

CREW BARRIER INTERMEDIATE, KIT INSTRUCTIONS FOR CONTINUING AIRWORTHINESS

MODELS: BELL 429

Read all of the Instructions for Continuing Airworthiness thoroughly prior to performing any activities relating to this product

Table of Contents

<u>SECTION</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
1	Introduction	2
	Applicability	2
2	Description	3
3	Operation	4
4	Maintenance Instructions	5
5	Troubleshooting	8
6	Removal/Replacement	9
	Removal Instructions	10
	Replacement Instructions	11
7	General	14
8	Airworthiness Limitations	14
9	Illustrated Parts Breakdown	15

Notes

1. If changes to this document are required, Alpine Aerotech LP shall revise all pages and reissue the entire document.
2. Alpine Aerotech LP shall publish any subsequent revisions of this document to be made freely available. Alpine Aerotech LP also recommends that the end user of this product periodically verify the revision level of this document.

SECTION 1 Introduction

This document comprises Instructions for Continuing Airworthiness that apply to the Crew Barrier, Kit, installed on Bell 429 rotorcraft. The information and data contained in this document are supplemental to the information contained in the existing ICA for the Bell 429.

Applicability

The Crew Barrier Intermediate, Kit (AAL-491-010-001) is applicable to all serial numbers of Bell 429 rotorcraft with OEM interiors.

SECTION 2 Description

The following information provides a functional description of the Crew Barrier Intermediate, Kit as defined in Alpine Aerotech LP authority dataset AAL-491-010-001.

The AAL Crew Barrier Intermediate, Kit allows for the rapid installation of a non-permeable barrier between the crew and passenger compartments. This provides protection for the flight crew and passengers against droplet borne transmission of pathogens. The installation can be accomplished in the field with minimal hand tools. Removal takes less than a minute to allow for decontamination protocols outside of the aircraft.

SECTION 3 Operation

1. With the Crew Barrier Intermediate, Kit installed no special considerations required for operation.

SECTION 4 Maintenance Instructions

General Notes

1. The following information defines the instructions for continuing airworthiness, repair allowances and airworthiness limitations for the item(s) referenced within this document.
2. Refer to the current revision of the BHT Maintenance Manual, 429-MM, for the chapter(s) and section(s) referenced within this document.
3. Refer to the Section 6: Removal/Replacement and Section 9: Illustrated Parts Breakdown for the replacement and/or installation of the item(s) referenced within this section.
4. Scheduled inspection for the item(s) referenced within this document shall be accomplished in accordance with (IAW) the Inspection Procedures specified.
5. Repair allowances for the item(s) referenced within this document shall be accomplished IAW Section 5, Troubleshooting.
6. Limitations for the item(s) referenced within this document are IAW Section 8, Airworthiness Limitations.
7. In the event that the Crew Barrier Intermediate, Kit needs to be sterilized, remove the kit from the aircraft and either lay the assemblies on a flat surface or hang to expose maximum surface area. Spray all surfaces with a solution of 60-70% isopropyl alcohol or suitable/approved alternate disinfecting solution. Allow the disinfecting solution to evaporate, do not wipe down. Repeat for any surfaces not sprayed in the first application. Allow to evaporate completely then reinstall in the aircraft. Alternately, disinfection can be performed in-situ by wiping all exposed surfaces with a cloth saturated with a suitable disinfecting solution.

Inspection Procedures

Supplement to applicable Maintenance Manual, Chapter 5, Inspection and Component Overhaul Schedule

Notes

8. Refer to the applicable Maintenance Manual, Chapter 5, for general information on inspections, inspection definitions, inspection intervals, inspection methods and inspection schedules.
9. General Inspections, as indicated within this document, are defined as visual, non-thorough checks.
10. Detailed Inspections, as indicated within this document, are defined as visual and thorough, searching checks.
11. Perform Daily Inspections/Pilot Pre-flight Check every day, prior to flight operation. If damage is detected, perform the 300 Hour/12 Month Inspections.
12. Perform 300 Hour/12 Month Inspections every 300 hours or every 12 months, whichever occurs first, prior to flight operation. If damage is detected, refer to the Repair Procedures section within this document.

Scheduled Inspections

1. Daily Inspections/Pilot Pre-flight Check

Data Reference: Section 6: Removal/Replacement
Section 9: Illustrated Parts Breakdown

- i. Perform a General Inspection on all items in the Crew Barrier Intermediate, Kit for general condition.
- ii. Perform a General Inspection on all items in the Crew Barrier Intermediate, Kit for proper security.

2. 300 Hour/12 Month Inspections

Data Reference: Section 6: Removal/Replacement
Section 9: Illustrated Parts Breakdown

- i. Perform a Detailed Inspection on all materials and finishes in the Crew Barrier Intermediate, Kit for evidence of wear and damage.
- ii. Perform a Detailed Inspection on all fabrics and materials, paying attention to the integrity of the stitching. Ensure that the Velcro installed on the aircraft has maintained a proper bond.
- iii. Perform a Detailed Inspection on all items, materials and finishes in the Crew Barrier Intermediate, Kit for proper integrity and condition.

SECTION 5 Troubleshooting

1. Repairs to all other item(s) referenced within this document are **not** permitted. Contact Alpine Aerotech LP for further information if repairs are required to all other item(s) referenced within this document.

SECTION 6 Removal/ Replacement

General Notes

1. All Removal/Replacement instructions shall be accomplished in accordance with (IAW) standard aircraft practices. Refer to the current revision of the FAA Advisory Circular AC 43.13-1 and AC 43.13-2 for details on standard aircraft practices.
2. All dimensions are in imperial measures (inches/pounds).
3. Refer to Section 4: Maintenance Instructions for instructions on maintenance for the item(s) referenced within this section.
4. Refer to Section 9: Illustrated Parts Breakdown for the part numbers of the item(s) referenced within this section.

Removal Instructions

1. Gain access to the aircraft and make the aircraft ready for maintenance.
2. Grasp the red webbing in the upper outboard corners, where it is attached to the roof and pull down. Continue separating the Velcro using care not to damage the stitching and remove the Crew Barrier Intermediate, Assy, (Item 1). This operation is best performed from the passenger area but can be performed from either the crew or the passenger areas. Reference Figure 1.



Figure 1
Barrier, Assy (Item 1) shown,

3. Continue to separate the Crew Barrier Intermediate, Assy, (Item 1) until it is free from the aircraft and remove.

Replacement Instructions

1. Starting at one the upper outboard corner of the rollover bulkhead, begin fastening the Crew Barrier Intermediate, Assy, (Item 1) to the Velcro®, Loop (Item 7) and working across the roof from one side to the other. Apply firm pressure to fasten the hook and loop together. Reference Figure 2.

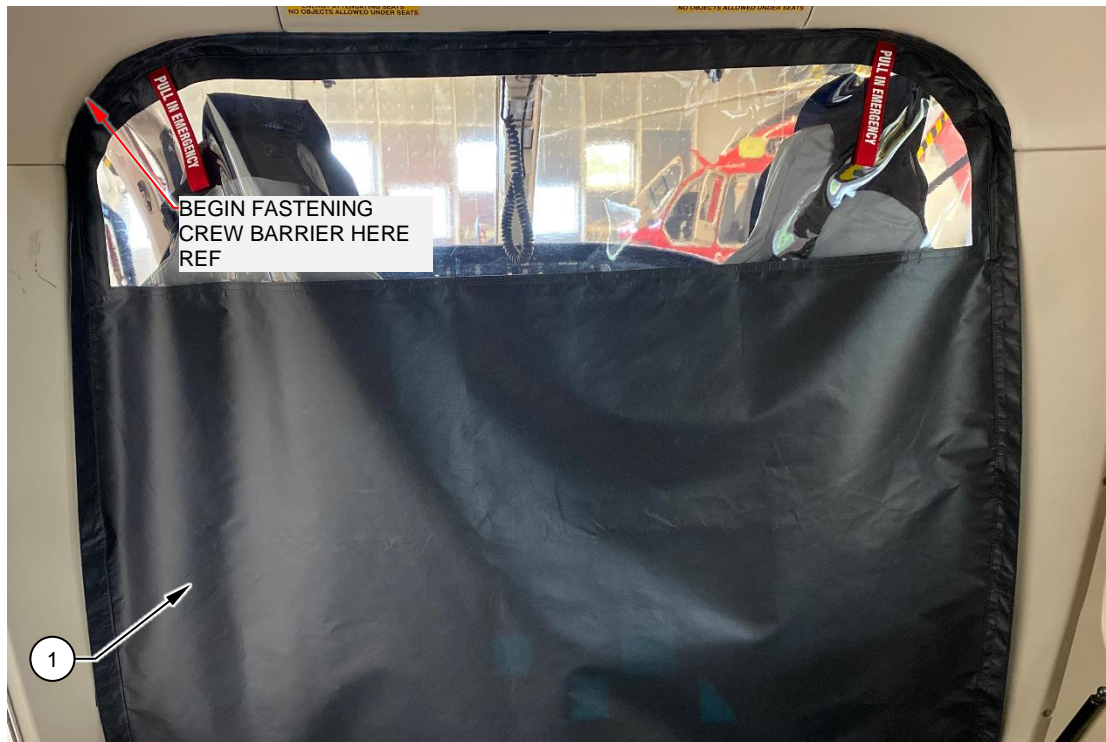


Figure 2
LKG FWD
Barrier Assy, (Item 1) Installation Shown.

Replacement Instructions (cont.)

2. Once the roof portion is attached, start at the upper outboard corners and attach the outboard wall portions of the Crew Barrier Intermediate, Assy, (Item 1), to the Velcro®, Loop (Item 7) and continue securing it all the way down the LH & RH rollover bulkhead pillars. Reference Figures 3 & 4.

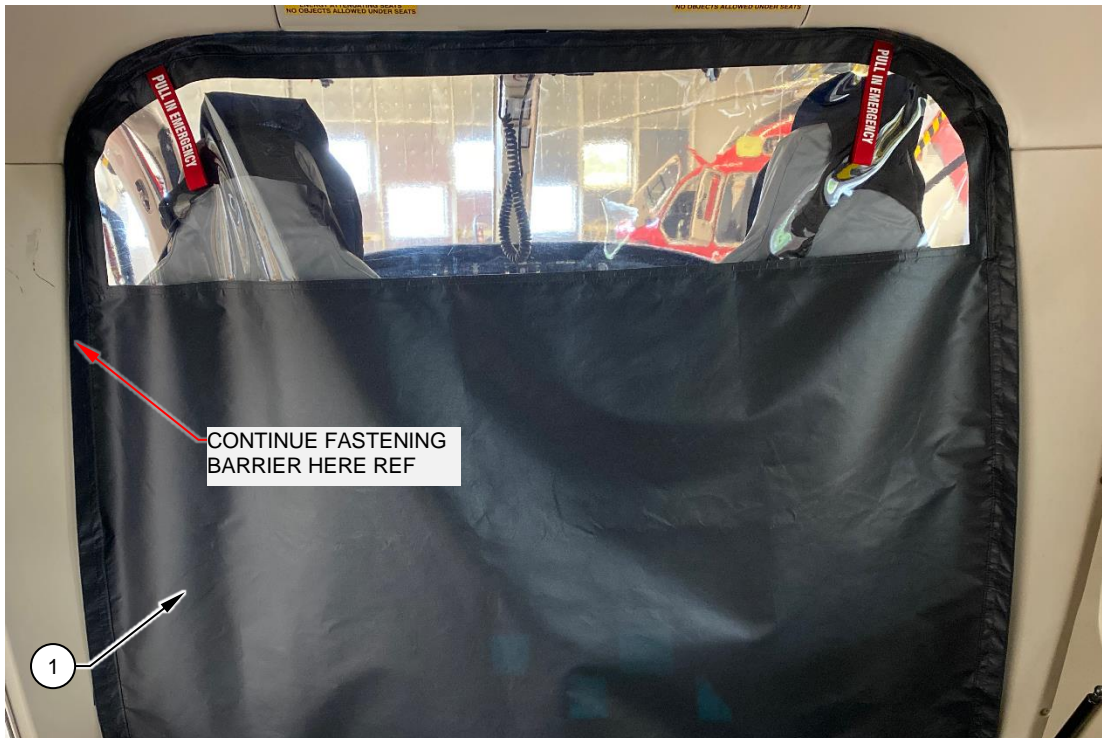


Figure 3
LKG FWD
Barrier Assy, (Item 1) Installation Shown.

Replacement Instructions (cont.)

2. Secure the Crew Barrier Intermediate, Assy, (Item 1) to the Velcro®, Loop (Item 7) along the floor. Reference Figure 4.

NOTE

Installation to aircraft floor is recommended, but optional.



Figure 4
LKG FWD
Barrier Assy, (Item 1) Installation Shown.

3. Update the aircraft logbook for the replacement of the affected components of the 429 Crew Barrier, Kit.

SECTION 7 General

There are no general considerations for this kit.

SECTION 8 Airworthiness Limitations

The Airworthiness Limitations section is approved by the Minister and specifies maintenance required by any applicable airworthiness or operating rule unless an alternative program has been approved by the Minister.

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

**Supplement to applicable Maintenance Manual,
Chapter 4, Airworthiness Limitations Schedule**

Notes

1. Refer to the Maintenance Planning Information, Chapter 4, for general information on airworthiness limitations and airworthiness limitation schedules.
2. Item(s) **not** listed in the Scheduled Airworthiness Limitations section within this document have an unlimited airworthiness life.

Scheduled Airworthiness Limitations

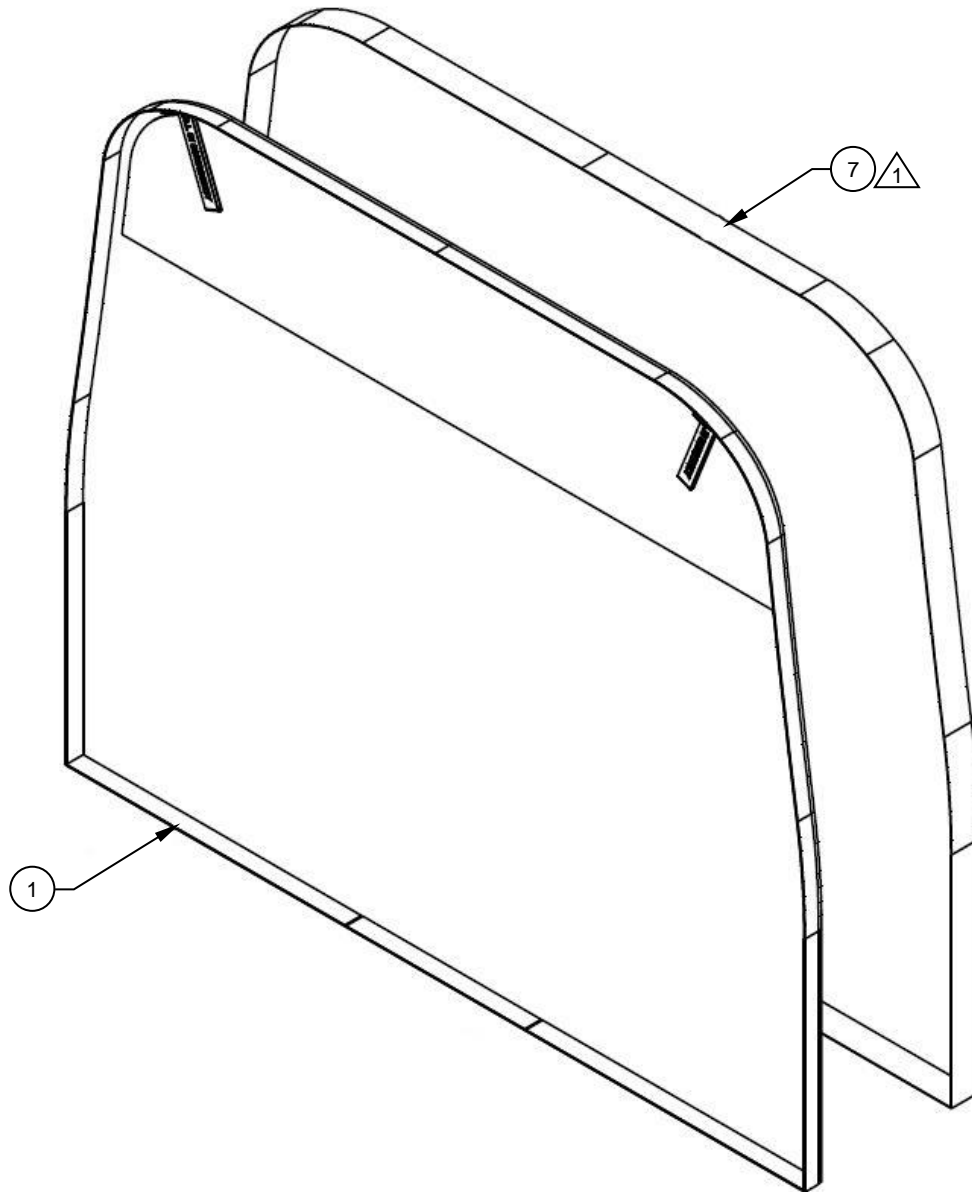
1. There are no airworthiness limitations associated with the item(s) referenced within this document.

SECTION 9 Illustrated Parts Breakdown

General Notes

△₁ Velcro®, Detail supplied as one length. Cut individual pieces to length as required.

Illustrated Parts Breakdown



Crew Barrier Intermediate, Kit
Shown

Illustrated Parts Breakdown (cont.)

ITEM	QTY	NUMBER	DESCRIPTION	MATERIAL	REF STOCK	SPEC	FINISH	MANUFACTURER	NCAGEC
-	-	AAL-491-010-001	429 CREW BARRIER, KIT	C/O SHADED ITEMS				ALPINE AEROTECH LP	L0171
1	1	AAL-491-011-001	CREW BARRIER INTERMEDIATE, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
2	1	>MIL-C-22787 TYPE I - BLACK	CLOTH, COATED, FUEL AND FLAME RESISTANT	CLOTH, GLASS	SEE SPEC	SEE SPEC	SEE SPEC	SOURCE AS REQUIRED	NA
3	1	>CW1120-1	CLEAR PLASTIC 20GA NON-INTERLEAVED UV FR	NA	NA	NA	CLEAR	SOURCE AS REQUIRED	NA
4	1	>V-T-295 TYPE II CBB69 BLACK	THREAD, NYLON	SEE SPEC	SEE SPEC	V-T-295	BLACK	SOURCE AS REQUIRED	NA
5	2	>MIL-W-4088 TYPE II 1.00 WEBBING RED	WEBBING, DETAIL	SEE SPEC	1.00"	MIL-W-4088	SEE SPEC	SOURCE AS REQUIRED	NA
6	1	>HOOK 088-8289 1.00 BLACK	VELCRO, DETAIL	HOOK 88, BLACK 8289	1.00"	SEE MFG	SEE MFG	VELCRO USA	11153
7	1	151394, VELCRO	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2.00" X 194.77"	SEE MFG	SEE MFG	VELCRO USA INC.	11153

1