

PR-407BF-120M  
Rev. 2, 12/23/05

PARAVION TECHNOLOGY, INC.  
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**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**  
407BF-100 MOUNT INSTALLATION

BELL MODEL 407 HELICOPTERS

Cover  
PR-407BF-120M  
Rev. 2, 12/23/05

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**RECORD OF REVISIONS**

<b>REVISION NO.</b>	<b>ISSUE DATE</b>	<b>DATE INSERTED</b>	<b>BY</b>
ORIGINAL	11/30/99		
1	01/02/01		
2	01/09/06		

**REVISION CONTROL PROCEDURE**

Revisions to this document are mailed to owner of record. Before inserting a change, ensure this manual is correct. Check the existing List of Effective Pages in this manual to ensure that all prior revisions are inserted. **Do not insert this revision if prior revisions are not inserted.**

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APPENDIX A REMOVED, 12/23/05, PLEASE REFER TO AC43.13-1 AS REVISED

### **AIRWORTHINESS LIMITATIONS**

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

**No airworthiness limitation associated with this type design change.**

**This system has no life-limited components.**

<b>REVISION</b>	<b>DATE</b>	<b>APPROVED</b>
N/C	02/23/00	RONALD MAY
1	01/18/01	Roger A. Caldwell
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## **CHAPTER 1 - DESCRIPTION**

The 407BF-100 Mount Installation is comprised of the following:

- 407BF-150 Mount & Clevis Installation
- 407BF-250 Clevis Installation

The 407BF-150 and 407BF-250 Mount & Clevis Installations are located outside the helicopter, (3) three on the nose and (3) three on the rear stabilizer. This installation is provided for ground handling purposes.

System Weight: 0.5 lbs. (6 locations combined)

## **CHAPTER 2 - INSPECTION AND MAINTENANCE**

It is the objective of this inspection and maintenance procedure to ensure that component installations are secure. Table I should be followed during Annual/300 Hour Inspections for system airworthiness. All loose and/or replaced fasteners should be torqued per standardized torque values as shown in AC43.13-1 as revised.

### **2.1 Mount & Clevis Installation**

- 2.1.1 Inspect all mounts for indications of stress, corrosion and cracking. Any components with cracks should be removed and sent to Paravion Technology, Inc.
- 2.1.2 Inspect all fasteners installations. Replace all worn fasteners and/or fittings. Torque all fasteners per AC43.13-1 as revised..
- 2.1.3 Inspect and replace all worn self-locking nuts. Torque replacement nuts per AC43.13-1 as revised.

## **CHAPTER 3 - COMPONENT REMOVAL AND REPLACEMENT**

NOTE: Adjust aircraft Weight and Balance data (Reference: Table II), when components are removed or installed.

### **3.1 Clevis & Mounts Removal**

- 3.1.1 Loosen and remove the fasteners from the mounts/clevis.
- 3.1.2 Remove the mounts/clevis.

### **3.2 Mounts & Clevis Installation**

- 3.2.1 Install mounts/clevis and torque all fasteners reference AC43.13-1 as revised.

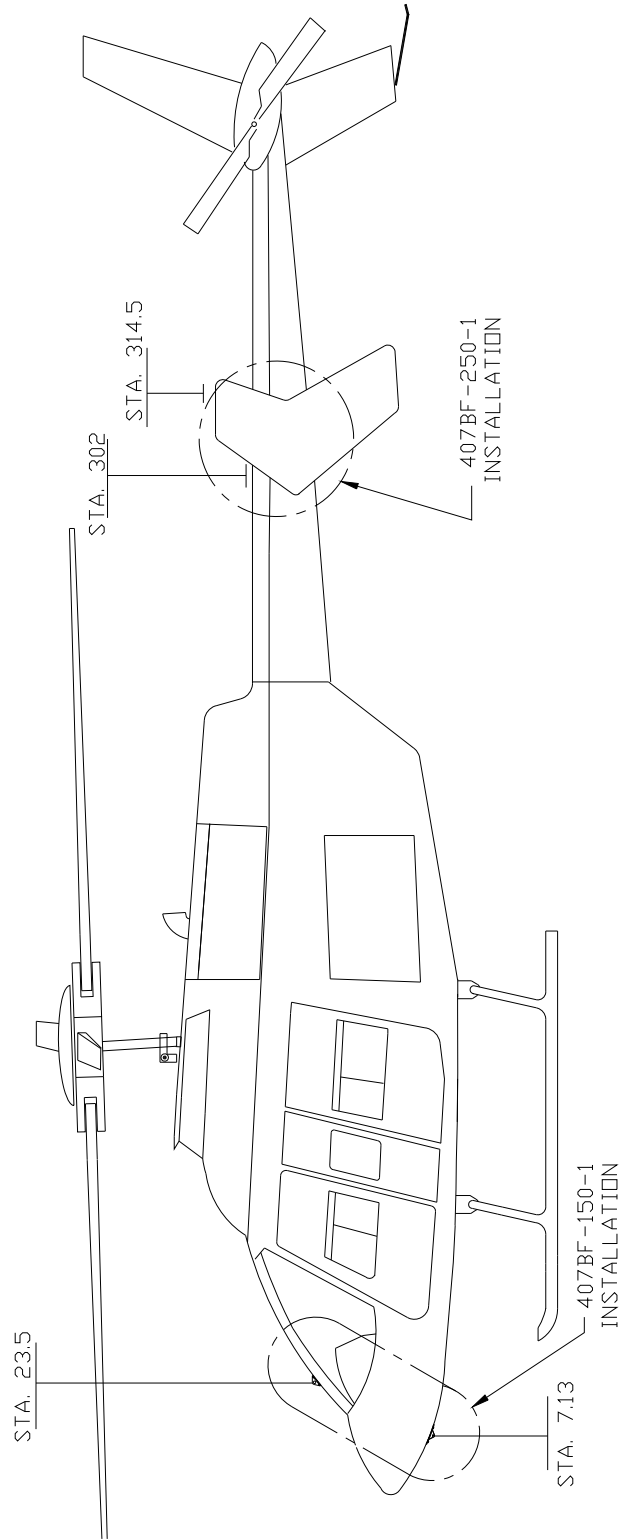


**TABLE I**

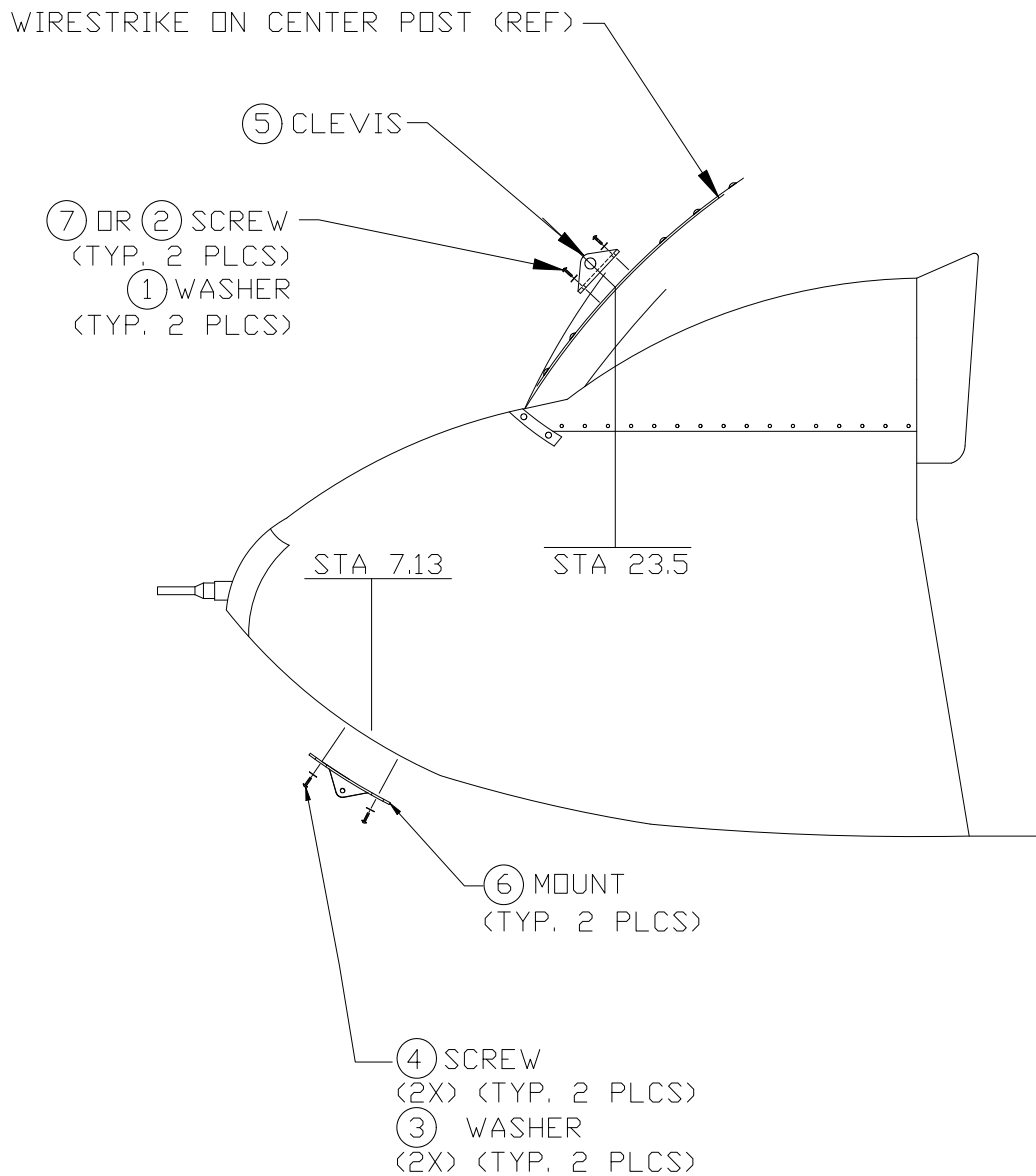
<b>ANNUAL/300 HOUR INSPECTION</b>	
<b>ITEM/SYSTEM</b>	<b>INSPECTION REQUIREMENT</b>
MOUNT & CLEVIS INSTALLATION (407BF-150)	INSPECT FOR INDICATIONS OF STRESS, CRACKS, AND CORROSION. REPLACE IF NECESSARY. INSPECT AIRCRAFT STRUCTURE AT ATTACHMENT POINTS.
CLEVIS INSTALLATION (407BF-250)	INSPECT FOR INDICATIONS OF STRESS, CRACKS, AND CORROSION. REPLACE IF NECESSARY. INSPECT AIRCRAFT STRUCTURE AT ATTACHMENT POINTS.
Report structural discrepancies to Paravion Technology, Inc. Replacement parts are available.	

**TABLE II**

<b>WEIGHT AND BALANCE DATA; 407BF-100 INSTALLATION</b>					
<b>ITEM</b>	<b>WEIGHT (lb)</b>	<b>407</b>			
		<b>Longitudinal</b>		<b>Lateral</b>	
		<b>F.S. (in)</b>	<b>Moment (in-lb)</b>	<b>B.L. (in)</b>	<b>Moment (in-lb)</b>
Clevis 407BF-2100-1	0.060	302	18.1	6.5	0.39
Clevis 407BF-2100-1	0.060	302	18.1	-6.5	-0.39
Clevis 407BF-2100-2	0.068	314.5	21.4	-6.5	-0.44
Clevis 407BF-2100-3	0.092	23.5	2.2	0	0
Mount 407BF-2000-1	0.091	7.13	0.7	4.5	0.4
Mount 407BF-2000-1	0.091	7.13	0.7	-2.68	-0.3

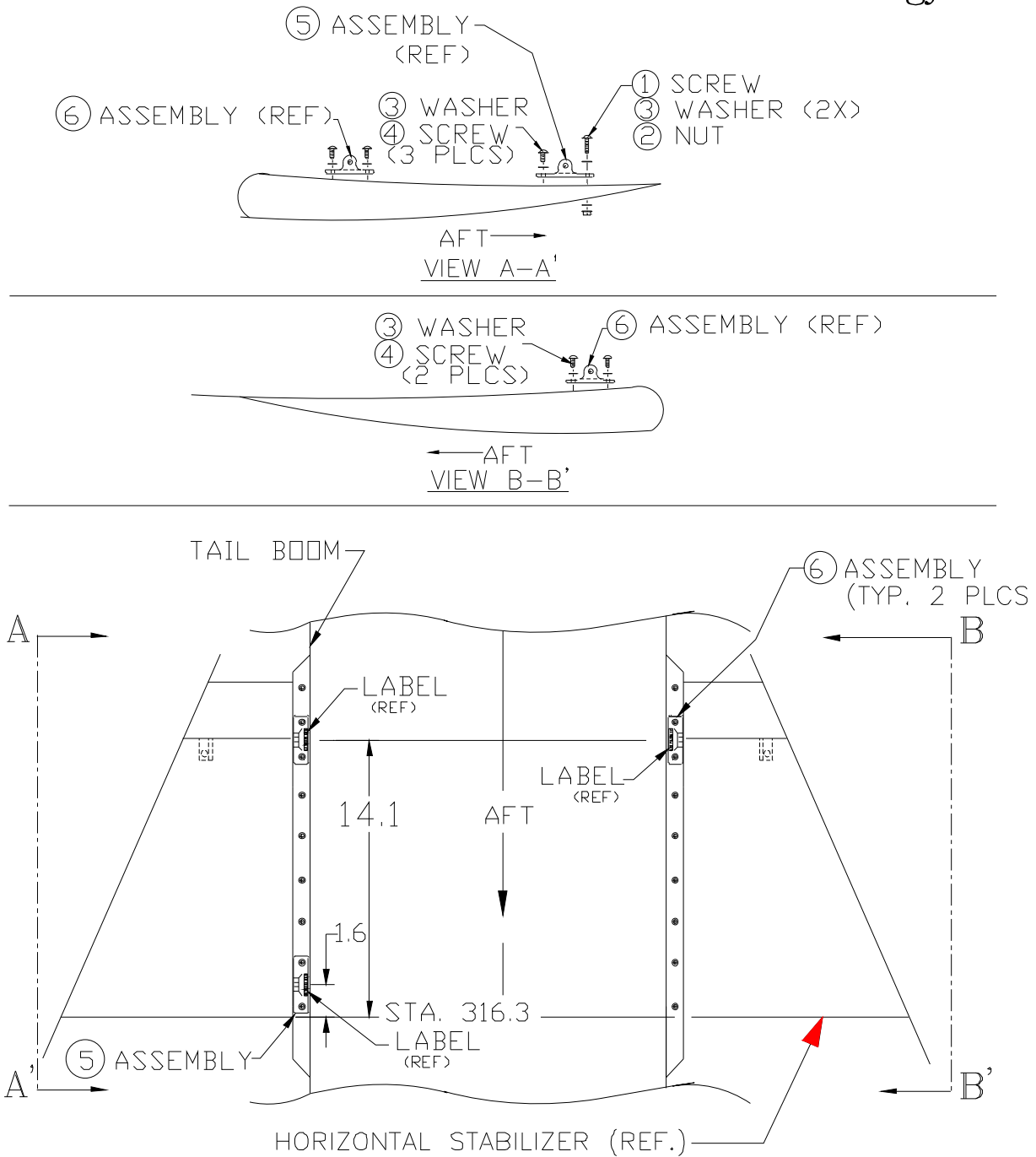


**Figure 1: Mounts Configuration**



**Figure 2: Forward Mounts Installation**

ITEM NO	PN	DESCRIPTION	QTY	TYP
1	NAS1149DN816J	WASHER	2	EA
2	MS27039-08-15	SCREW (ALT)	2	EA
3	NAS1149F0332P	WASHER	4	EA
4	MS27039-1-10	SCREW	4	EA
5	407BF-2100-3	ASSEMBLY	1	EA
6	407BF-2000-1	MOUNT	2	EA
7	MS27039-08-13	SCREW	2	EA



**Figure 3: Aft Mounts Installation**

ITEM NO	PN	DESCRIPTION	QTY	TYP
1	MS27039-1-13	SCREW	1	EA
2	MS21042L3	NUT	1	EA
3	NAS1149D0316J	WASHER	7	EA
4	MS27039-1-08	SCREW	5	EA
5	407BF-2100-2	ASSEMBLY	1	EA
6	407BF-2100-1	ASSEMBLY	2	EA