

## **CREW BARRIER, KIT INSTALLATION INSTRUCTIONS**

**MODELS: BELL 407**

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

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**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 make any subsequent revisions of this document available free of charge upon request. Alpine Aerotech LP also recommends that the end user of this product periodically verify the revision level of this document.

**SECTION 1 DESCRIPTION**

The following information provides a functional description of the 407 Crew Barrier, Kit as defined in Alpine Aerotech LP authority dataset AAL-391-010-001.

The AAL 407 Crew Barrier, 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 2    INSTALLATION & REMOVAL INSTRUCTIONS**

### **Applicability**

The 407 Crew Barrier, (AAL-391-010-001) is applicable to all serial numbers.

### **Weight & Balance**

<u>Part Number</u>	<u>Description</u>	<u>Weight</u>	<u>Long. Arm</u>	<u>Lat. Arm</u>
AAL-391-010-001	407 Crew Barrier, Kit	1.17*	81.41 (STA)	.18 (RBL)
		0.53 (Kg)	2.07 (m)	0.00 (m)

\* Represents total weight of applicable kit only. Recalculate C of G as appropriate.

### **General Notes**

1. All Installation 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 ICA document AAL-391-015-701, Section 4: Maintenance Instructions for instructions on maintenance for the item(s) referenced within this section.
4. Refer to ICA document AAL-391-015-701, Section 9: Illustrated Parts Breakdown for the part numbers of the item(s) referenced within this section.

## **Installation Instructions**

1. Gain access to the pilot and co-pilot seatback area of the aircraft and make the aircraft ready for maintenance.
2. Assess the surfaces of the pilot and co-pilot seatback area and note any installed equipment that may need to be adjusted or temporarily removed to install the Velcro®, Loop (Item 11).

### **NOTE**

The method shown in the following instructions should be considered optimal, but variations to accommodate existing aircraft configurations are permissible.

3. Ensure that all of the plastic and painted sheet metal surfaces in the installation area are thoroughly cleaned and degreased using isopropyl alcohol.
4. Dry fit the Barrier, Assy LHS (Item 1) and mark out the final location surfaces using masking tape or some other temporary method.



**Figure 1**  
LKG FWD LHS  
Velcro®, Loop (Item 11)  
Installation on seatback shown.  
RHS opposite.

**Installation Instructions**

5. Peel up the backing from one end the Velcro®, Loop and apply the Velcro®, Loop (Item 11) to the interior of the aircraft starting at the lower inboard corner. Use the temporary marks made in Step 4 as a guide and peel away the backing as you move along, trim the length of the Velcro®, Loop (Item 11) to suit. It is permitted to cut the Velcro into shorter, more manageable lengths to ease installation. It is also recommended to cut the Velcro®, Loop at joints between adjacent interior panels to make future removal of interior panels possible. Reference Figures 1 & 2.

**NOTE**

The PSA (Pressure Sensitive Adhesive), obtains the best adhesion if it has a hard roller or firm pressure applied during application. 80% of maximum adhesion is obtained after 1 hour. A 100% cure is achieved after 30 hours.



**Figure 2**  
Velcro®, Loop (Item 11) LHS Installation shown.  
RHS opposite.

**Installation Instructions**

- Starting at the lower inboard side of the seatback, begin fastening the Crew Barrier, Assy, LHS (Item 1) to the Velcro®, Loop (Item 11) and working up the center pillar to the roof. Apply firm pressure to fasten the hook and loop together. Reference Figures 3 through 6.

**NOTE**

Ensure the Barrier, Assy LHS (Item 1) is installed above the passenger seat retainer clip and does not interfere with installation of the passenger seat. Reference Figures 3 & 4.



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



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



**Installation Instructions**

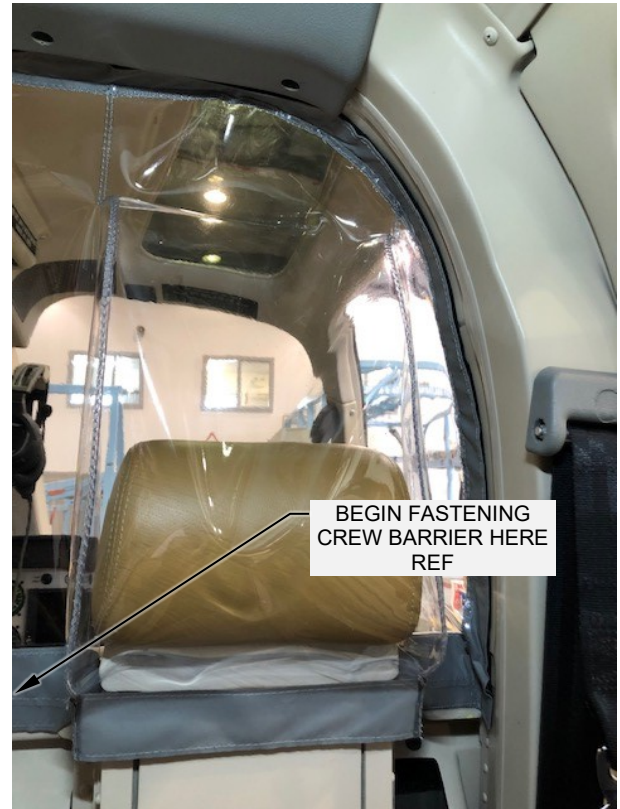
7. Once the vertical inboard portion is attached to the center pillar, fasten the roof portion of the Barrier, Assy, LHS (Item 1), with the Velcro®, Loop (Item 11) and continue securing it all the way down the outboard door pillar. Reference Figures 5 & 6.



**Figure 5**

RHS LKG AFT

Barrier Assy, RHS (Item 6) Installation Shown.  
LHS opposite.



**Figure 6**

RHS LKG FWD

Barrier Assy, RHS (Item 6) Installation Shown.  
LHS opposite.

8. Secure the Barrier, Assy, LHS (Item 1) to the Velcro®, Loop (Item 11) along the seatback. Reference Figure 6.
9. Perform Steps 1 through 8 again on the RHS of the aircraft with Barrier, Assy RHS (Item 6) and Velcro®, Loop (Item 11).
10. Update the aircraft logbook for the installation of the 407 Crew Barrier, Kit.
11. Installation complete.

## **Removal Instructions**

1. Remove all components associated with the 407 Crew Barrier, Kit.
2. Gently push fingers in between the Crew Barrier and the Velcro® where it is attached to the roof and pull down. Continue separating the Velcro® using care not to damage the stitching and remove the Barrier, Assy LHS (Item 1) and Barrier, Assy RHS (Item 6).
3. Peel and remove the Velcro®, Loop (Item 11) from the interior panel surfaces and the seatbacks and clean off any residual adhesive. It is permitted to leave the Velcro®, Loop (Item 9) in place if the operator chooses.
4. Perform a General Inspection of all items to ensure proper removal.
5. Update the aircraft logbook for the removal of the 407 Crew Barrier, Kit.