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INSTRUCTIONS
for
CONTINUED AIRWORTHINESS
for
BAGGAGE COMPARTMENT PROTECTORS
P/N 407-454-001
P/N 407-454-002
on
BELL 407 MODEL HELICOPTERS

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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 Cruz Date 2/26/02
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. BAGGAGE COMPARTMENT PROTECTORS** (P/N 407-454-001 and P/N 407-454-002) on Bell 407 Model Helicopters.

1.1 DISTRIBUTION

These instructions are provided with each **BAGGAGE COMPARTMENT PROTECTOR** kit. Any airworthiness or flight safety revisions will be immediately sent to all affected owners.

2.0 DESCRIPTION

The **AERONAUTICAL ACCESSORIES, INC. BAGGAGE COMPARTMENT PROTECTORS** provide durable lightweight protection for Bell 407 baggage compartments. The Baggage Compartment Protectors are composed of the Bulkhead Protector Kit (407-454-001) and the Aux Tank Protector Kit (407-454-002). Made from Kydex, they allow safe, dent and gouge-free cargo loading and unloading. The protectors are also chip resistant, will not absorb oil or moisture and are easily cleaned.

3.0 MAINTENANCE INSTRUCTIONS

3.1 PREFLIGHT CHECK

Check **BAGGAGE COMPARTMENT PROTECTORS** for security of installation, any unusual wear patterns and/or damage. Refer to Table 2 (Damage and Repair Limits).

NOTE

Removal of the **BAGGAGE COMPARTMENT PROTECTORS** from helicopter is not required for the Preflight Check. If any damage is noted, refer to Section 3.3 Repair or Section 4.0 Troubleshooting.

TABLE 1: STANDARD TORQUE VALUES

Fastener Size	Torque (in-lbs)
10-32	12-15

TABLE 2: DAMAGE AND REPAIR LIMITS

COMPONENT	MAXIMUM ALLOWABLE DAMAGE AND REPAIR LIMITS (Damage may be repaired as noted in Section 3.3 Repair, if it does not exceed these limits.)	
	SCRATCHES/NICKS/DENTS and CORROSION	CRACKS
Protector (Kydex) (Item # 1.1 & 2.1)	To a depth of .100"	Cracks of less than 25% length of part require no repair. Cracks of greater than 25% length of part require repair.
Cover Plate (Kydex) (Item # 1.2)	To a depth of .100"	None

3.2 ANNUAL INSPECTION

The **BAGGAGE COMPARTMENT PROTECTORS** shall receive a 600 Hour or Annual Inspection, whichever comes first, consisting of the following items:

1. Inspect the Baggage Compartment Protectors for scratches, dents, cracks, or deformation. Refer to Table 2 (Damage and Repair Limits).
2. Inspect the Baggage Compartment Protectors for security. Refer to Table 1 for Standard Torque Values.
3. Utilize the Inspection Record in Appendix A to document Inspection completion.

3.3 REPAIR

Repair damage as follows:

1. For Cracks in Kydex exceeding 25% of the length of the part, apply a Kydex patch of the same thickness of the part and over-lapping the Crack by 2" where possible. Bond the patch to the back side of the part using Loctite 49504.
2. For scratches in Kydex up to .100", lightly polish the affected area using a Scotch-Brite pad. Clean the area with isopropyl alcohol and wipe dry with a nonabrasive cloth or paper.

3.4 CLEANING REQUIREMENTS

Any dirt, sand, or debris should be cleaned from the **BAGGAGE COMPARTMENT PROTECTORS** using a mild, nonabrasive soap. Wipe surfaces dry with a nonabrasive cloth or paper before cleaning agent evaporates.

3.5 ADJUSTMENTS

Adjustments of the **BAGGAGE COMPARTMENT PROTECTORS** should not be required after installation.

4.0 TROUBLESHOOTING INFORMATION

TABLE 3: TROUBLESHOOTING GUIDE

PROBLEM	PROBABLE CAUSE	REMEDY
Baggage Compartment Protectors are loose, vibrating, or damaged.	Aux Tank Protector Kit Hook Velcro (Item # 2.3) or Pile Velcro (Item # 2.2) has lost adhesion.	Remove and replace Velcro as needed.
	Bulkhead Protector Kit fasteners have come loose.	Check the torque of fasteners per Table 1. Retorque as necessary.
	Aux Tank Protector Kit or Bulkhead Protector Kit is damaged allowing inadvertent movement.	Check for cracks or other damage in accordance with Table 2. Repair parts in accordance with 3.3 Repair. Replace parts as required.
	Protectors have scratches, nicks, dents, cracks, or are deformed.	Evaluate condition of Kydex material for cracks and shape in accordance with Table 2- DAMAGE AND REPAIR LIMITS. Repair parts in accordance with 3.3 Repair. Replace parts as required.
	Cover Plate is damaged or missing.	Check for cracks or other damage in accordance with Table 2. Repair parts in accordance with 3.3 Repair. Replace parts as required.

5.0 REMOVAL AND REPLACEMENT INFORMATION

5.1 REMOVAL – BULKHEAD PROTECTOR KIT (407-454-001)

1. Remove fasteners (Item # 1.3) securing the Cover Plates (Item # 1.2) and retain hardware.
2. Remove the Bulkhead Protector (Item # 1.1) from the forward baggage compartment bulkhead and retain.
3. Removal complete.

5.2 REPLACEMENT – BULKHEAD PROTECTOR KIT (407-454-001)

1. Install the Bulkhead Protector (Item # 1.1) on the forward baggage compartment bulkhead with retained hardware. Torque fasteners per Table 1.
2. Installation complete.

5.3 REMOVAL – AUX TANK PROTECTOR KIT (407-454-002)

1. Remove the Aux Tank Protector (Item # 2.1) by firmly pulling the part from the aft side of the Auxiliary Fuel Kit located in the baggage compartment.
2. Removal complete

5.4 REPLACEMENT – AUX TANK PROTECTOR KIT (407-454-002)

1. Install the Aux Tank Protector (Item # 2.1) in the baggage compartment by firmly pressing, so that the Velcro adheres to the Auxiliary Fuel Tank.
2. Installation complete.

6.0 STRUCTURAL FASTENER DATA

For hardware identification refer to Table 4.

7.0 RECOMMENDED OVERHAUL PERIODS

No component overhaul required for this product.

8.0 AIRWORTHINESS LIMITATIONS

No airworthiness limitations associated with this product.

9.0 WEIGHT AND BALANCE**9.1 BULKHEAD PROTECTOR KIT (407-454-001)**

Weight:	+5.0 lbs.
Station:	155.5
Lateral Arm:	0.0

9.2 AUX TANK PROTECTOR KIT (407-454-002)

Weight: +4.0 lbs.
Station: 165.5
Lateral Arm: 0.0

10.0 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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11.0 PARTS LIST

The following table contains **current** Parts List data for the **BAGGAGE COMPARTMENT PROTECTORS (407-454-001, 407-454-002)**.

TABLE 4: BAGGAGE COMPARTMENT PROTECTORS PARTS LIST

BULKHEAD PROTECTOR KIT (407-454-001)

QTY -001	PART NUMBER	DESCRIPTION	ITEM NO.
1	407-454-121	Bulkhead Protector	1.1
2	407-454-125	Cover Plate	1.2
4	AN525-10R6	Screw	1.3

AUX TANK PROTECTOR KIT (407-454-002)

QTY -002	PART NUMBER	DESCRIPTION	ITEM NO.
1	407-454-123	Aux Tank Protector	2.1
160"	SJ3571 BLK LP	1" Black Pile Velcro	2.2
160"	SJ3572 BLK HK	1" Black Hook Velcro	2.3

APPENDIX – A

ANNUAL INSPECTION RECORD

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

Inspect the **BAGGAGE COMPARTMENT PROTECTORS** for the following conditions:

- _____ 1. Inspect the Baggage Compartment Protectors for scratches, dents, cracks, or deformation. Refer to Table 2 (Damage and Repair Limits).
- _____ 2. Inspect the Baggage Compartment Protectors for security. Refer to Table 1 for standard torque values.

Signature _____

A & P No. _____

Signature _____

Inspector _____