

EASA	AIRWORTHINESS DIRECTIVE
	<p>AD No.: 2011-0237</p> <p>Date: 14 December 2011</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 Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive 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>EUROCOPTER</p>	<p>Type/Model designation(s) :</p> <p>AS 350 helicopters</p>
<p>TCDS Number :</p>	<p>EASA.R.008</p>
<p>Foreign AD :</p>	<p>Not Applicable</p>
<p>Supersedure:</p>	<p>This AD supersedes EASA AD 2006-0094 dated 21 April 2006.</p>
<p>ATA 76</p>	<p>Engine Controls – Twist Grip Assembly – Adjustment / Functional Check / Replacement</p>
<p>Manufacturer(s):</p>	<p>Eurocopter</p>
<p>Applicability:</p>	<p>AS 350 B3 helicopters, all serial numbers, if equipped with the ARRIEL 2B engine.</p>
<p>Reason:</p>	<p>In 2006, a case was reported concerning an AS 350 B3 helicopter where, during an autorotation training procedure, the engine remained at idle rating although the twist grip had been turned back to the "FLIGHT" position. Analysis revealed that the cause of this occurrence was jamming of the "forced idle" microswitch (called microswitch in the text below) pin in the pushed-in position.</p> <p>This condition, if not corrected, can occur when the pilot turns the twist grip back to the "FLIGHT" position on completion of autorotation training, or when the pilot turns the grip in the low flow rate direction during training for governor failure.</p> <p>To address this potential unsafe condition, EASA issued AD 2006-0094, to require repetitive functional tests of the microswitch. The AD also established a life limit of 550 flight hours (FH) for the microswitch.</p> <p>Since that AD was issued, two new cases have been reported, one related to a microswitch jam (at 412 FH, i.e. below the life as defined in EASA AD 2006-0094) and another related to an incorrectly routed harness.</p> <p>For the reasons described above, this new AD retains the requirements of EASA AD 2006-0094, which is superseded, reduces the microswitch life limit to</p>

	330 FH and requires an additional check of the collective lever for free travel, each time the microswitch is replaced.						
Effective Date:	28 December 2011						
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <ol style="list-style-type: none"> (1) Within 110 FH after 05 May 2006 [effective date of EASA AD 2006-0094], adjust the microswitch and check it for correct operation (functional test), in accordance with the instructions of paragraphs 2.B.2 and 2.B.3 of Eurocopter AS 350 Alert Service Bulletin (ASB) No. 05.00.49. (2) Thereafter, at intervals not exceeding 110 FH, accomplish a functional test of the microswitch, in accordance with the instructions of paragraph 2.B.3 of Eurocopter AS 350 ASB No. 05.00.49. (3) Within the compliance time specified in Table 1 of this AD, as applicable, replace the microswitch, in accordance with the instructions of paragraph 2.B.4 of Eurocopter ASB AS 350 No. 05.00.49 Revision 2. <p style="text-align: center;">Table 1 – Life Limit (Replacement)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">FH accumulated by the microswitch since first installation on a helicopter, on the effective date of this AD</th> <th style="text-align: center;">Compliance time</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Less than 275 FH</td> <td style="text-align: center;">Before accumulating 330 FH</td> </tr> <tr> <td style="text-align: center;">275 FH or more</td> <td style="text-align: center;">within 55 FH after the effective date of this AD, without exceeding 550 FH (microswitch FH)</td> </tr> </tbody> </table> <ol style="list-style-type: none"> (4) Thereafter, at intervals not exceeding 330 FH, replace the microswitch in accordance with the instructions of paragraph 2.B.4 of Eurocopter AS 350 ASB No. 05.00.49 Revision 2. (5) Replacement of the microswitch on a helicopter, as required by paragraph (3) or (4) of this AD, does not constitute terminating action for the repetitive functional tests as required by paragraph (2) of this AD for that helicopter. 	FH accumulated by the microswitch since first installation on a helicopter, on the effective date of this AD	Compliance time	Less than 275 FH	Before accumulating 330 FH	275 FH or more	within 55 FH after the effective date of this AD, without exceeding 550 FH (microswitch FH)
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Less than 275 FH	Before accumulating 330 FH						
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Ref. Publications:	<p>Eurocopter AS 350 ASB No. 05.00.49. Revision 2 dated 06 October 2011.</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. This AD was posted on 24 October 2011 as PAD 11-109 for consultation until 21 November 2011. The Comment Response Document can be found at http://ad.easa.europa.eu/. 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: EUROCOPTER (STDI) - Aéroport de Marseille Provence 13725 Marignane Cedex, France. Telephone +33 (0) 4 42 85 97 97, Fax +33 (0) 4 42 85 99 66 E-mail: Directive.technical-support@eurocopter.com. 						