

EASA	EMERGENCY AIRWORTHINESS DIRECTIVE	
	AD No.: 2014-0040-E	
	Date: 19 February 2014 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 EU 748/2012, Part 21.A.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].		
Design Approval Holder's Name: AGUSTAWESTLAND S.p.A.		Type/Model designation(s): AB 412 and AB 412 EP helicopters
TCDS Number: ENAC Italy A 157		
Foreign AD: Not applicable		
Supersedure: None		
ATA 65	Tail Rotor Drive – Flanged Adapter – Inspection / Replacement	
Manufacturer(s):	AgustaWestland S.p.A. (formerly Agusta S.p.A)	
Applicability:	AB 412 helicopters S/N 25801 through 25900 and AB 412 EP helicopters S/N 25901 and subsequent.	
Reason:	A crack has been found during a scheduled inspection of a flanged adapter, Part Number (P/N) 412-040-622-101, installed on the tail rotor drive shaft P/N 412-040-621-107 of an AB412EP helicopter. This condition, if not detected and corrected, could lead to tail rotor drive shaft failure, possibly resulting in reduced control of the helicopter. To address this potential unsafe condition, AgustaWestland issued the Bollettino Tecnico (BT) 412-139, providing instructions to inspect the affected parts. However, the investigation to determine the root cause of the crack on the flanged adapter is in progress and the instructions of BT 412-139 will be updated according to the investigations results. For the reasons described above, this AD requires repetitive inspections of the flanged adapters, P/N 412-040-622-101 and P/N 412-040-623-101, installed on the tail rotor drive shaft and, in case cracks are found, replacement of the cracked part with a serviceable one.	
Effective Date:	21 February 2014	

Required Action(s) and Compliance Time(s):	Required as indicated, unless accomplished previously: (1) Within 5 flight hours (FH) after the effective date of this AD, and, thereafter, at intervals not to exceed 100 FH, inspect the flanged adapter P/N 412-040-622-101 and P/N 412-040-623-101, as applicable, depending on helicopter model and S/N, in accordance with the instructions of AgustaWestland BT 412-139. (2) If, during any inspection as required by paragraph (1) of this AD, a flanged adapter is found cracked, before next flight, replace the flanged adapter with a serviceable part in accordance with the instructions of AgustaWestland BT 412-139. (3) Within 10 days after removing a cracked flanged adapter from a helicopter, as required by paragraph (2) of this AD, report the findings and send the cracked part to AgustaWestland for investigation. (4) From the effective date of this AD, installation of a flanged adapter P/N 412-040-622-101 or P/N 412-040-623-101 is allowed, provided the part has passed an inspection in accordance with the instructions of the BT 412-139 and, following installation, is inspected as required by paragraph (1) of this AD.
Ref. Publications:	AgustaWestland BT 412-139 original issue, dated 19 February 2014. The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.
Remarks:	1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 2. The results of the safety assessment have indicated the need for immediate publication and notification, without the full public consultation process. 3. Enquiries regarding this AD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail: ADs@easa.europa.eu. 4. For any question concerning the technical content of the requirements in this AD, please contact: AgustaWestland S.p.A, Customer Support & Services – Italy, Product Support Engineering Dpt., Via del Gregge, 100, 21015 Lonate Pozzolo (VA) – ITALY Tel.: +39 0331 664905, Fax: +39 0331 664684. E-mail: absereng@agustawestland.com.