


EASA	AIRWORTHINESS DIRECTIVE
	<p>AD No.: 2009-0260</p> <p>Date: 10 December 2009</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 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>	
Type Approval Holder's Name :	Type/Model designation(s) :
AIRBUS	A330 and A340 aeroplanes
TCDS Number : EASA.A.004, EASA.A.015	
Foreign AD : Not applicable	
Supersedure : None	
ATA 29	Hydraulic Power Ram Air Turbine (RAT) Balance Weight Screws – Inspection/Replacement
Manufacturer(s):	Airbus (formerly Airbus Industrie)
Applicability:	<p>Airbus A330-201, A330-202, A330-203, A330-223, A330-243, A330-301, A330-302, A330-303, A330-321, A330-322, A330-323, A330-341, A330-342 and A330-343 aeroplanes, all manufacturer serial numbers if equipped with a Hamilton Sundstrand RAT turbine lower gear box assembly, as identified by Part Number (P/N) in Hamilton Sundstrand Service Bulletin (SB) ERPS06G-29-6.</p> <p>Airbus A340-211, A340-212, A340-213, A340-311, A340-312 and A340-313 aeroplanes, all manufacturer serial numbers if equipped with Hamilton Sundstrand RAT turbine lower gear box assembly, as identified by P/N in Hamilton Sundstrand SB ERPS06G-29-6.</p> <p>Airbus A340-541, A340-542, A340-642 and A340-643 aeroplanes, all serial numbers if equipped with Hamilton Sundstrand RAT turbine assembly, as identified by P/N in Hamilton Sundstrand SB ERPS33G-29-1</p>
Reason:	<p>Hamilton Sundstrand (HS), the manufacturer of the RAT, reported the failure of a balance weight fastening screw on the RAT cover during a wind tunnel test. After investigation, it has been discovered that a batch of screws, which are used to attach the balance washers of the Hamilton Sundstrand RAT turbine lower gear box assembly, has not been subject to the correct heat treatment and the screws are consequently exposed to potential fracture.</p> <p>This condition, if not corrected, might lead to the ejection of screw heads and consequently to the detachment of the associated balance washers. The loss of balance washers could increase RAT vibrations, which might lead to a</p>

	<p>possible detachment of RAT parts, and thus to damage to the aeroplane and risk of injury to persons on the ground.</p> <p>For the reasons described above, this AD requires the requires the identification of the affected RAT turbine lower gear box assemblies and replacement of all balance screws or, in case balance washer detachment is found, replacement of the RAT turbine lower gear box assembly.</p>
Effective Date:	24 December 2009
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <p>(1) Before the next RAT spin test, or within 3 000 flight hours (FH) or 8 months after the effective date of this AD, whichever occurs first:</p> <ul style="list-style-type: none"> - Identify the P/N and s/n of the RAT turbine lower gear box assembly, and - In case the P/N and s/n of the RAT turbine lower gear box assembly are listed in the applicable HS SB, or if the P/N and s/n cannot be identified, inspect the RAT turbine lower gear box assembly in accordance with the instructions of Airbus All Operator Tel. (AOT) A330-29A3110 or Airbus AOT A340-29A4085 or Airbus AOT A340-500/600-29A5015, as applicable to aeroplane model: <p>(1.1) If all balance screws are fitted on the turbine, within 3 000 FH or 8 months, whichever occurs first after the effective date of this AD, either:</p> <ul style="list-style-type: none"> - replace the RAT turbine lower gear box assembly, or - replace all balance screws of the RAT turbine lower gear box assembly. <p>(1.2) If one or more screws are fractured but the associated balance washers are still fitted on the RAT turbine lower gear box assembly, then before next flight, perform one of the actions as specified in paragraph (1.1) of this AD.</p> <p>(1.3) If one or more screws are fractured and any balance washer is missing, before next flight, replace the RAT turbine lower gear box assembly.</p> <p>(2) Within 30 days after accomplishment of the inspection required by paragraph (1) of this AD, report the results, including no findings, to Airbus.</p> <p>(3) After the effective date of this AD, do not install on an aeroplane a RAT turbine lower gear box assembly as identified by P/N in HS SB ERPS06G-29-6 or HS SB ERPS33G-29-1, as applicable to aeroplane model, unless it has been inspected and, if necessary, corrected in accordance with the requirements of this AD.</p>
Ref. Publications:	<p>Airbus AOT A330-29A3110 at original issue. Airbus AOT A340-29A4085 at original issue. Airbus AOT A340-500/600-29A5015 at original issue.</p> <p>The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.</p> <p>Hamilton Sundstrand SB ERPS06G-29-6. Hamilton Sundstrand SB ERPS33G-29-1.</p>
Remarks :	<p>1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.</p> <p>2. This AD was posted on 07 October 2009 as PAD 09-122 for consultation until 04 November. The Comment Response Document can be found at</p>

	<p>http://ad.easa.europa.eu/.</p> <p>3. Enquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail ADs@easa.europa.eu.</p> <p>4. For any questions concerning the technical content of the requirements in this AD, please contact: AIRBUS – Airworthiness Office – EAL; E-mail: A330-A340@airbus.com.</p>
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