

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
FOR HELIFAB FLOOR PROTECTOR INSTALLATION**

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

FOR

**Helifab Floor Protector Installation
STC No: SR09870AC**

On

Bell Helicopter Model 206B, 206L, 206L-1, 206L-3, 206L-4 AND 407 ROTORCRAFT

**REPORT NUMBER
HF-CA-7-3**



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THIS MANUAL IS PREPARED TO PROVIDE INFORMATION, INSTRUCTIONS FOR CONTINUED AIRWORTHINESS FOR EQUIPMENT MANUFACTURED BY HELIFAB THAT MAY BE INSTALLED. ENSURE THAT THIS MANUAL IS USED FOR ONLY HELIFAB EQUIPMENT.

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Log of Revisions

REV No.	DESCRIPTION OF CHANGE	DATE ISSUED	DRAFTED BY
IR	Initial Release	06/15/2016	KDS &RMJ
A	Revise table 2 and add clarification notes	04/13/2017	KDS

List of Effective Pages

PAGE	REVISION No.	DATE
1 thru 9	IR	06/15/2016
1 thru 10	A	04/13/2017

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS FOR HELIFAB FLOOR PROTECTOR INSTALLATION

1. INTRODUCTION

The purpose of these Instructions for Continued Airworthiness (ICA), is to provide required procedures for maintaining continued airworthiness for Helifab's floor protector installation.

1.1. Revisions and Distribution

These instructions are provided with each floor protector installation kit. Any airworthiness or flight safety revisions will be sent to all who purchased the affected kits. A log of revisions is included in these instructions. Changes to this ICA are to be incorporated and are identified as follows:

Revised or extended text and inserted pages with new text contents or new figures are identified with black marginal bars or referenced symbols. When text is relocated resulting in a renumbering of pages or task, or in case of printing error corrections, no markings are provided.

1.2. Scope of ICA

The purpose of this ICA is to provide necessary information to maintain, inspect, repair, or replace the equipment. Maintenance personnel should be thoroughly familiar with standard abbreviations contained herein. Specific abbreviations or acronyms can be found in the document text with the full meaning. Requests for replacement ICA should be made to:

Address:

Helifab
1318 Smede Hwy.
Broussard, La
70518

Telephone: (337)364-4357

Website: ArrowAviationCo.com

1.3. Precautions

The following precautions may be used throughout this manual and are defined as follows:

WARNING IS USED WHEN UNQUALIFIED PERFORMANCE OR NEGLECT OF INSTRUCTIONS MAY LEAD TO INJURIES OR DEADLY ACCIDENTS.

CAUTION IS USED WHEN UNQUALIFIED PERFORMANCE OR NEGLECT OF INSTRUCTIONS MAY LEAD TO EQUIPMENT DAMAGE

NOTE IS USED WHEN A PARTICULAR ITEM NEEDS TO BE EMPHASIZED

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1.4. Abbreviations

The following Abbreviations may be used throughout this manual and are defined as follows:

EMM	Equipment Maintenance Manual
ICA	Instructions for Continued Airworthiness
HF	Helifab, Inc.
MIL	US Military Specification
N/C	No Change
Mo.	Months
Y	Years
PN	Part Number
IAW	In Accordance With
LH	Left Hand
RH	Right Hand
NA	Not Applicable
Cont.	Continued
FWD	Forward
CG	Center of Gravity

1.5. Consumable Materials

- A. Explanation
Only Consumable materials noted throughout this manual and on referenced drawings are to be used. Helifab can be contacted to approve alternate or equivalent materials.

2. General Product Information and Description

Helifab floor protectors for Bell Helicopter model 206B, 206L, 206L-1, 206L-3, 206L-4 and 407 rotorcraft, protect the cabin floor from damage due to normal wear and provide an easily cleanable surface. An optional foam cushion may be installed under the cabin protector to add additional damage protection. The optional foam pads are not included with the standard mats but may be ordered separately from the floor protectors. The floor protectors are secured in place using stainless steel clips. At the operator's discretion, velcro may be used to provide additional security to the floor protector installation (See section 5.1.2)

There are four installation part numbers for the floor protectors as listed below:

Part Number: HF-N-7-3-1 Crew Floor Protector Installation Kit

Part Number: HF-N-7-3-2 206B Cabin Floor Protector Installation Kit

Part Number: HF-N-7-3-3 206L Series Cabin Floor Protector Installation Kit

Part Number: HF-N-7-3-4 407 Cabin Floor Protector Installation Kit

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3. AIRWORTHINESS LIMITATIONS

There are no overhauls, time limits, or airworthiness limitations associated with this type design change.

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

4. INSPECTIONS / MAINTENANCE

4.1. Special Tools Required

Any special tools required for maintenance, removal, or installation of the floor protectors will be specified in the text of this document where applicable.

4.2. Special Materials Required

Any consumable materials required for maintenance, removal, or installation of the floor protectors will be specified in the text of this document where applicable.

4.3. Conditional Inspections after Operational Incidents

After any operational incident involving hard landings, sudden stoppage of the drive train or water immersion, the installation must not be operated until a thorough inspection of the installation has been accomplished IAW section 4.5 of this document.

4.4. Preflight Inspection

Normal pre-flight inspections to be accomplished per Bell Helicopter rotorcraft flight manual. Pre-flight inspections may be performed by the pilot or qualified technician.

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4.5. 12 Month / Annual Inspection

This inspection is to be performed by a qualified technician.

All inspections must be recorded in the rotorcraft records IAW 14 CFR Part 43 or other applicable regulations.

INSPECTION TASK DESCRIPTION	
1. Inspect floor protectors for security and condition. Replace floor protectors as required. Ensure floor protectors are secure, are clear of all controls and do not interfere with any of the aircraft controls	
2. Inspect stainless steel attachment clips for condition and security. Replace any cracked clips. Corrosion may be cleaned up by removing corrosion by sanding. Maximum depth of corrosion cleanup to be 10% of the original material thickness.	
3. Inspect optional foam pads for condition (if installed). Replace foam pads as required.	
4. If optional velcro is installed by the operator, ensure velcro is secure and functions properly. Replace velcro as required.	

4.6. Troubleshooting

Items that do not function properly can be corrected by replacing the malfunctioning item.

4.7. Repairs

No repairs other than those that can be accomplished with FAA accepted methods or that are called out in this document are allowed.

4.8. Cleaning

Clean floor protectors and foam cushions with cloth dampened with mild detergent and water. Allow floor protectors and foam cushions to dry before installation or storage.

For disinfecting, use a 10:1 ratio of water to bleach mixture (by volume) in lieu of mild detergent. (10 parts water to 1 part bleach)

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5. REMOVAL AND INSTALLATION INSTRUCTIONS / PARTS BREAKDOWN

5.1. Floor Protectors

5.1.1. Removal

1. Remove floor protectors by disengaging them from the stainless steel attachment clips and removing from aircraft.
2. Remove optional floor protector foam pads (if installed).

5.1.2. Installation

1. Install optional floor protector foam pads (if being installed)
2. Install optional velcro if desired. Item 15 velcro to be adhered to the existing floor, and item 16 to be adhered to the floor protectors using item 13. Ensure all surfaces are clean prior to adhering velcro.
3. Install floor protectors in aircraft and ensure the floor protectors are captured between the fuselage and stainless steel attachment clips.

Note:

The copilot and pilot floor protectors may be installed separately if desired.

Note:

Fastener installation to be in accordance with FAA advisory circular AC43.13-1B chapter 7, section 7-1 thru 7-89.

Note:

Reference figure 1 for installation. Use velcro for additional floor protector security if needed.

Warning:

Ensure floor protectors are secure, are clear of all controls and do not interfere with any of the aircraft controls. Trim Floor protectors as required.

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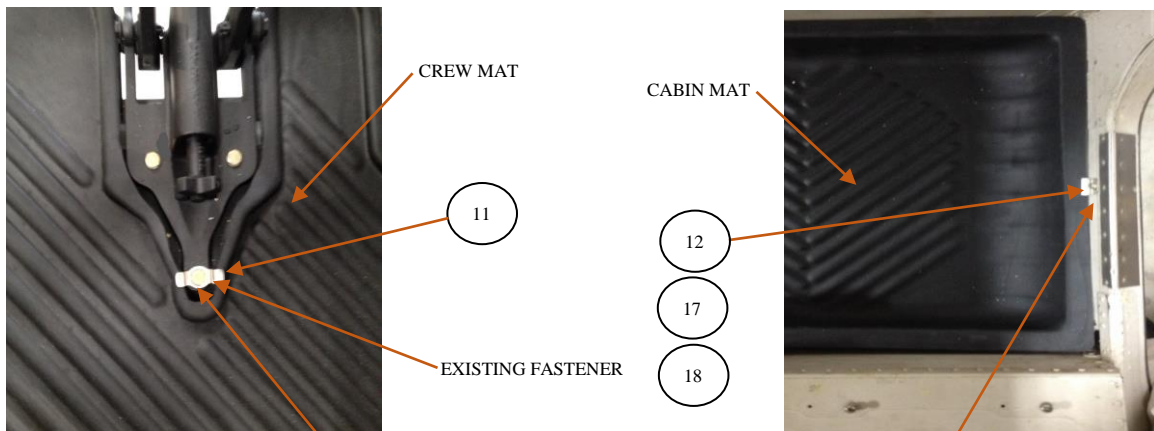
5.2. Parts Breakdown

**Table 1
Parts List**

Item Number	Part Number	Nomenclature	Vendor / Manufacturer	Note
1	HF-D-7-3-1	PILOT FLOOR PROTECTOR	HELIFAB	
2	HF-D-7-3-2	COPILOT FLOOR PROTECTOR	HELIFAB	
3	HF-D-7-3-3	206B CABIN FLOOR PROTECTOR	HELIFAB	
4	HF-D-7-3-4	206L SERIES CABIN FLOOR PROTECTOR	HELIFAB	
5	HF-D-7-3-5	407 CABIN FLOOR PROTECTOR	HELIFAB	
6	HF-D-7-3-6	206B CABIN FOAM INSERT	HELIFAB	
7	HF-D-7-3-7	206L CABIN FOAM INSERT	HELIFAB	
8	HF-D-7-3-8	206L CABIN CENTER FOAM INSERT	HELIFAB	
9	HF-D-7-3-9	407 CABIN FOAM INSERT	HELIFAB	
10	HF-D-7-3-10	407 CABIN CENTER FOAM INSERT	HELIFAB	
11	HF-D-7-3-11	SECURING WASHER(For Crew Compartment Protectors)	HELIFAB	
12	HF-D-7-3-12	SECURING TAB (For Cabin Protectors)	HELIFAB	
13	1099	ADHESIVE	3M	1,2,3,4
14	1099L	ADHESIVE	3M	1,2,3,4
15	SJ3572	Self-Adhesive Velcro Hook	3M	3
16	SABLK2.00L	Velcro Loop	Skandia, Inc.	3
17	MS27039-1-X	SCREW		5
18	NAS1149D0332K	WASHER		

- (1) Follow manufacturer's instructions for application.
- (2) Item 14 may be used as alternate for item 13.
- (3) Velcro and adhesive may be used for additional attachment of the floor protectors if desired. Reference section 5.1.2
- (4) Follow adhesive manufacturer's instructions for application and curing.
- (5) Determine fastener length upon installation.

**Figure 1
Floor Protector Installation**



Apply sealant per AMS-S-8802 between item 11 and existing peddle fitting.

Item 12, 17, and 18 are installed to existing inserts. One each of item 12 is required per side for cabin mat installation (for a total of 2 per cabin protector installation). If desired or required for security of the floor protector, it is permissible to install more securing tabs (item 12), than the minimum number required. When installing Item 12, apply sealant per AMS-S-8802 between item 12 and forward lower shell.

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6. PLACARDS

There are no placards associated with this type design change.

7. WEIGHT AND BALANCE

The new empty weight and corresponding CG location must be determined and entered in the aircraft permanent records.

Installation of the Helifab's floor protectors have the following effect on weight and balance:

**Table 2
Equipment Weights and Locations**

Installation Part Number	Description / Applicable Model	Weight	STA	BL
HF-N-7-3-1	Crew Floor Protector Installation Kit	2.7 Lb.	44.5	0
HF-N-7-3-2	206B Cabin Floor Protector Installation Kit	3.6 Lb. 4.5Lb. (with optional foam pad)	86.5	0
HF-N-7-3-3	206L Series Cabin Floor Protector Installation Kit	4.4 Lb. 5.6Lb. (with optional foam pads)	110	0
HF-N-7-3-4	407 Cabin Floor Protector Installation Kit	4.0 Lb. 5.0Lb. (with optional foam pads)	111	0