


<b>EASA</b>	<b>EMERGENCY AIRWORTHINESS DIRECTIVE</b>
	<p><b>AD No.: 2011-0129-E</b></p> <p><b>Date: 08 July 2011</b></p> <p>Note: This Emergency 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><b>Type Approval Holder's Name :</b></p> <p>EUROCOPTER</p>	<p><b>Type/Model designation(s) :</b></p> <p>AS 332 and EC 225 helicopters</p>
TCDS Number:	EASA.R.002
Foreign AD:	Not applicable
Supersedure:	This AD supersedes EASA Emergency AD 2009-0275-E dated 21 December 2009.
<b>ATA 53</b>	<b>Fuselage – Intermediate Gear Box (IGB) Fairing Gutter – Inspection / Modification / Replacement</b>
Manufacturer(s):	EUROCOPTER. (formerly EUROCOPTER France).
Applicability:	<p>AS 332 C, AS 332 C1, AS 332 L, AS 332 L1, AS 332 L2 and EC 225 LP helicopters, all serial numbers, if equipped with IGB fairing Part Number (P/N) 332A24-0303-05XX or P/N 332A24-0303-06XX, not modified with either modification MOD 332A081391.00 or MOD 332A081391.01 (gutter removal from the IGB fairing).</p> <p>Note: - MOD 332A081391.00 corresponds to modification applicable to IGB fairings that have <b>NOT</b> been modified with in-service modification for improvement of gutter attachment on IGB fairing (Service Bulletin (SB) 53.01.56 and SB 53-007 for AS332 and EC225 helicopters respectively) or equivalent production MOD 0726599.</p> <p>- MOD 332A081391.01 corresponds to modification applicable to IGB fairings that have been modified with in-service modification for improvement of gutter attachment on IGB fairing (SB 53.01.56 and SB 53-007 for AS332 and EC225 helicopters respectively) or equivalent production MOD 0726599.</p>
Reason:	<p>In 2005, a helicopter experienced separation of the angle section of the IGB fairing which is riveted to the IGB fairing (the IGB fairing gutter), resulting in interference with the tail rotor (TR) inclined drive shaft. This condition, if not corrected, can lead to failure of the drive shaft, causing loss of the TR drive and consequent reduced control of the helicopter. To address this situation, DGAC France issued AD F-2005-116 to require a one-time inspection and, in case of discrepancies, reconditioning of the affected fairing gutter.</p>

	<p>Following another report of gutter separation, EASA issued Emergency AD 2007-0090-E, superseding DGAC France AD F-2005-116R1, and required initial and repetitive inspections to make sure that the IGB fairing gutter is correctly secured and does not come into contact with the TR inclined drive shaft.</p> <p>After EASA AD 2007-0090-E was issued, interference was discovered between the IGB fairing gutter and the inclined TR drive shaft. This interference was due to total separation of the gutter, which came into contact with the TR inclined drive shaft. The investigations conducted on the affected IGB fairing by Eurocopter revealed a more extensive problem concerning the riveting of the gutter.</p> <p>Prompted by these findings, EASA published Emergency AD 2008-0219-E, superseding EASA AD 2007-0090-E whose requirements were retained, to expand the applicability to include other AS 332 helicopter models, and to require more extensive repetitive inspections of the IGB fairing gutter and, in case of discrepancies, replacement of damaged parts. In addition, AD 2008-0219-E provided an optional terminating action through accomplishment of an in-service modification for improvement of gutter attachment on the IGB fairing (SB 53.01.56 and SB 53-007 for AS332 and EC225 helicopters respectively) or equivalent production MOD 0726599.</p> <p>Since AD 2008-0219-E was published, cracks have been reportedly found on the gutter of two helicopters, after embodiment of the terminating action modification. Cracks were also discovered on other helicopters, both pre- or post-installation of this terminating action.</p> <p>Consequently, EASA published Emergency AD 2009-0275-E, superseding EASA AD 2008-0219-E, to re-establish the repetitive inspections of the IGB fairing gutter for all helicopters, irrespective of modification status, and to reduce the inspection interval. In addition, depending on findings, some corrective actions instructed in Eurocopter AS332 SB 53.01.56 and EC225 SB 53-007 became part of the required actions of AD 2009-0275-E.</p> <p>Since AD 2009-0275-E was published, Eurocopter received an additional report of crack occurrence on the gutter of the IGB fairing and as a consequence, it has been decided to make the removal of the gutter from the IGB fairing mandatory (MOD 332A081391.00 or MOD 332A081391.01) pending the development of a new IGB fairing by Eurocopter. In addition, pending gutter removal from IGB fairing installed on the helicopter, repetitive inspections for cracks and interferences must be accomplished. The embodiment of previous MOD 0726599 (in-service modification by SB 53.01.56 for AS 322 or SB 53-007 for EC225 helicopters) is no longer required.</p> <p>For the reasons described above, this new EASA Emergency AD, which supersedes AD 2009-0275-E, requires repetitive inspections of the IGB fairing gutter area and installation or modification of IGB fairings without gutter device, which constitutes terminating action for the repetitive inspections required by this AD.</p>
Effective Date:	12 July 2011
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <ol style="list-style-type: none"> <li>(1) Within 15 flight hours (FH) after the effective date of this AD, and thereafter at intervals not to exceed 15 FH, inspect the gutter of the IGB fairing for cracks, interferences or signs of separation in accordance with the instructions of paragraphs 2.B.1 and 2.B.2 of Eurocopter AS332 Alert Service Bulletin (ASB) 53.01.47 Revision 3 or EC225 ASB 53A001 Revision 3, as applicable to helicopter version.</li> <li>(2) If, during the inspections required by paragraph (1) of this AD, any discrepancy is found, before next flight, accomplish the corrective actions in accordance with the instructions of paragraphs 2.B.3 and 2.B.4 of</li> </ol>

	<p>Eurocopter AS332 ASB 53.01.47 Revision 3 or EC225 ASB 53A001 Revision 3, as applicable to helicopter version.</p> <p>(3) Within 3 months after the effective date of this AD, unless the IGB fairing has been replaced by a part P/N 332A08-1391-01 or is already modified as per corrective actions required by paragraph (2) of this AD, remove the gutter from the IGB fairing in accordance with the instructions of paragraph 2.B.5 of Eurocopter AS332 ASB 53.01.47 Revision 3, or EC225 ASB 53A001 Revision 3, as applicable to helicopter version, by accomplishing the modification as defined in Table 1 of this AD, as applicable to helicopter modification status.</p> <p style="text-align: center;">Table 1</p> <table border="1" data-bbox="571 539 1449 976"> <thead> <tr> <th data-bbox="571 539 1090 633">Modification embodiment status of IGB fairing installed on the helicopter:</th> <th data-bbox="1090 539 1449 633">Modification to be embodied:</th> </tr> </thead> <tbody> <tr> <td data-bbox="571 633 1090 790">Helicopter <b>NOT</b> modified with production MOD 0726599 or equivalent in-service SB 53.01.56 and SB 53-007 for AS332 and EC225 helicopters respectively</td> <td data-bbox="1090 633 1449 790">MOD 332A081391.00</td> </tr> <tr> <td data-bbox="571 790 1090 976">Helicopter <b>already</b> modified with production MOD 0726599 or equivalent in-service SB 53.01.56 and SB 53-007 for AS332 and EC225 helicopters respectively</td> <td data-bbox="1090 790 1449 976">MOD 332A081391.01</td> </tr> </tbody> </table> <p>(4) Accomplishment of the corrective actions as required by paragraph (2) of this AD, or modification of a helicopter as required by paragraph (3) of this AD, as applicable, constitutes terminating action for the repetitive inspection requirements of paragraph (1) of this AD.</p> <p>(5) After the effective date of this AD, do not install on a helicopter an IGB fairing Part Number (P/N) 332A24-0303-05XX or P/N 332A24-0303-06XX unless it has been modified in compliance with the requirements of this AD.</p>	Modification embodiment status of IGB fairing installed on the helicopter:	Modification to be embodied:	Helicopter <b>NOT</b> modified with production MOD 0726599 or equivalent in-service SB 53.01.56 and SB 53-007 for AS332 and EC225 helicopters respectively	MOD 332A081391.00	Helicopter <b>already</b> modified with production MOD 0726599 or equivalent in-service SB 53.01.56 and SB 53-007 for AS332 and EC225 helicopters respectively	MOD 332A081391.01
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Ref. Publications:	<p>Eurocopter AS332 ASB 53.01.47 Revision 3, dated 06 July 2011</p> <p>Eurocopter EC225 ASB 53A001 Revision 3, dated 06 July 2011.</p> <p>The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.</p>						
Remarks :	<ol style="list-style-type: none"> <li>1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.</li> <li>2. The safety assessment has requested not to implement the full consultation process and an immediate publication and notification.</li> <li>3. Enquiries regarding this AD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail: <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a>.</li> <li>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 (4) 12 85 97 97; facsimile +33 (4) 85 99 66; E-mail: <a href="mailto:Directive.technical-support@eurocopter.com">Directive.technical-support@eurocopter.com</a>.</li> </ol>						