

**AIRWOLF AEROSPACE, LLC
Middlefield, OH**

Instructions for Continued Airworthiness

For

**Airwolf Replacement PMA Main Rotor Blade
Tension-Torsion Strap Assemblies
on
Bell Helicopter Textron
206 & OH-58 Model Series Rotorcraft**

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Log of Revisions

Revision Number	Revision Description	Airwolf Aerospace, LLC Approved By	Revision Date
IR	Initial Release	Joe McGarvey, DER	Nov. 4, 2010
A	Changed from Assessment Report to an ICA	Joe McGarvey, DER	Feb. 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, DER	Mar. 14, 2011
C	Added OH-58 Models to Cover; to Chap, 1, Section 6; Chap.5; & Chap. 6.	Joe McGarvey, DER	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, DER	June 19,2012
E	Chapter 4, Airworthiness Limitations 36-months from date of installation was 24 months	Joe McGarvey, DER	Oct. 17,2012

List of Effective Pages

	<u>Page</u>	<u>Revision Level</u>	<u>Date of Revision</u>
1,	Cover	D	06/19/12
2,	Log of Rev	D	06/19/12
3,	List Effective Pages	D	06/19/12
4,	Chapter 1	D	06/19/12
5,	List of Abbreviations, Definition	D	06/19/19
6,	Chapter 4	E	10/17/12
7,	Chapter 5	D	06/19/12
8,	Chapter 6	D	06/19/12

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 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 Superseded Documents:** This ICA does not supersede any Bell Helicopter Textron Maintenance document.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 15j. 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:

<u>Abbreviation</u>	<u>Definition</u>
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 4 AIRWORTHINESS LIMITATIONS

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

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

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

The Airworthiness Limitations Section is FAA 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 FAA approved.

FAA Approved



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Date: 11/19/2012

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.