EASA AD No.: 2008-0203-E

## EASA

## **EMERGENCY AIRWORTHINESS DIRECTIVE**

AD No.: 2008-0203-E

Date: 19 November 2008

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.

This AD is issued in accordance with EC 1702/2003, Part 21A.3B. In accordance with EC 2042/2003 (Mex I, Part In A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, operson may perate an aircraft to which an AD applies, except in accordance with the requirements of that AD unless otherwise specified by the ency [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) amption.

Type Approval Ho	older's Name :	Type/Model designation(s):  A330 and a340 An raft
TCDS Number :	EASA.A.004, EASA.A.015	
Foreign AD :	Not applicable	
Supersedure :	None	
ATA 34	Procedure Procedure	Inertial Reference Unit (ADIRU) – Operational
Manufacturer(s):	AIR US (iormerly AIRBU	JS INDUSTRIE)
Applicability:	<b>1</b> , -322, -323, -341, -3	nodels -201, -202, -203, -223, -243, -301, -302, -303, -42 and -343, all serial numbers, equipped with Northropnn) ADIRUs Part Number (P/N) 465020-0303-03ZZ (with usive).
	-642 and -643, all serial i	nodels -211, -212, -213, -311, -312, -313, -541, 542, numbers, equipped with Northrop-Grumman (formerly 020-0303-03ZZ (with ZZ from 09 up to 16 inclusive).
ni:	was preceded by an autor	ced a sudden nose down order while in cruise. This order matic autopilot disconnection and triggering of the "NAV IR1 lised Aircraft Monitor (ECAM) Caution.
	part of ADIRU1 was provious random manner. This abn such as unjustified stall ar	that at time of the event the Air Data Reference 1 (ADR) ding erroneous and temporary wrong parameters in a ormal behaviour of the ADR1 led to several consequences of over speed warnings, loss of attitude information on splay (PFD) and several ECAM warnings.
		meters, the provided Angle of Attack (AoA) value was such outers commanded a sudden nose down aircraft tes an unsafe condition.
		tigation, the analysis of available data indicates ADIRU likely at the origin of the event.

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	Due to similar design, the A340 aircraft are also impacted by this issue.  In order to prevent the ADR from providing erroneous data to other aircraft systems, this AD requires, in case faulty Inertial Reference (IR) is detected, to isolate both the IR and ADR by accomplishment of the modified AFM operational procedure.	
Effective Date:	21 November 2008	
Required Action(s) and Compliance Time(s):	Required as indicated:  1. After the effective date of this AD apply the following operational procedure:  - NAV - IR 1 (2) (3) FAULT  Turn off the affected IR.  Turn off the corresponding ADR.  Use AIR DATA switching as appropriate.  Use AIT HDG switching as appropriate.  Note: The affected IR mode rotary selector must remain in the NA V position.  - NAV - IR 1+2 (2+3) (1+3) FAULT  Note: Flight controls are in alternative. Reser to CTL - ALTN LAW (chapter 4 of the AFM)  Turn off the affected IRs.  Turn off the affected IRs.  Turn off the frected IR.  Use AIR DATA switching as a promate.  Note: The affected IR - rotal selectors must remain in the NAV position.  Do not use speed brakes  • If CG above 32%  Manually perform a norward feel transfer from the trim tank.  Note: If it in ta, it pumb for of available, do not perform manualforward fuel transfer while speed is at or below 270 kt or while in climb.  Note: In is operational procedure is covered by the following Temporary Revisions (i. i.) of the Aircraft Flight Manual (AFM):  A3 J AFM TR 4.02.00/46 (OEB N°74/2)  340 AFM TR 4.02.00/54 (OEB N°88/2 and OEB N°89/2)  2. Incorporation of the appropriate AFM TR or inserting the above operational procedure or a copy of this AD into the AFM is acceptable to comply with the requirements of § 1 of this AD.	
Ref. Publications:	ARBUS A330 AFM TR 4.02.00/46 approved by EASA on 18 November 2008; AIRBUS A340 AFM TR 4.02.00/54 approved by EASA on 18 November 2008. The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.	
Remarks	<ol> <li>If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.</li> <li>The safety assessment has requested not to implement the full consultation process and an immediate publication and notification.</li> <li>Enquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management &amp; Research Section, Certification Directorate, EASA; E-mail: ADs@easa.europa.eu.</li> <li>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, E-mail: airworthiness.A330-A340@airbus.com.</li> </ol>	

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