EASA	AIRWORTHINESS DIRECTIVE	
	AD No.: 2010-0189	
	Date: 23 September 2010	
C	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.	

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].

Type Approval Holder's Name : Agusta S.p.A.		Type/Model designation(s): AB139 and AW139 helicopters	
TCDS Number: EASA.R.006		•	
Foreign AD: N	lot applicable		
Supersedure : N	lone		
ATA 34	Navigation – Modular Avionic Unit – Inspection / Replacement / Modification		
Manufacturer(s):	Agusta S.p.A.		
Applicability:	AB139 and AW139 helicopters, from serial number (S/N) 31005 to S/N 31157 included (except S/N 31007, S/N 31094 and S/N 31149) and from S/41001 to S/N 41023 included.		
Reason:	water and external mois Modular Avionic Units (I	a-flight emergency occurrences has led to identify sature as a contributory factor to the corrosion of MAU)2 module circuit card assemblies. In particular odules have been verified to be susceptible to this s.	
	provide false indications In addition, misleading of modes of the autopilot, and anomalies would sign	evels of moisture, MAU can cause the system to sor misleading data to be displayed to the flight credata may cause disengagement of the flight director or other alerting system anomalies. These failures gnificantly increase the workload of the flight crew d to loss of control of the helicopter.	
	(AAIB) investigation on	een confirmed by an Air Accident Investigation Bran an incident where the triggering of false confusing onboard an Agusta AW139 engaged in off-shore	
	to ensure there is no sig applicable corrective ac the modification of the N	spection of MAU1 and MAU2 modules and connector of corrosion, and the accomplishment of the tions, as necessary. Furthermore, this AD requires MAU2 ventilation duct installation, in order to keep the irect air flow coming from the ventilation duct outlet.	

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Effective Date:	07 October 2010
Required action(s) and Compliance Time(s):	Required as indicated, unless already accomplished:  (1) Within 150 flight hours (FH) or 3 months, whichever occurs first, after the
	effective date of this AD, inspect the MAU1 and MAU2 Power Supply (PS) modules, Custom Input/Output (CSIO) modules and Control Input/Output (CIO) modules for structural integrity and to ensure that there is no sign of corrosion, and inspect all related connectors for any sign of corrosion, in accordance with the instructions of Agusta Bollettino Tecnico (BT) 139-166.
	(2) If any sign of corrosion on the connectors is found, clean the connectors before further installation, in accordance with the instructions of Agusta BT 139-166.
	(3) If any sign of corrosion or structural damage is found on a module, before next flight replace the module in accordance with the instructions of Agusta BT 139-166.
	(4) Within 150 flight hours (FH) or 3 months, whichever occurs first, after the effective date of this AD, modify the MAU2 ventilation duct, in accordance with the instructions of Agusta BT 139-166.
Ref. Publications:	Agusta Alert Bollettino Tecnico 139-166 dated 06 April 2009.
	The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.
Remarks:	If requested and appropriately substantiated, EASA can approve     Alternative Methods of Compliance for this AD.
	<ol> <li>The required actions and the risk allowance have granted the issuance of a Final AD with Request for Comments, postponing the public consultation process after publication.</li> </ol>
	<ol> <li>Enquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management &amp; Research Section, Certification Directorate, EASA. E-mail: <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a>.</li> </ol>
	For any question concerning the technical content of the requirements in this AD, please contact Agusta S.p.A.     E-mail: <a href="mailto:aw139.mbx@agustawestland.com">aw139.mbx@agustawestland.com</a> .

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