



Airworthiness Directive

AD No.: 2006-0290R2

Issued: 02 June 2017

Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) 216/2008 on behalf of the European Union, 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 Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 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 [Regulation (EU) 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [Regulation (EC) 216/2008, Article 14(4) exemption].

Design Approval Holder's Name:

ENSTROM HELICOPTER CORPORATION

Type/Model designation(s):

480 and 480B helicopters

Effective Date: Revision 2: 02 June 2017
Revision 1: 22 March 2011
Original issue: 09 October 2006

TCDS Number(s): EASA.IM.R.122

Foreign AD: Not applicable

Revision: This AD revises EASA AD 2006-0290R1 dated 08 March 2011. The original issue of this AD superseded CAA United Kingdom AD G-2003-0002 dated 12 August 2003.

ATA 05 – Time Limits/ Maintenance Checks – Life Limited Components – Replacement

Manufacturer(s):

Enstrom Helicopter Corporation

Applicability:

480 and 480B helicopters, all serial numbers (s/n).

Reason:

During validation (by the UK CAA) of the Enstrom 480/480B helicopter in Europe, reduced lives were identified for a number of components, because the original certificated Mandatory Replacement Lives for these components had not been properly substantiated in accordance with the applicable European requirements.

Failure to comply with these reduced lives could affect the safety of the helicopter and constitutes a potential unsafe condition.

The CAA UK issued Additional AD 001-11-99, later superseded by Additional AD G-2003-0002, to require UK operators to comply with these reduced lives. After review of all UK CAA Additional AD's



submitted for consideration under regulation (EC) 1592/2002 Article 10.1 to become EU requirements, EASA issued AD 2006-0290 (later revised), retaining the requirements of AD G-2003-0002, which was superseded. That AD referenced FAA TCDS H1CE since at that time no EASA TCDS was available.

Since EASA AD 2006-0290R1 was issued, it was determined that the life limit previously defined for the Main Rotor Blade Retention Pin, Part Number (P/N) 28-14007-3, can be removed, extending the replacement time to “on condition”. Furthermore, TCDS EASA.IM.R.122 was issued.

Consequently, this AD is revised to remove the life limit for the Main Rotor Blade Retention Pin, and to include reference to the EASA TCDS.

The revision of this AD also contains some editorial changes for reasons of standardisation; no changes have been made to the technical requirements, with the exception of the deleted life limit quoted above.

Required Action(s) and Compliance Time(s):

Required as indicated, unless accomplished previously:

Parts Replacement:

- (1) After 09 October 2006 [the effective date of the original issue of this AD], replace each component listed in Appendix 1 of this AD before exceeding the applicable replacement time, as specified in Appendix 1 of this AD, as applicable to helicopter Model.

Aircraft Maintenance Programme (AMP) Revision:

- (2) Compliance with the requirements of paragraph (1) of this AD can be demonstrated by:
 - (2.1) Revising the approved AMP on the basis of which the Operator or the Owner ensures the continuing airworthiness of each operated helicopter, by incorporating the component replacement compliance times, as applicable to the helicopter configuration, as defined in Appendix 1 of this AD, and
 - (2.2) Complying with the approved AMP described in paragraph (2.1) of this AD.

Recording AD compliance:

- (3) When the AMP of a helicopter has been revised as defined in paragraph (2.1) of this AD, that action ensures (see Note 1 of this AD) continued accomplishment of the tasks as required by paragraphs (1) of this AD for that helicopter. Consequently, after revising the AMP, as defined in paragraph (2.1) of this AD, it is not necessary that accomplishment of individual action is recorded for demonstration of AD compliance on a continued basis.

Note 1: For affected Enstrom 480 and 480B helicopters registered in Europe, complying with the approved AMP as specified in paragraph (2) of this AD is required by Commission Regulation (EU) [1321/2014](#), Part M.A.301, paragraph 3.

Note 2: Enstrom TH-28/480 series Maintenance Manual (MM), Table 3-1 “Mandatory Retirement Life Limits”, contains other applicable airworthiness limitations. For each component listed in



Appendix 1 of this AD, the replacement compliance time listed in Appendix 1 of this AD supersedes the retirement life specified in the MM for that component.

Ref. Publications:

Enstrom TH-28/480 series MM, Table 3-1 “Mandatory Retirement Life Limits”, currently at Revision 24, dated 04 December 2015.

Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
2. The original issue of this AD was posted as PAD 06-078 for consultation on 28 March 2006 with a comment period until 28 April 2006, which was subsequently extended. The Comment Response Document can be found at <http://ad.easa.europa.eu>, in the compressed (zipped) file attached to the record for this AD.
3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
4. For any question concerning the technical content of the requirements in this AD, please contact: Enstrom Helicopter Corporation, P.O. Box 490, 2209 22nd Street, Menominee, Michigan 49858, United States of America, E-mail: customerservice@enstromhelicopter.com.



Appendix 1 – Components with Reduced Lives – Replacement Compliance Times (FH)

Component Name	Part Number (P/N)	Model 480 Replacement Time	Model 480B Replacement Time
Main Rotor Hub Plate	28-14207-101	Deleted – on condition	
	28-14280-1	1 275	N/A**
	28-14280-3	1 275	N/A**
	28-14280-5	1 275	1 029
	28-14281-1	1 275	N/A**
	28-14281-3	1 275	N/A**
	28-14281-5	1 275	1 029
Main Rotor Blade Retention Pin	28-14007-3	Deleted – on condition	
Extension Tube Assembly	4112011-5	1 250	1 000
Ring Gear	28-13108-7	1 200	
Spar Fitting Attachment Rivet*	MS20470AD5-4	1 000	N/A**

* These rivets attach the horizontal stabilizer spar to the tailcone assembly. Enstrom Service Information Letter T-008 provides an alternative spar fitting attachment method which removes the retirement life limit.

** Not Applicable: Part number not used on the Model 480B helicopters

