


EASA	AIRWORTHINESS DIRECTIVE	
	<p>AD No. : 2007 - 0148</p> <p>Date : 22 May 2007</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 :	Type/Model designation(s) :	
AIRBUS	A330 Aircraft	
TCDS Number: EASA A.004		
Foreign AD: Not applicable		
Supersedure: DGAC AD F-2006-008 approved under EASA reference No 2005-6452 dated December 23, 2005.		
ATA 57	Wing - LH & RH Wing Rib 6 - Inspection / Modification	
Manufacturer(s):	AIRBUS (formerly AIRBUS INDUSTRIE)	
Applicability:	<p>AIRBUS aircraft A330, all certified models, all serial numbers, on which AIRBUS modification 41114 or 44599 has been embodied in production except those on which :</p> <ul style="list-style-type: none"> - AIRBUS modification 53883 or 54432 has been embodied in production or - AIRBUS Service Bulletin (SB) A330-57-3088 has been embodied in service on both wings. 	
Reason:	<p>The aim of this new Airworthiness Directive (AD) which deals with the same subject as AD F-2006-008 is:</p> <ul style="list-style-type: none"> - to supersede AD F-2006-008, - to exclude from the applicability paragraph aircraft fitted with a new Rib 6 Aft on both wings in production through AIRBUS modification 54432. <p>For aircraft already compliant with DGAC AD F-2006-008, no further action is required by this AD.</p>	

	<p><u>Reminder of the reasons given in AD F-2006-008, F-2005-071 and F-2004-195:</u></p> <p>An A330 operator has recently reported during a maintenance check, significant cracking of LH and RH wing rib 6 aft web.</p> <p>The cracks are located in the lower part of rib 6 aft aperture, between bottom skin stringers 18 and 20, and extend from the lower edge of aperture in rib 6 to a fastener hole and then into the fuel pipe hole. The crack has developed through the full thickness of the rib 6.</p> <p>An inspection performed on another aircraft of similar age identified similar finding.</p> <p>This situation if not corrected, can lead to over loading of adjacent ribs and the surrounding wing structure. Crack propagation in rib 6 web could affect the structural integrity of wing.</p> <p>Several ADs were issued to cover this subject :</p> <ul style="list-style-type: none"> - AD F-2006-008 superseded AD F-2005-071 which superseded AD F-2004-195, - to decrease the inspection threshold of the rib 6, - to introduce reference to AIRBUS Service Bulletin (SB) A330-57-3087 or MOD 53882 (satellite holes cold working plus interference fit fasteners), - to clarify inspection requirements in case of hard/overweight landing, - to delete a grace period which is not relevant any longer, - to render mandatory the modification of the wing rib 6 by installation of a reinforcing plate on the wings not already repaired in accordance with repair solution R572-57023 or R572-57026 or modified in accordance with SB 57-3088.
Effective Date:	05 June 2007
Compliance:	<p>The following measures are rendered mandatory from May 07, 2005 [Effective Date of the AD F-2005-071]:</p> <p>1. For aircraft which have not received AIRBUS Modification 53882 (Wings - Rework Rib 6 and refuel pipe fastener holes) in production:</p> <p>1.1. Unless already accomplished, perform inspections on left and right wing rib 6 in accordance with the instructions given in AIRBUS SB A330-57-3085 Revision 01:</p> <ul style="list-style-type: none"> • For aircraft which have accumulated less than 8,000 flight cycles (FC) and 25,000 flight hours (FH) since the first flight on May 07, 2005: <p>before accumulation of 8,000 FC or 25,000 FH, whichever occurs first.</p>

Reminder of the requirements of AD F-2005-071:

- For aircraft which have accumulated more than 8,000 FC or 25,000 FH since first flight on May 07, 2005 (ED of AD F-2005-071), before accumulation of 10,000 FC or 30,000 FH whichever occurs first, but no later than December 31, 2005.

Reminder of the requirements of AD F-2004-195:

- For aircraft which have accumulated more than 10,000 FC or 30,000 FH since first flight on December 22, 2004 (ED of AD F-2004-195), no later than March 31, 2005.

Note 1: No immediate additional inspection is required for aircraft previously inspected as per AIRBUS All Operators Telex (AOT) A330-57A3085 and without crack finding.

Note 2: The mandatory inspection threshold for aircraft on which AIRBUS SB A330-57-3087 has been performed, has to be calculated from AIRBUS SB A330-57-3087 embodiment time and is provided in the Inspection Flow Chart Figure 4 Sheet 1 of AIRBUS SB A330-57-3085 Revision 01 and depends on aircraft weight variant (see § 1.2.).

1.2. If no cracks are found after inspections performed per AIRBUS AOT A330-57A3085 or AIRBUS SB A330-57-3085 Revision 01:

- For aircraft which have not received application of AIRBUS SB A330-57-3087 in service (Wings - Rework Rib 6 and refuel pipe fastener holes):

Repeat inspections defined in AIRBUS SB A330-57-3085 Revision 01 at intervals not exceeding 8,000 FC or 25,000 FH following the last inspection, whichever occurs first and apply if necessary the correctives actions defined in § 1.3. of this AD.

- For aircraft which have received application of AIRBUS SB A330-57-3087 in service (Wings - Rework Rib 6 and refuel pipe fastener holes):
 - Perform inspections defined in AIRBUS SB A330-57-3085 Revision 01 at the next threshold values mentioned in the Inspection Flow Chart Figure 4 Sheet 1 of this SB, and apply if necessary the corrective actions defined in § 1.3. of this AD.
 - If no crack is found, repeat these inspections at intervals not exceeding 8,000 FC or 25,000 FH, whichever occurs first, and apply if necessary the corrective actions defined in § 1.3. of this AD.

1.3. In case any crack or damage is found:

- Contact AIRBUS to get a repair instruction before next flight.
- After repair, contact AIRBUS for subsequent thresholds and intervals associated to the specific inspection program.

Note 3: A330 SRM 57-21-36 document provides instruction for the repair, and A330 SRI 57-21-36 provides instruction for the next inspection threshold.

2. For aircraft which have received AIRBUS Modification 53882 (Wings - Rework Rib 6 and refuel pipe fastener holes) in production or SB A330-57-3087 in service:

- 2.1.** Perform inspections defined in AIRBUS SB A330-57-3085 Revision 01 at the threshold values mentioned in the Inspection Flow Chart Figure 4 Sheet 1 of this SB, and apply if necessary the corrective actions defined in § 2.3. of this AD.
- 2.2.** If no crack is found, repeat inspections at interval not exceeding 8000 FC or 25000 FH, whichever occurs first, and apply if necessary the corrective actions defined in § 2.3. of this AD.
- 2.3.** In case any crack or damage is found:
- Contact AIRBUS to get a repair instruction before next flight.
 - After repair, contact AIRBUS for subsequent thresholds and intervals associated to the specific inspection program.

Note 4: A330 SRM 57-21-36 document provides instruction for the repair, and A330 SRI 57-21-36 provides instruction for the next inspection threshold.

3. Hard or overweight landing case:

For aircraft above 8,000 FC or 25,000 FH with at least one wing rib 6 not repaired in accordance with § 1.3. or 2.3. of this AD nor modified per AIRBUS SB A330-57-3087 nor modified per AIRBUS SB A330-57-3088, perform the following inspections on the wing(s) not previously repaired nor modified, in case of hard or overweight landing reported by the crew:

- 3.1.** Prior to next flight and in addition to AMM 05-51-11 visual inspection, perform a Detailed Visual Inspection (DVI) from outside of the wing bottom skin surface in accordance with AIRBUS Technical Disposition TD/J1/S3/00608/2005. Contact AIRBUS to get this Technical Disposition.
- 3.2.** In case of nil finding after the AMM inspection and DVI, within 10 FC following this DVI perform an Ultra-Sonic Inspection (USI) from outside of the wing bottom skin surface in accordance with AIRBUS Technical Disposition TD/J1/S3/00608/2005. Contact AIRBUS to get this Technical Disposition.
- 3.3.** In case of finding after AMM inspection or DVI or USI, contact AIRBUS prior next flight to get instructions.

Note 5: Hard/Overweight Landing definition can be found in AMM Chapter 05-51-11.

	<p>4. Terminating action (modification):</p> <p>Unless already accomplished, no later than December 31, 2010, modify in accordance with instructions given in SB A330-57-3088 the rib 6 on the wings which have not been already repaired in accordance with repair instructions R572-57023 or R572-57026.</p> <p>Note 6: Embodiment of SB A330-57-3088 cancels the requirements of paragraphs 3.1., 3.2. and 3.3. of this AD, except paragraphs 1.3. and 2.3. which remain applicable to any wing side repaired in accordance with repair instructions R572-57023 or R572-57026 (a specific mandatory inspection program is applicable to the repaired wings).</p>
Ref. Publications:	<p>AIRBUS All Operators Telex A330-57A3085 dated December 15, 2004</p> <p>AIRBUS Service Bulletin A330-57-3085 Revision 01</p> <p>AIRBUS Service Bulletin A330-57-3087</p> <p>AIRBUS Service Bulletin A330-57-3088</p> <p>(Any later approved revision of these documents is acceptable)</p> <p>AIRBUS Technical Disposition TD/J1/S3/00608/2005.</p>
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 as PAD 07-081 for consultation on 08 May 2007 with a comment period until 21 May 2007. No comments were received during consultation period. 3. Enquiries regarding this Airworthiness Directive 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: AIRBUS SAS – Airworthiness Office – EAL Fax: + 33 5 61 93 45 80 or + 33 5 61 93 44 51.