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INSTRUCTIONS
for
CONTINUED AIRWORTHINESS
for
FOLDING MAINTENANCE STEP

P/N 407-536-101 (L/H side kit)

P/N 407-536-102 (R/H side kit)

for

Bell 407 Model Helicopters

Report No. AA-00126

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LOG OF REVISIONS

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LIST OF EFFECTIVE PAGES

LIST OF REVISIONS

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These Instructions for Continued Airworthiness (ICA), except for the Airworthiness Limitation Section, have been reviewed and found to comply with the applicable requirements of Appendix A to the Federal Aviation Regulations Part 27

FAA Acceptance Manuel S. Lopez Date 12/01/00
Fort Worth Aircraft Evaluation Group

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1.0 INTRODUCTION

These instructions contain the information necessary to inspect and maintain the **AERONAUTICAL ACCESSORIES, INC. FOLDING MAINTENANCE STEP** (407-536-101, L/H side kit) or 407-536-102 (R/H side kit) on Bell 407 Model Helicopters.

1.1 DISTRIBUTION

These instructions are provided with each **FOLDING MAINTENANCE STEP**. Any airworthiness or flight safety revisions will be immediately sent to all affected **FOLDING MAINTENANCE STEP** owners.

2.0 DESCRIPTION

The **AERONAUTICAL ACCESSORIES, INC. FOLDING MAINTENANCE STEP** provides an extra measure of safety during pre-flight and maintenance operations. The **FOLDING MAINTENANCE STEP** provides a sturdy step and allows the pilot or mechanic to more safely stand/climb on the aircraft during inspection.

3.0 MAINTENANCE INSTRUCTIONS

3.1 PRE-FLIGHT INSPECTION

The **FOLDING MAINTENANCE STEP** shall receive a Pre-flight visual inspection. Inspect for proper installation of hardware, any unusual wear patterns, corrosion and/or damage (scratches, nicks, dents, cracks). Ensure the damage limits presented in Table 1 are not exceeded for the **FOLDING MAINTENANCE STEP**. Replace parts as required.

NOTE

Removal of **FOLDING MAINTENANCE STEP** from helicopter is not required for inspection. If any damage is noted during the Pre-flight Inspection, refer to Section 3.3 Repair or Section 4.0 Troubleshooting Information.

The Pre-flight inspection consists of the following items:

1. Inspect the Folding Maintenance Step for nicks, scratches, dents, corrosion or cracks.

NOTE

The indications of corrosion are 1) corrosion deposits (a white or gray powder on aluminum or rust colored deposits on steel), 2) pits in the aluminum or steel surface, 3) blisters, bulging or flaking of protective coatings.

2. Check the folding function of the step.
3. Inspect the attaching fasteners for security

TABLE 1: DAMAGE AND REPAIR LIMITS

COMPONENT	MAXIMUM ALLOWABLE DAMAGE AND REPAIR LIMITS	
	SCRATCHES/NICKS/DENTS	CRACKS
Folding Maintenance Step - Base	To a depth of .025"	None
Folding Maintenance Step - Step	To a depth of .025"	None

3.2 ANNUAL INSPECTION

The **FOLDING MAINTENANCE STEP** shall receive an Annual Inspection consisting of the following items:

1. Complete the Pre-flight inspection listed above.
2. Check the torque value on the Folding Maintenance Step attaching hardware and adjust as required to 50-70 in/lbs.
3. Inspect Baggage Door Retention Strap for tears or frays and check attaching fasteners for security, replace if necessary.
4. Utilize the Inspection Record provided in Appendix A to document Inspection completion.

3.3 REPAIR

Repair scratches, nicks, dents and corrosion as follows:

1. Lightly polish the affected area using Scotch-Brite pads. Ensure the limits presented in Table 1 are not exceeded. Take care to remove as little of the component protective coatings as possible.
2. For the aluminum components, after corrosion or damage repair: Clean repaired area with isopropyl alcohol; brush Alodine bare aluminum areas per MIL-C-5541 or equivalent, and paint area to match existing finish.
3. For the Steel components, after corrosion or damage repair: Prime with a rust prohibitive primer and paint area to match existing finish.

4.0 TROUBLESHOOTING INFORMATION**TABLE 2: TROUBLESHOOTING GUIDE** (See Figure 1)

PROBLEM	PROBABLE CAUSE	REMEDY
Folding Maintenance Step is loose or vibrates.	Fasteners loose or missing.	Check Folding Maintenance Step fastening hardware for security, replace as necessary.
	Screw Bottomed out in insert.	Check torque on fasteners, if loose may require additional washers.
	Sealant is deteriorated.	Remove Folding Maintenance Step and replace sealant (MIL-S-8802 or equivalent) and reinstall Folding Maintenance Step.
	Pin is Loose.	Contact Aeronautical Accessories, Inc. for replacement.
	Spring is bent out of shape.	Inspect spring, if bent contact Aeronautical Accessories, Inc. for replacement.
	Cracks or other damage in Folding Maintenance Step around fasteners.	Check Folding Maintenance Step condition with damage and repair limits. Repair or replace if necessary.
Folding Maintenance Step does not fold properly.	Pin is bent.	Inspect pin, if bent contact Aeronautical Accessories, Inc. for replacement.
	Spring is bent out of shape.	Inspect spring, if bent contact Aeronautical Accessories, Inc. for replacement.

5.0 REMOVAL AND REPLACEMENT INFORMATION

(Refer to Table 3 and Figure 1 for part identification.)

5.1 REMOVAL - FOLDING MAINTENANCE STEP

1. Remove the six screws (5), and the six washers (6). Retain hardware for reinstallation.

2. Remove the Folding Maintenance Step (1 or 2).

NOTE

Use of a heatgun to soften sealant may facilitate removal.

5.2 INSTALLATION - FOLDING MAINTENANCE STEP

1. Coat under side of Folding Maintenance Step (1 or 2) with sealant (MIL-S-8802 or equivalent).
2. Install the Folding Maintenance Step (1 or 2) with the six screws (5) and six washers (6). Torque screws to 50-70 in/lbs.

6.0 STRUCTURAL FASTENER DATA

For hardware identification see Table 3 and Figure 1.

7.0 SPECIAL TOOLS NEEDED

Torque wrench

8.0 RECOMMENDED OVERHAUL PERIODS

No component overhaul required for this type design change.

9.0 AIRWORTHINESS LIMITATIONS

No airworthiness limitations associated with this type design change.

10.0 WEIGHT AND BALANCE

Weight Change: 2.0 lbs. (each)

Station: 145.18

Lateral Arm: ± 28.00 (one side only)
0.0 (both sides)

11.0 REVISION

A Log Of Revision section is included in these instructions and will be utilized to document all changes. Change recommendations should be submitted to:

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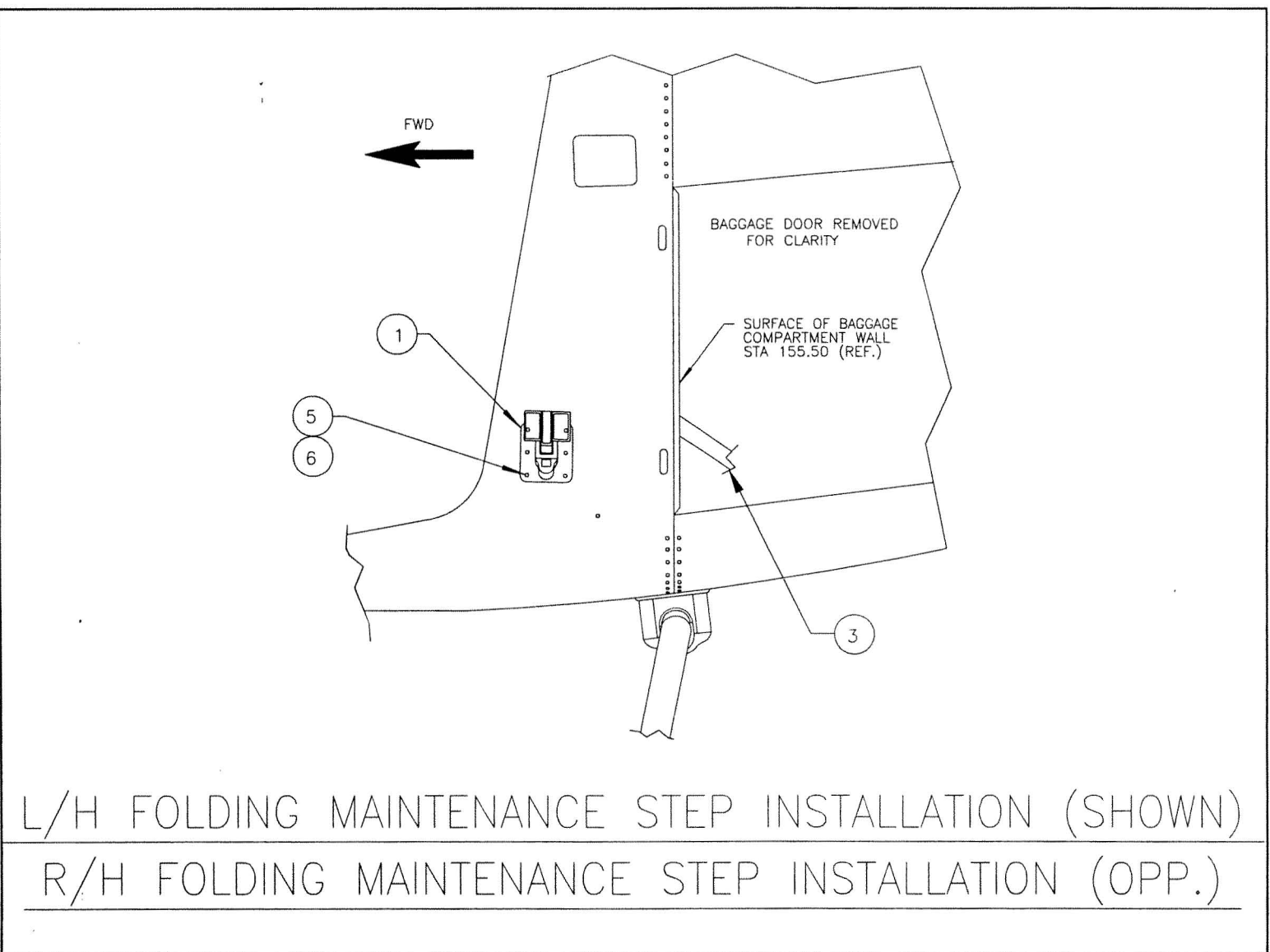
AERONAUTICAL ACCESSORIES, INC.

12.0 PARTS BREAKDOWN

Table 3 contains Parts Breakdown data for the **FOLDING MAINTENANCE STEP** as illustrated in Figure 1.

**TABLE 3: FOLDING MAINTENANCE STEP (407-536-101/-102)
PARTS BREAKDOWN**

INDEX NUMBER	PART NUMBER	ITEM NAME	QTY -101	QTY -102
1	407-535-101	Folding Maintenance Step Assy. L/H	1	
2	407-535-102	Folding Maintenance Step Assy. R/H		1
3	206-468-108	Baggage Door Retention Strap Kit		1
	206-468-001 (1) 206-468-002 (1) 099-009-004 (1)	Retention Strap Doubler Assembly Footmans Loop		
4	495SF428-16-6 alt.: 495SF-428-16-4	Insert	6	6
5	MS27039-4-11	Screw	6	6
6	NAS1149D0416J alt.: AN960JD416L	Washer	6	6



APPENDIX - A

Annual Inspection Record

Work Order Number: _____
Registration Number: _____
Serial Number: _____
Total Time: _____
Date: _____

Inspect the FOLDING MAINTENANCE STEP for the following in accordance with Section 3.2 ANNUAL INSPECTION.

- _____ 1. Inspect the Folding Maintenance Step for nicks, scratches, dents, corrosion or cracks.

NOTE

The indications of corrosion are 1) corrosion deposits (a white or gray powder on aluminum or rust colored deposits on steel), 2) pits in the aluminum or steel surface, 3) blisters, bulging or flaking of protective coatings.

- _____ 2. Check the folding function of the step.
- _____ 3. Inspect the attaching fasteners for security.
- _____ 4. Check the torque value on the attaching hardware and adjust as required to 50-70 in/lbs.
- _____ 5. Inspect Baggage Door Retention Strap for tears or frays and check attaching fasteners for security.

Signature _____ A & P No. _____

Signature _____ Inspector