time(s):	Required as indicated, unless accomplished previously: Note 1: For the purpose of this AD, an affected engine is an engine installed on position #1 (left hand engine position) and is connected to an affected tachometer box with a Part Number (P/N) and a Serial Number (S/N) listed in Table 1 of this AD. (1) Within 1 600 flight hours after the effective date of this AD, replace the affected tachometer box (as listed by P/N and S/N in Table 1 of this AD) connected to an affected engine with a serviceable unit, in accordance with the instructions of Turbomeca MSB 292 77 0844 version B. Note 2: For the purpose of this AD, a serviceable tachometer box is a unit that is not an affected tachometer box as identified in Table 1 of this AD. Table 1 – Affected tachometer boxes <table border="1" data-bbox="635 633 1315 952"> <thead> <tr> <th>P/N</th><th>S/N</th></tr> </thead> <tbody> <tr> <td>9580116170</td><td rowspan="4">All</td></tr> <tr> <td>9580116260</td></tr> <tr> <td>9580116900</td></tr> <tr> <td>9580117110</td></tr> <tr> <td>9580117550</td><td>All, except S/N 1500EL (see Note 3 of this AD) and higher</td></tr> </tbody> </table> Note 3: P/N 9580117550 with S/N suffix different than “EL” or without suffix is affected by this AD (example: S/N 6091GA, S/N 1713). (2) Replacement of an affected tachometer box, before the effective date of this AD in accordance with the instructions of Turbomeca MSB 292 77 0844 version A, is acceptable to comply with the requirements of paragraph (1) of this AD. (3) From the effective date of this AD, it is allowed to install a tachometer box on an affected engine, provided this unit is a serviceable part as defined in Note 2 of this AD.	P/N	S/N	9580116170	All	9580116260	9580116900	9580117110	9580117550	All, except S/N 1500EL (see Note 3 of this AD) and higher
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Ref. Publications:	Turbomeca MSB 292 77 0844 version A dated 04 March 2015 or version B dated 06 July 2015. The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.									
Remarks:	- If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. - This AD was posted on 23 July 2015 as PAD 15-096 for consultation until 20 August 2015. No comments were received during the consultation period. - Enquiries regarding this AD should be referred to the Safety Information Section, Certification Directorate, EASA. E-mail: ADs@easa.europa.eu. - For any question concerning the technical content of the requirements in this AD, please contact: Turbomeca, ARRIEL 1 Customer Support, 40220 Tarnos, France, Fax: +33 5 59 74 45 15, or contact your usual or nearest Turboméca technical representative at www.turbomeca-support.com									