



Airworthiness Directive

AD No.: 2015-0235

Issued: 18 December 2015

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 HELICOPTERS CORPORATION

Type/Model designation(s):

F-28 and 280 helicopters

Effective Date: 28 December 2015

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

Foreign AD: Not applicable

Supersedure: None

ATA 04 – Life limited items - Airworthiness limitation Section Amendment / Implementation

Manufacturer(s):

Enstrom Helicopter Corporation

Applicability:

Enstrom F-28A, F-28C, F-28C-2, 280 and 280C helicopters, all variants, all serial numbers.

Reason:

The airworthiness limitations applicable to the Enstrom F-28 and 280 helicopters are listed in the Federal Aviation Administration Type Certificate Data Sheet H1CE. This document is not legally binding for helicopters operated under EASA rules.

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

For the reason described above, this AD provides a list of applicable airworthiness limitation and mandates compliance with these requirements.

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

Required as indicated, unless accomplished previously:



- (1) From the effective date of this AD, replace each component before exceeding the applicable life limit as specified in the Appendix 1 of this AD.
- (2) Within 12 months after the effective date of this AD, revise the approved aircraft maintenance programme (AMP), on the basis of which the operator or the owner ensures the continuing airworthiness of each operated helicopter, by incorporating the limitations described in the Appendix 1 of this AD.
- (3) When an AMP of an helicopter has been revised as required by paragraph (2) of this AD, as applicable, that action ensures (see Note 1 of this AD) continued accomplishment of the tasks as required by paragraph (1) of this AD for that helicopter. Consequently, after revising the AMP, as required by paragraph (2) of this AD, as applicable, it is not necessary that accomplishment of individual tasks is recorded for demonstration of AD compliance on a continued basis.

Note 1: For affected helicopters registered in Europe, complying with the approved AMP as specified in paragraph (2) of this AD is required by Commission Regulation (EU) No [1321/2014](#), Part M.A.301, paragraph 3.

Ref. Publications:

FAA TCDS No. H1CE.

Enstrom Service Information Letter (SIL) No. 0116.

Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
2. Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication.
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,
2209 22nd Street, Menominee, Michigan 49858,
United States of America
E-mail: engineering@enstromhelicopter.com.



Appendix 1 – Life Limits – Replacement Compliance Times

Component Name	Part Number (P/N)	Old Part Number	F-28A	280
Bearing, Belt Idler Pulley	ECD018-11	202SZZ	600 FH	600 FH
Bearing, Upper Jack Strut	ECD014-11, ECD014-13	Z99606X3B 6308-2RS	600 FH**	600 FH**
Clutch	28-13401-1	CL40526-1 thru -7 (Formsprag)	1 200 FH	1 200 FH
Bearing, Lower Swashplate	ECD009-11, ECD009-13	5201SBKZZ	1 200 FH**	1 200 FH**
Bearing Upper Swashplate	ECD013-11, ECD013-13	Z993L13X3B 6013-RS	1 200 FH**	1 200 FH**
Tail Rotor Blade, 3.3 in. cord	28-15120-1		4 500 FH++	4 500 FH++
Tail Rotor Spindle (3.3 in. cord T/R Assy)	28-15202-13		7 500 FH	7 500 FH
Coupling, Tail Rotor Driveshaft	28-13609-1		1 200 FH	1 200 FH
Coupling, Flex Pack Assembly	28-01041-3	A005-1992 (Dana)	1 200 FH	1 200 FH
Tail Rotor Gear set	ECD074-1, ECD074-2	XR-137-2YL, XR-137-2R	1 200 FH	1 200 FH
Tail Rotor Gear set	ECD100-1, ECD100-2, ECD100-1A, ECD100-2A, ECD100-1B, ECD100-2B		1 200 FH	1 200 FH
Tail Rotor Gear set	ECD101 -1, -2		1 200 FH	1 200 FH
Main Rotor Spindle	28-14282-11		19 000 FH	19 000 FH
Thrust Bearing (Lamiflex)	28-14320-12, 28-14320-15		ΔΔ	ΔΔ
Tachometer Drive Belt (O-Ring)	NAS1611-333		Δ	Δ
**	On Condition when used with grease fitting			
++	Right hand installations only (28-16300); left hand installations are on condition.			



Component Name	Part Number (P/N)	Old Part Number	F-28A	280
ΔΔ	<p>Retire from service 5 calendar years from date of manufacture all Lamiflex bearings serial number 5997 and prior.</p> <p>Retire from service 5 calendar years from date of installation* or 8 calendar years from date of manufacture, whichever occurs first, all Lamiflex bearings serial numbers 5998 and subsequent.</p> <p>*Note: Date of installation is defined as the date the Lamiflex bearing packaging is opened.</p>			
Δ	<p>Retire from service 5 calendar years from date of installation or package opening, or 8 years from date of manufacture, whichever occurs first.</p>			



Component Name	Part Number (P/N)	Old Part Number	F-28C/F-28C-2/280C		
			MTOW = 2200 lbs	MTOW = 2350 lbs	MTOW = 2600 lbs
Bearing, Belt Idler Pulley	ECD018-11	202SZZ	600 FH	600 FH	600 FH
Bearing, Upper Jack Strut	ECD014-11, ECD014-13	Z99606X3B 6308-2RS	600 FH**	600 FH**	600 FH**
Clutch	28-13401-1	CL40526-1 CL40526-2 CL40526-3 CL40526-4 CL40526-5 CL40526-6 CL40526-7 (Formsprag)	1 200 FH	1 200 FH	1 200 FH
Turbo Charger Model 301E10-2	RJ0328		1 000 FH	1 000 FH	1 000 FH
Turbo Charger Model 325E10-2	RJ0332		2 000 FH	2 000 FH	2 000 FH
Turbo Charger Model 3BT2EE10J2	103574-00		2 000 FH	2 000 FH	2 000 FH
Turbo Charger Model 3BT5EE10J2	600700-00	103574-00	2 000 FH	2 000 FH	2 000 FH
Bearing, Lower Swashplate	ECD009-11, ECD009-13	5201SBKZZ	1 200 FH**	1 200 FH**	1 200 FH**
Bearing Upper Swashplate	ECD013-11, ECD013-13	Z993L13X3B 6013-RS	1 200 FH**	1 200 FH**	1 200 FH**
Universal Housing, Lower Swashplate	28-16119-1, 28-16119-3		20 560 FH	17 700 FH	17 700 FH
Tail Rotor Blade, 4.4 in. cord	28-150002-1		3 100 FH	3 100 FH	3 100 FH
Tail Rotor Spindle (3.3 in. cord T/R Assy)	28-15202-13		7 500 FH	N/A	N/A
Tail Rotor Spindle (4.4 in. cord T/R Assy)	28-150064-11, 28-150064-13		1 200 FH	1 200 FH	1 200 FH
Tail Rotor Spindle (4.4 in. cord T/R Assy)	28-150074-11, 28-150074-13		1 200 FH	1 200 FH	1 200 FH
Tail Rotor Blade Grip	28-150044-1, 28-150044-3		6 200 FH	6 200 FH	6 200 FH
Tail Rotor Blade Grip	28-150013-1		3 100 FH	3 100 FH	3 100 FH



Component Name	Part Number (P/N)	Old Part Number	F-28C/F-28C-2/280C		
			MTOW = 2200 lbs	MTOW = 2350 lbs	MTOW = 2600 lbs
Coupling, Tail Rotor Driveshaft	28-13609-1		1 200 FH	1 200 FH	1 200 FH
Coupling, Flex Pack Assembly	28-01041-3	A005-1992 (Dana)	1 200 FH	1 200 FH	1 200 FH
Tail Rotor Gear set	ECD074-1, ECD074-2	XR-137-2YL, XR-137-2R	1 200 FH	1 200 FH	1 200 FH
Tail Rotor Gear set	ECD100-1, ECD100-2, ECD100-1A, ECD100-2A, ECD100-1B, ECD100-2B		1 200 FH	1 200 FH	1 200 FH
Tail Rotor Gear set	ECD101-1, ECD101-2		1 200 FH	1 200 FH	1 200 FH
Drag Link	28-14283-1		+	+	13 750 FH
Main Rotor Spindle	28-14282-11		19 000 FH	19 000 FH	19 000 FH
Thrust Bearing (Lamiflex)	28-14320-12, 28-14320-15		ΔΔ	ΔΔ	ΔΔ
Tachometer Drive Belt (O-Ring)	NAS1611-333		Δ	Δ	Δ
**	On Condition when used with grease fitting				
+	No Time limit. Remove Component on condition per Maintenance Manual inspection criteria.				
++	Right hand installations only (28-16300); left hand installations are on condition.				
ΔΔ	Retire from service 5 calendar years from date of manufacture all Lamiflex bearings serial number 5997 and prior. Retire from service 5 calendar years from date of installation* or 8 calendar years from date of manufacture, whichever occurs first, all Lamiflex bearings serial numbers 5998 and subsequent. *Note: Date of installation is defined as the date the Lamiflex bearing packaging is opened.				
Δ	Retire from service 5 calendar years from date of installation or package opening, or 8 years from date of manufacture, whichever occurs first.				
N/A	Not approved for installation.				

