


EASA	AIRWORTHINESS DIRECTIVE	
	<p style="text-align: center;">AD No.: 2007-0129</p> <p style="text-align: center;">Date: 10 May 2007</p>	
<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.</p>		
<p>Type Approval Holder's Name:</p> <p>EUROCOPTER</p>	<p>Type/Model designation(s):</p> <p>SA 365 N and AS 365 N helicopters</p>	
<p>TCDS Number: France No.159</p>		
<p>Foreign AD: Not applicable</p>		
<p>Supersedes: This AD supersedes DGAC France AD (CN) 1997-093-041 R2</p>		
<p>ATA 05, 63</p>	<p>Main Rotor Drive – Main Gearbox (MGB) Suspension Diagonal Cross-Member – Check / Replacement</p>	
<p>Manufacturer(s):</p>	<p>EUROCOPTER (Formerly EUROCOPTER FRANCE, AEROSPATIALE).</p>	
<p>Applicability:</p>	<p>SA 365 N, SA 365 N1 and AS 365 N2 helicopters, all serial numbers, equipped with MGB suspension diagonal cross-members, Part Number (P/N) 365A38-3023-20, -21, -22, -23 and -24.</p>	
<p>Reason:</p>	<p>Following the discovery of a crack in a diagonal cross-member, the DGAC issued Airworthiness Directive (AD) No. 1997-093-041. After receiving two further reports of failure of the diagonal cross-member, DGAC France revised AD 1997-093-041 to reduce both the number of operating cycles until the initial check, and the checking intervals for this area.</p> <p>The findings of the analysis of a further case of complete failure of a diagonal cross-member have revealed possible damage to the attachment of the torque stops (installed on the structure) in the event of the (complete) failure of the two portions of the diagonal cross-member. Such damage can lead to the loss of both the tail rotor drive shaft and the tail rotor.</p> <p>Consequently, EASA issues this Airworthiness Directive to supersede DGAC France AD 1997-093-041 R2 to:</p> <ul style="list-style-type: none"> - retain the requirements of AD 1997-093-041 R2; and - include checks, required to be accomplished following the discovery of the complete failure of a diagonal cross-member. 	
<p>Effective Date:</p>	<p>24 May 2007</p>	

Compliance:	<p>Unless already carried out, the following measures are mandatory from July 5, 2003, the effective date of DGAC France AD 1997-093-041 R2:</p> <ol style="list-style-type: none"> 1. Carry out an initial check to ensure that there is no crack and no failure in a center portion of the MGB suspension diagonal cross-member, in accordance with the instructions specified in paragraph 2.B of the referenced EUROCOPTER Alert Service Bulletin. <ol style="list-style-type: none"> 1.1 At the latest at 15,000 operating cycles for SA 365 N and SA 365 N1 helicopters, and at the latest at 11,000 operating cycles for AS 365 N2 helicopters, or, 1.2 No later than within 50 flight hours or 250 cycles, whichever occurs first, for diagonal cross-members with more than 15,000 cycles for SA 365 N and SA 365 N1 helicopters and more than 11,000 cycles for AS 365 N2 helicopters. 2. Following the initial check described above, repeat the check at intervals not exceeding 50 flight hours or 250 cycles, whichever occurs first. 3. Result analysis <ol style="list-style-type: none"> 3.1 If a crack is detected: <p>Before next flight, remove and replace the diagonal cross-member in accordance with the instructions specified in paragraph 2.B.3.a of the referenced ASB.</p> 3.2 If the complete failure of the diagonal cross-member is detected: <p>Before next flight, remove and replace the diagonal cross-member, and perform the checks specified in paragraph 2.B.3.b of the referenced ASB.</p>
Ref. Publications:	EUROCOPTER AS 365 N Alert Service Bulletin (ASB) No. 05.00.37 Revision 2 or later approved revisions.
Remarks:	<ol style="list-style-type: none"> 1. If requested and appropriately substantiated the responsible EASA manager for the related product has the authority to accept Alternative Methods of Compliance (AMOCs) for this AD. 2. This AD was posted on 21 December 2006 as PAD 06-270 for consultation until 22 January 2007. No comments were received during the consultation period. 3. Enquiries regarding this AD should be referred to the AD Focal Point - 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: EUROCOPTER (STDI) - Aéroport de Marseille Provence 13725 Marignane Cedex - France. Ph: 33 (0) 4 42 85 97 97 - Fax: 33 (0) 4 42 85 99 66. E-mail: Directive.technical-support@eurocopter.com