

AIRWOLF AEROSPACE, LLC
Middlefield, OH

Instructions for Continued Airworthiness

Report # AA-206-ICA

Revision F

02/04/2020

For

Airwolf Replacement PMA Main Rotor Blade
Tension-Torsion Strap Assemblies
On

Bell Helicopter Textron
206 & OH-58 Model Series Rotorcraft

AML STC SR02964CH

Log of Revisions			
Revision	Revision Description	Author	Revision Date
IR	Initial Release	Joe McGarvey	November 4, 2010
A	Changed from Assessment Report to an ICA	Joe McGarvey	February 28, 2011
B	Added: List of Effective Pages, Definition of Abbreviations List, References to "L" Model Series, Chapter 6 Installation & Removal, Renumbered all Pages	Joe McGarvey	March 14, 2011
C	Added OH-58 Models to Cover; to Chap, 1, Section 6; Chap.5; & Chap. 6.	Joe McGarvey	April 9, 2012
D	Added TM 55-1520-228-23-1 to Chap. 1, Sections 6 & 10; References to TM 55-1520-228-23-1 to Chapters 5 & 6.	Joe McGarvey	June 19, 2012
E	Chapter 4, Airworthiness Limitations Added Rev. A & Rev B Assemblies with 24-month & 36-months Calendar Life Limitations, respectively from date of installation	Joe McGarvey	October 17, 2012
F	Updated report into a new format and; i) Replaced Log of Revision page with Log of Revision table ii) Replaced List of Effective Pages with Table of Content page. iii) Added Chapter 2 and 3 as reserved iv) Added Log of Revision page to Chapter 4: ALS v) Added P/N: AA-206-011-154-105 & AA-206-011-154-107 Revision C to Chapter 4 with same limitations as AA 206-011-154-105 & AA-206-011-154-107 Revision B.	Karol Mordasiewicz	February 4, 2020

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CHAPTER 1 INTRODUCTION

1. **Type Design Change:** This type design change consists of the installation of Airwolf Aerospace, LLC Tension-Torsion Strap assemblies as a direct replacement for the Bell Helicopter Tension-Torsion Strap assemblies.
2. **Scope:** The scope of this Instruction for Continued Airworthiness (ICA) focuses exclusively on Maintenance, Inspection & Airworthiness Limitations associated with this FAA-approved type design change.
3. **Purpose:** The purposes of this ICA are to apprise Owner/Operators who have modified their rotorcraft pursuant to this type design change: (1) When, where & how to inspect; and (2) When and under what conditions to replace the T-T Strap Assemblies to assure continued operational safety.
4. **Arrangement:** This ICA is a single document comprised of four (4) **Chapters:**
Chapter 1: Introduction
Chapter 2: Reserved
Chapter 3: Reserved
Chapter 4: Airworthiness Limitations
Chapter 5: Inspection Requirements & Overhaul Schedule
Chapter 6: Installation & Removal
5. **Superseded Documents:** This ICA does not supersede any Bell Helicopter Textron Maintenance document. This ICA reiterates that Owner/Operators who modify their rotorcraft with Airwolf Aerospace, LLC T-T Strap Assemblies must life-manage their rotorcraft in accordance with the inspection requirements and Airworthiness Limitations cited in this ICA.
6. **Applicability:** This ICA is applicable to the following Bell Helicopter Textron Model Rotorcraft: 206A, 206A-1, 206B, 206B-1, 206L, 206L-1, 206L-3, 206L-4, OH-58A, OH-58A+ & OH-58C .
7. **Precautions:** There are no precautionary notes associated with this type design change other than those stated in Chapters 4 & 5 of this ICA.
8. **Referenced Publications:**
 1. Airworthiness Limitations, Chapter 4, Rev. 6 dated Dec. 7, 2009; and Chapter 5, Rev 9 dated 9 dated Sept. 27, 2010 of Bell Helicopter Textron Report BHT- 206A/B-Series-MM-1, Rev. 9 Dated Sept .27, 2010.
 2. Component Repair & Overhaul Manual, Vol.3, Main Rotor/Main Rotor Drive System Rept. BHT-206B3- CR&O-3, Rev.3, Jan. 10, 2011 Chap. 62, Sect. 62-15, Para. 6.a. thru 6.k.
 3. Component Repair & Overhaul Manual, Rept. BHT-206L- CR&O-3, Rev.3, Jan. 10,

- 2011 Chap. 62, Section 62-00-00 Page 54, Para. 15a. thru 1Sj. Page 101, Para. 5a. thru 5c.
4. Maintenance Manual, Vol. 1, General Information, Rept. BHT-206L-MM-1, Rev. 33, dated Feb. 25, 2011. Chap. 5, Section 5-53,
 5. Maintenance & Overhaul Instruction, Rept. BHT-206A/B- M&O, Section II Overhaul, Part 2, Page 2-56, Para. 2-38, Rev. 36, dtd. 7/31/84 Page 2-81, Para. 2-44c, Rev. 33, dtd. 3/31/84
 6. Technical Manual, Aviation Unit and Intermediate Maintenance Manual: Army OH-58A and OH-58C Helicopters TM 55-1520-228-23-1, Change 30,
9. **Distribution:** Airwolf Aerospace, LLC. will maintain a list of all Bell Helicopter Owner/Operators that have purchased its T-T Strap Assemblies and should the need arise to modify this ICA, the revision will be sent to all Owner/Operators. For Owner/Operators having internet access, the latest revision to this ICA will be available for downloading from the Airwolf Aerospace, LLC website: <http://www.AirwolfAerospace.com>

10. **List of Abbreviations:**


Abbreviation Definition

DER	Designated Engineering Representative
ICA	Instructions for Continued Airworthiness
LLC	Limited Liability Corporation
Rev	Revision
RPM	Revolutions Per Minute
T-T	Tension-Torsion
TM	Technical Manual

CHAPTER 2: Reserved

CHAPTER 3: Reserved

CHAPTER 4 AIRWORTHINESS LIMITATIONS

Log of Revisions: CHAPTER 4 AIRWORTHINESS LIMITATIONS			
Revision	Revision Description	FAA Approved by	FAA Approval Date
IR	Initial Release	N/A	N/A
A	Refer to Log of Revision for ICA	N/A	N/A
B	Refer to Log of Revision for ICA, Initial STC02964CH Issuance May 12, 2011	Manager, Airframe Branch, ANM-120L	March 21, 2011
C	Refer to Log of Revision for ICA, no change to Chapter 4	N/A	N/A
D	Refer to Log of Revision for ICA, no change to Chapter 4	N/A	N/A
E	Chapter 4, Airworthiness Limitations Added Rev. A & Rev B Assemblies. with 24-month & 36-months Calendar Life Limitations, respectively from date of installation	Manager, Airframe Branch, ACE-116C	November 19, 2012
F	Updated document into a new format, added P/N: AA-206-011-154-105 & AA-206-011-154-107 Revision C		04 March 2020

Airworthiness Limitations:

P/N: AA-206-011-154-105 & AA-206-011-154-107 REVISION A:

- 1) 1200 flight hours from date of installation OR
- 2) 24 Months from date of installation Whichever occurs first

P/N: AA-206-011-154-105 & AA-206-011-154-107 REVISION B, and
AA-206-011-154-105 & AA-206-011-154-107 REVISION C

- 1) 1200 flight hours from date of installation OR
- 2) 36 Months from date of installation Whichever occurs first

The Airworthiness Limitations Section is FM approved and specifies inspections and other maintenance required under 14CFR 43.16 and 14CFR 91.403 of the Federal Aviation Regulations unless an alternative program has been FM approved.

FAA APPROVED BY:



Signature

Date 04 March 2020

Brian Hanley

Printed Name

Airframe & Administrative Services Section, AIR-7C1
FAA - Chicago ACO Branch

CHAPTER 5 INSPECTION REQUIREMENTS & OVERHAUL SCHEDULE**1) Inspection Requirements****For 206A , 206B Models:**

Tension- Torsion Strap Assemblies are subject to a conditional inspection following a Main Rotor Overspeed (RPM 114% or Greater) Reference (1) of the Introduction of this ICA- Bell Helicopter Textron Report BHT-206A/B- Series-MM-1, "Maintenance Manual Volume 1 General Information", Rev. 9, dated Sept. 27, 2010, Chapter 5, Paragraphs 5-32 and 5-36.

During Main Rotor Hub overhaul, perform Normal inspection of Tension-Torsion Strap Assemblies as specified by Reference (2) of the Introduction to this ICA- Bell Helicopter Report BHT-206B3-CR&O-3, "Component Repair and Overhaul Manual, Vol. 3, Main Rotor/Main Rotor Drive System ", Rev. 3, dated Jan. 10, 2011, Chapter 62, Section 62-15, Paragraphs 6.a. thru 6.k. inclusive.

When a Conditional inspection for Main Rotor Overspeed has occurred, the Tension-Torsion Strap Assemblies must be replaced as specified by Reference (1) of the Introduction to this ICA- Bell Helicopter Report BHT-206A/B-Series- MM-1," Maintenance Manual, Vol. 1, General Information" , Rev.9, dated Sept. 9, 2010, Chapter 5, Paragraph 5-36, page 89.

For OH-58 Models:

Inspect Tension-Torsion Strap Assemblies for defects as prescribed by TM 55- 1520-228-23-1, Change 30, dated June 13, 2003 Para. 5-34a (1) thru (8) inclusive.

For 206L Model Series:

Tension-Torsion Strap Assemblies are subject to a Conditional inspection following a Main Rotor Overspeed (RPM 114% or Greater) Reference (4) of the Introduction of this ICA- Bell Helicopter Textron Report BHT-206L-MM-1, "Maintenance Manual, Vol. 1, General Information", Rev. 33, dated Feb. 25, 2011 Chapter 5, Section 5-54, page 173.

During Main Rotor Hub overhaul, perform Normal inspection of Tension-Torsion Strap Assemblies as specified by Reference (3) of the Introduction of this ICA- Bell helicopter Report BHT-206L-CR&O-3, "Component Repair and Overhaul Manual, Vol. 3, Main Rotor/Main Rotor Drive System", Rev. 3, dated Jan. 10, 2010 , Chapter 62, Section 62-32, Paragraph 13a, pages 67 & 68.

When a Conditional inspection for Main Rotor Overspeed has occurred, the Tension-Torsion Strap Assemblies must be replaced as specified by Reference (4) of the Introduction of this ICA- Bell Helicopter Textron Report BHT-206L-MM-1 "Maintenance Manual, Vol.1, General Information", Rev. 33, dated Feb. 25, 2011 Chapter 5, Paragraph 5-53, page 165.

2) Overhaul Schedule

The Tension-Torsion Strap Assemblies are not to be overhauled.

CHAPTER 6. INSTALLATION & REMOVAL

For 206A , 206B & Models:

Disassemble and remove T-T Strap Assemblies in accordance with Bell Helicopter Report BHT-206A/B-M&O, "Maintenance & Overhaul Instruction, Section II Overhaul, Part 2" Para. 2-38, Page 2-56, Rev. 36, dated July 31, 1984.

Install T-T Strap Assemblies in accordance with Bell Helicopter Report BHT-206A/B-M&O, "Maintenance & Overhaul Instruction, Section II Overhaul, Part 2" Para. 2-44c, Page 2-81, Rev. 33, dated March 31, 1983.

For OH-58 Models:

Disassemble and remove T-T Strap Assemblies in accordance with TM 55-1520-228-23-1, Change 30, dated June 13.2003 Paragraph 5-33 d(1), d(2) & d(3).

Install T-T Strap Assemblies in accordance with TM 55-1520-228-23-1, Change 30, dated June 13, 2003 Paragraphs 5-36c., d., & e., and 5-13c. (4).

For 206L Model Series:

Disassemble and remove T-T Strap Assemblies in accordance with Bell Helicopter Report BHT-206L-CR&O-3, Rev.3, dated Jan. 10, 2011" Component Repair & Overhaul Manual" Chap. 62, Section 62-00-00, Page 54, Para. 15a. thru 15j.

Install T-T Strap Assemblies in accordance with Bell Helicopter Report BHT-206L-CR&O-3, Rev.3, dated Jan. 10, 2011, "Component Repair & Overhaul Manual" Chap. 62, Section 62-00-00, Page 101, Para. 5a. thru 5c.