EASA	AIRWORTHINESS DIRECTIVE
	AD No: 2006-0313 **Date: 13 October 2006**

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 SAS	A330 and A340 Aircraft

TCDS Number : : EASA A.004 and A.015

Foreign AD : Not applicable

Supersedure : Not applicable

ATA 27	**Flight Controls – Back-up Control Module (BCM) – Operational Test /Replacement**
Manufacturer(s):	AIRBUS (formerly AIRBUS INDUSTRIE)
Applicability:	AIRBUS A330 aircraft, all certified models, all serial numbers, on which AIRBUS modification 49144 (install rudder fly by wire) has been embodied in production except those on which AIRBUS modification 55185 has been embodied in production or AIRBUS Service Bulletin (SB) A330-27-3142 has been embodied in service. AIRBUS aircraft A340-200 and A340-300 series, all certified models, all serial numbers, on which AIRBUS modification 49144 has been embodied in production except those on which AIRBUS modification 55185 has been embodied in production or AIRBUS SB A340-27-4142 has been embodied in service. AIRBUS aircraft A340-500 and A340-600 series, all certified models, all serial numbers, except those on which AIRBUS modification 55186 has been embodied in production or AIRBUS SB A340-27-5036 has been embodied in service.
Reason:	During a BCM retrofit campaign, one resistor manufactured by SRT was found with an abnormal resistance drift. This resistor was subject to humidity absorption and then to oxidation, which leads to increase the resistor value.

	This oxidation has been determined coming from a production quality issue. When the aircraft is in control back up configuration (considered to be an extremely remote case), an incorrect value on these resistors may cause degradation of the BCM piloting laws, potentially leading to erratic motion of the rudder and to possible impact on the Dutch Roll. In order to detect a degradation of the BCM piloting laws due to resistor oxidation, this Airworthiness Directive (AD) mandates a repetitive ground operational test of the BCM fitted with resistor manufactured by SRT until accomplishment of terminating action (installation of BCM fitted with resistors manufactured by VISHAY).
Effective Date:	27 October 2006
Compliance:	The following measures are rendered mandatory from the effective date of this AD: **1. INSPECTION:** Within 900 Flight Hours (FH) from the effective date of this AD and, thereafter, at intervals not exceeding 900 FH, perform an operational test of the BCM and Back-up Power Supply (BPS) by BITE (Built In Test Equipment), and if necessary apply the corrective actions, in accordance with instructions defined in AIRBUS SB A330-27-3147 or AIRBUS SB A340-27-4147 or AIRBUS SB A340-27-5038. Replacement of affected Back-up Control Module (BCM) in accordance with AIRBUS SB A330-27-3142 or AIRBUS SB A340-27-4142 or AIRBUS SB A340-27-5036 cancels the mandatory repetitive operational test every 900FH. **2. MODIFICATION:** No later than 31 December 2008, install modified BCM in accordance with instructions given in AIRBUS SB A330-27-3142 or AIRBUS SB A340-27-4142 or AIRBUS SB A340-27-5036.
Ref. Publications:	AIRBUS SB A330-27-3147, SB A330-27-3142, SB A340-27-4147, SB A340-27-4142, SB A340-27-5038 or SB A340-27-5036, as applicable, or any later approved revision.
Remarks :	1. If requested and appropriately substantiated the responsible EASA manager for the related product has the authority to accept Alternative Method of Compliance (AMOCs) for this AD. 2. This AD was posted as PAD 06-212 for consultation on 17 August 2006 with a comment period until 27 August 2006. No comments were received during the 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.