

FLOOR PROTECTION KIT, AFT W/ BULKHEAD CLOSEOUT INSTALLATION INSTRUCTIONS

MODELS: BELL 429

Table of Contents

<u>Section</u>	<u>Description</u>	<u>Page</u>
1	Description	2
2	Installation & Removal Instructions	3
	Applicability	3
	Installation Instructions Floor Protection, Kit, AFT	4
	Removal Instructions Floor Protection, Kit, AFT	10
	Installation Instructions Floor Protection, Kit, AFT w/ Aux Tank	11
	Removal Instructions Floor Protection, Kit, AFT w/ Aux Tank	17
	Appendix A: Door Opener Kit modification	18

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 installation instructions for the Floor Protection, Kit, Aft w/ Bulkhead Closeout as defined in Alpine Aerotech LP authority datasets AAL-412-010-003.

- The Floor Protection, Kit includes rigid pieces of material that are installed atop the existing floor to protect it from dents and punctures associated with typical aircraft usage. This occurs most frequently during loading and unloading operations, but can also occur during small inflight shifts of said cargo.
- The Floor Protection, Kit when installed, adds additional protection to the floor panels, as it is manufactured from a material specifically designed to spread and attenuate energy.

SECTION 2 INSTALLATION & REMOVAL INSTRUCTIONS

Applicability

The Floor Protection, Kit, AFT, (AAL-412-020-003) is applicable to Bell 429 all serial numbers equipped with OEM interior.

Weight & Balance

<u>Part Number</u>	<u>Description</u>	<u>Weight</u>	<u>Long. Arm</u>	<u>Lat. Arm</u>
AAL-412-020-003	Floor Protection, Kit, AFT	9.27*	262.45 (STA)	1.01 (BL)
		4.20 (Kg)	6.66 (m)	.03 (m)

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


General Notes


1. All Installation Instructions shall be accomplished IAW standard aircraft practices. Refer to the current revision of the FAA publications AC 43.13-1B and AC 43.13-2B for details on standard aircraft practices.
2. All Dimensions are in imperial measures (inches/pounds).
3. Refer to Section 2: Maintenance Manual Supplement for instructions on maintenance for the item(s) referenced within this section.
4. Refer to the Section 4: Illustrated Parts Breakdown for the part numbers of the item(s) referenced within this section.

 Remove and retain for future use.

 Reinstall existing OEM fastener.

 Remove and discard.

 Triangular tie down strap location

 OEM auxiliary tank and attachment assemblies; rear attachment assemblies are integral to fuel tank. Fuel tank not shown for clarity

Installation Instructions

Floor Protection, Kit, AFT

1. Gain access to the AFT section of the cabin floor. Reference Figure 1.

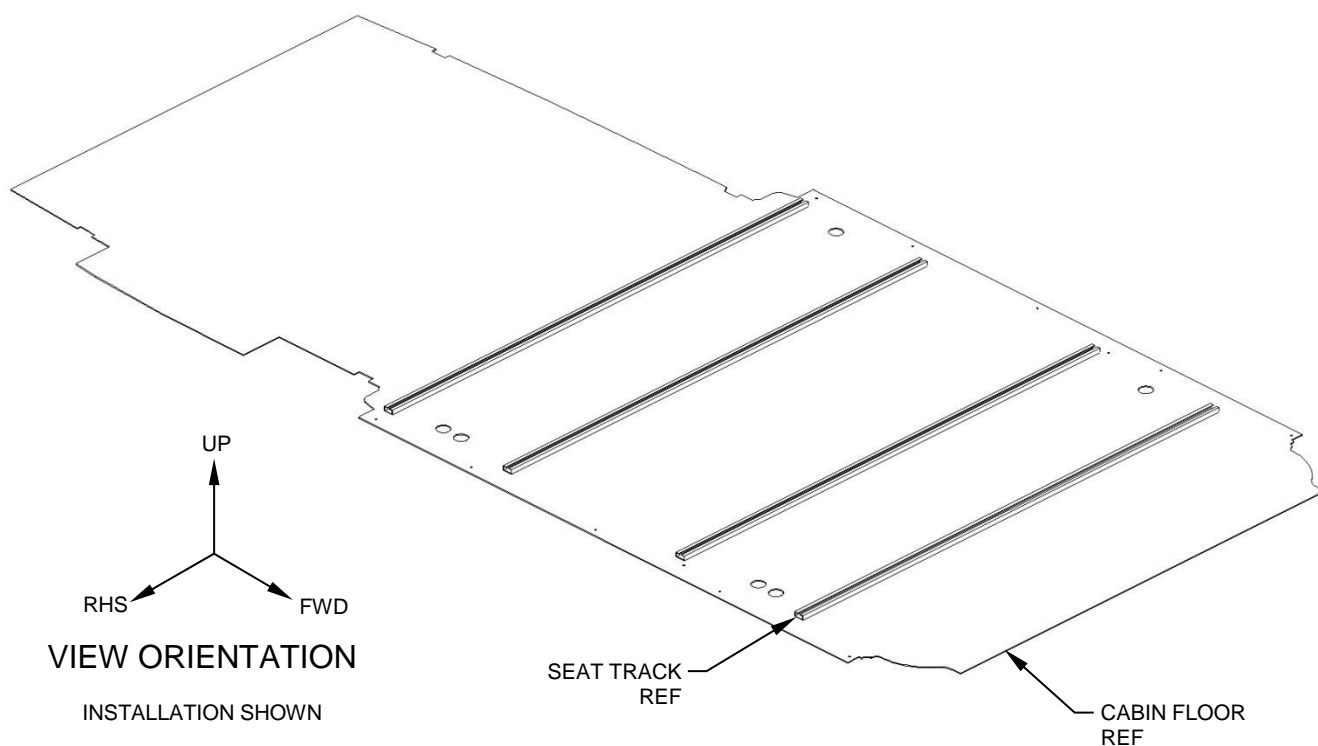


Figure 1
Some Items
Removed for
Clarity

Installation Instructions (cont.)

Floor Protection, Kit, AFT

2. Remove and discard the two most OUTBD fasteners common to the access panels near the AFT end of the cargo area. Remove and retain fasteners along cargo door sill. Reference Figure 2.

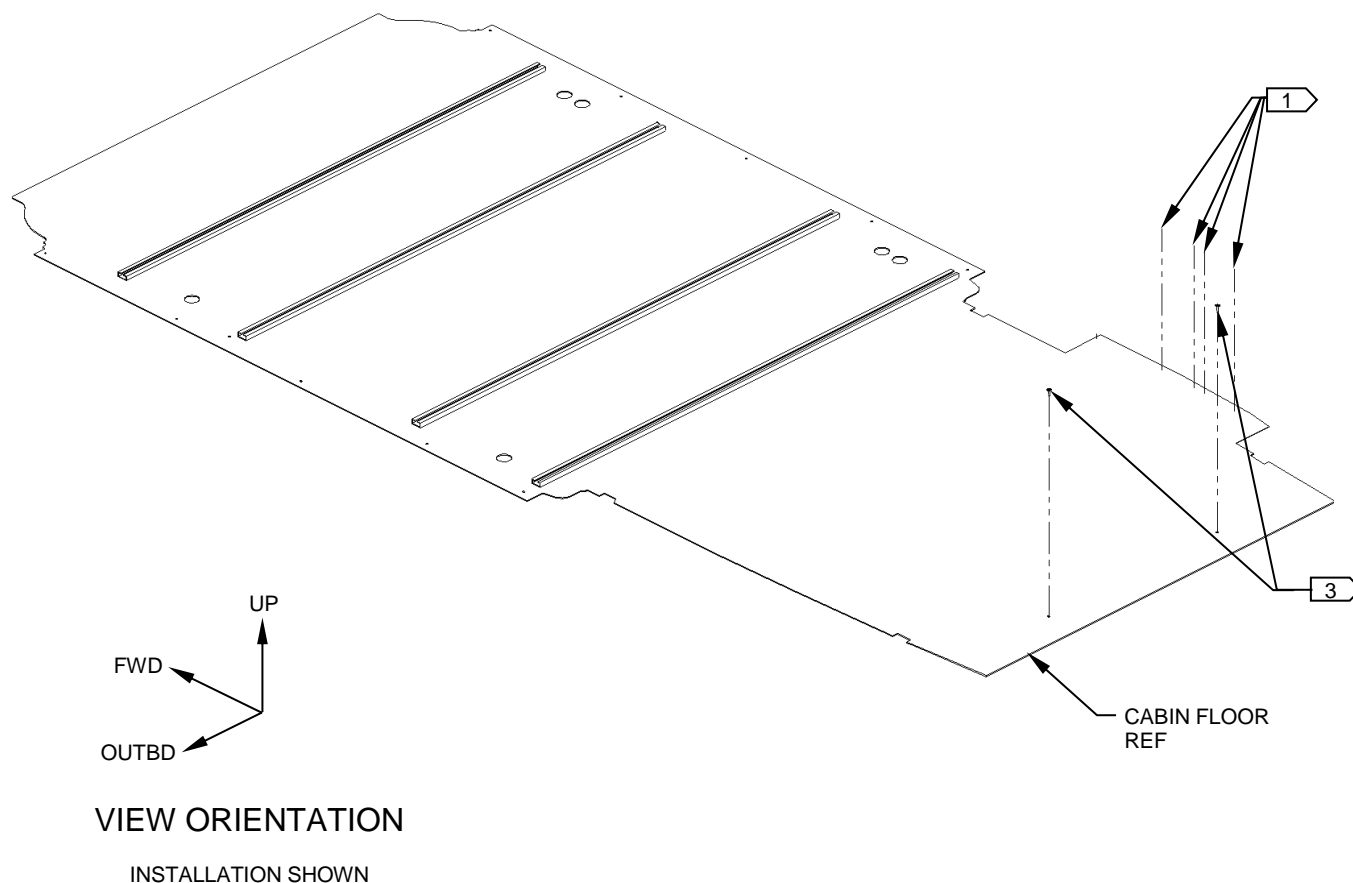


Figure 2
Some aircraft structure
Removed for clarity

Installation Instructions (cont.)

Floor Protection, Kit, AFT

3. Position the LHS Panel Assy (Item 1) on the floor in its approximate position with the Velcro strips facing down as shown. Reference Figure 3.

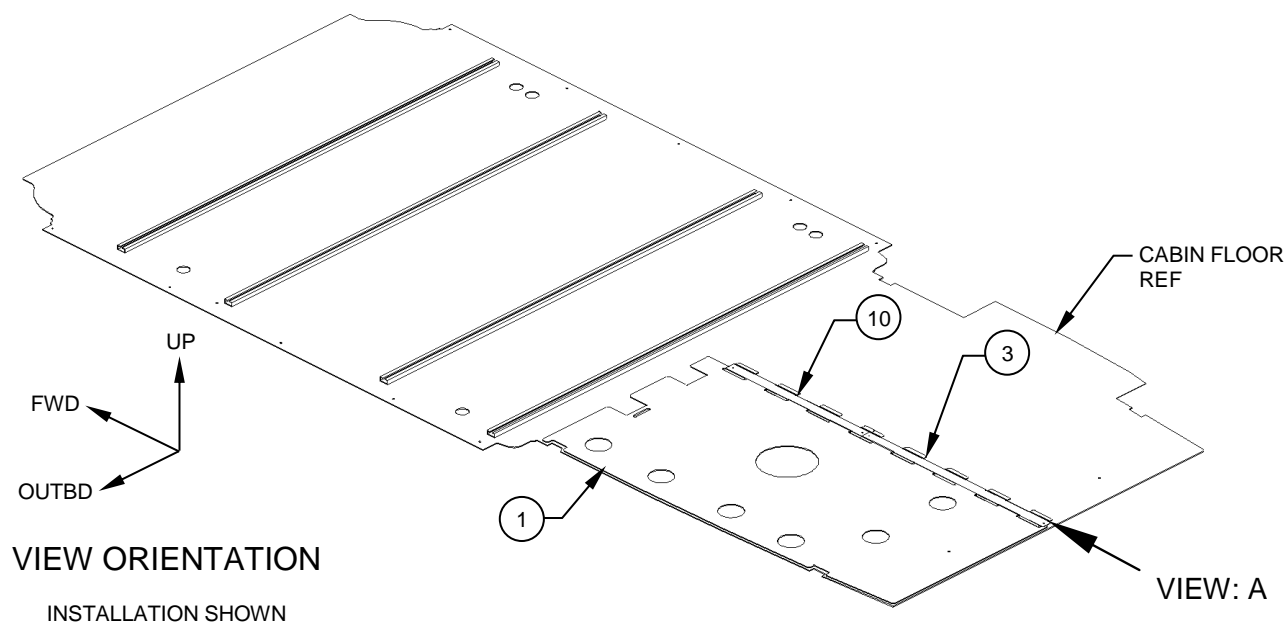


Figure 3

Some aircraft structure
Removed for clarity

4. Install the Retainer Strip, Assys (Item 3 and 10) by inserting the tabs into the provided slots in the panel as shown. Reference Figures 3 & 4.

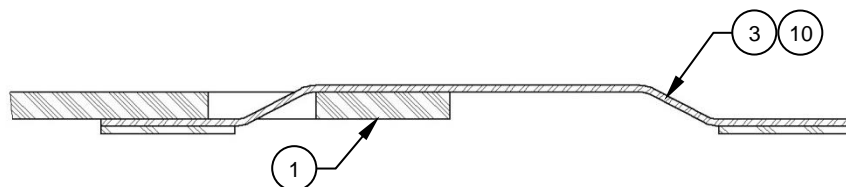


Figure 4

VIEW: A

Some aircraft structure
Removed for clarity

Installation Instructions (cont.)

Floor Protection, Kit, AFT

5. Install the RHS Panel, Assy (Item 2) by tipping the panel on an angle and inserting the Retainer Strip, Assy (Item 3 and 10) tabs into the provided slots in the panel as shown. Install cargo door sill (Item 4) using OEM hardware. Reference Figures 3, 4 & 5.
6. Install the provided fasteners (Item 10) as shown. Reference Figures 4 & 5

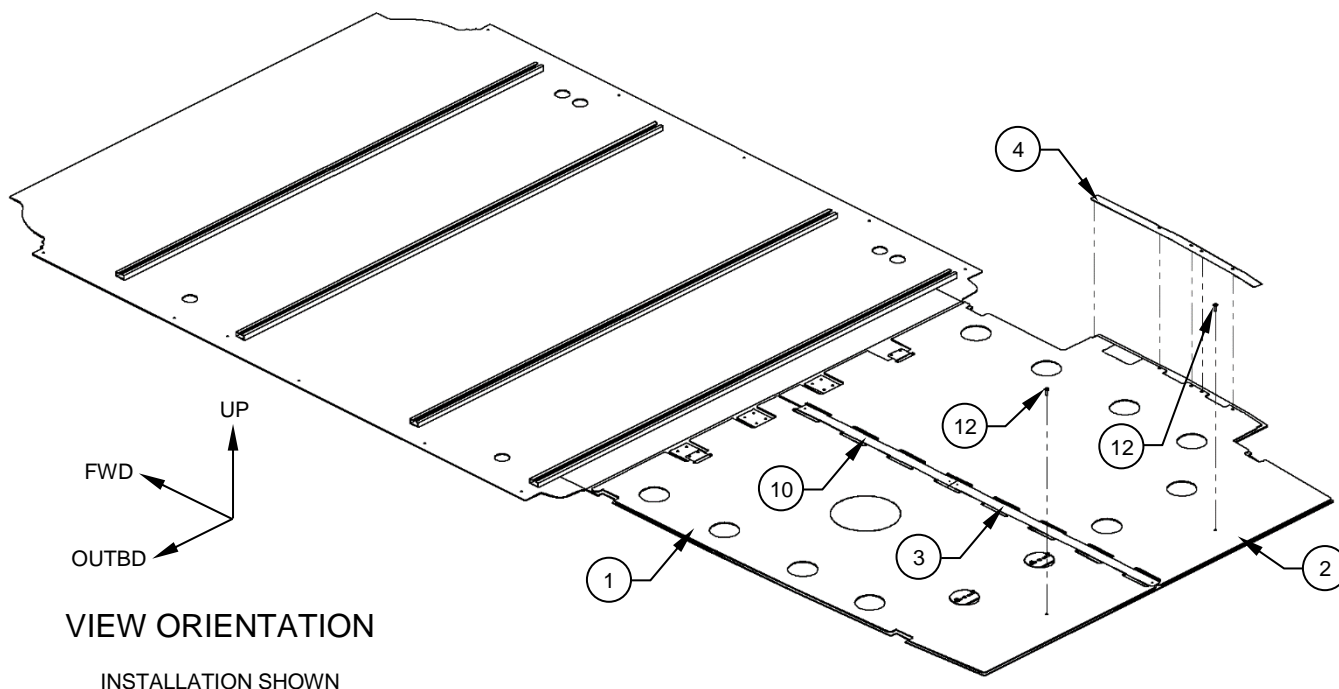


Figure 5
Some aircraft structure
Removed for clarity

Installation Instructions (cont.)

Floor Protection, Kit, AFT

7. Install the Velcro, Detail (Item 8) on the fuel transfer door by removing the backing and placing the Velcro on the door in the proper orientation. Apply adequate pressure to ensure proper adhesion to the fuel transfer door. Reference Figure 6.
8. Install the Blanking Plate, Assy (Item 5) with the provided Velcro, Detail (Item 8) in the proper orientation. Reference Figure 6.

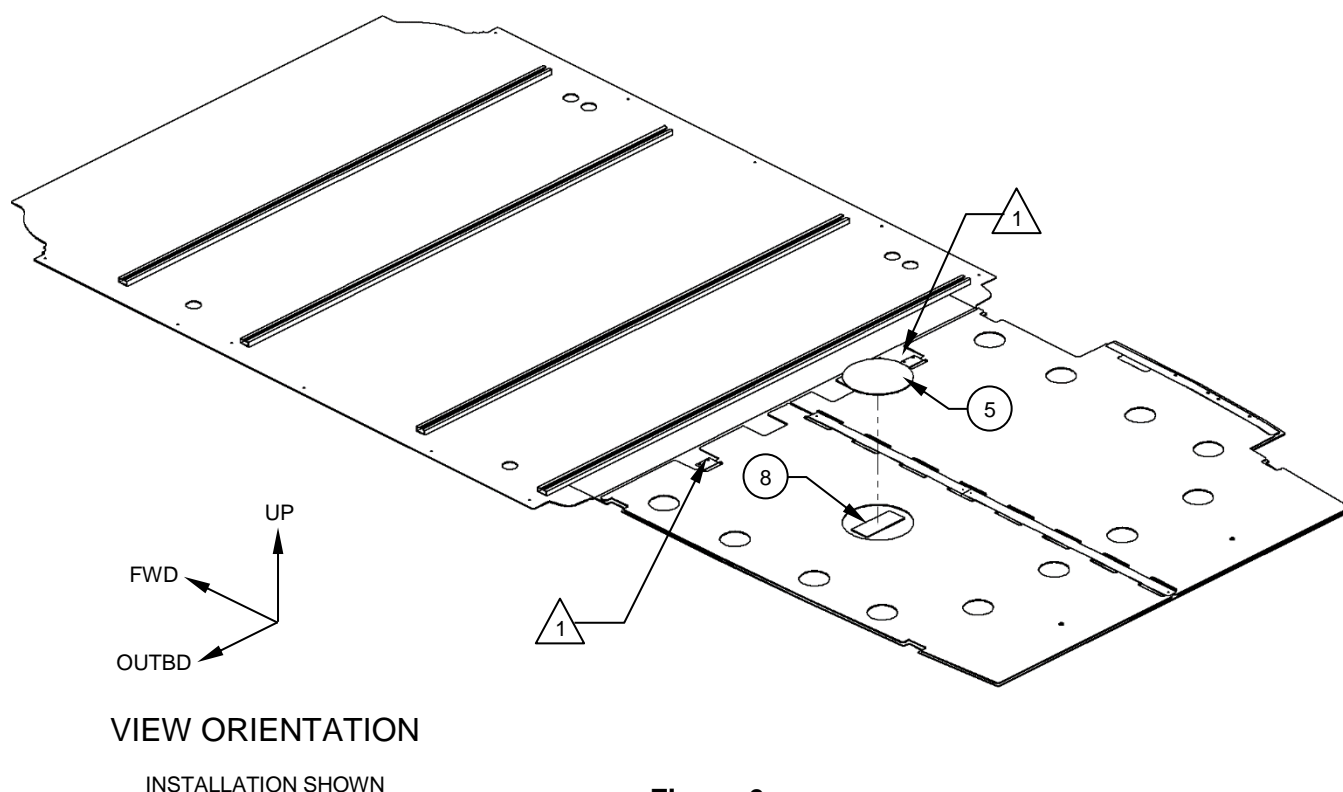
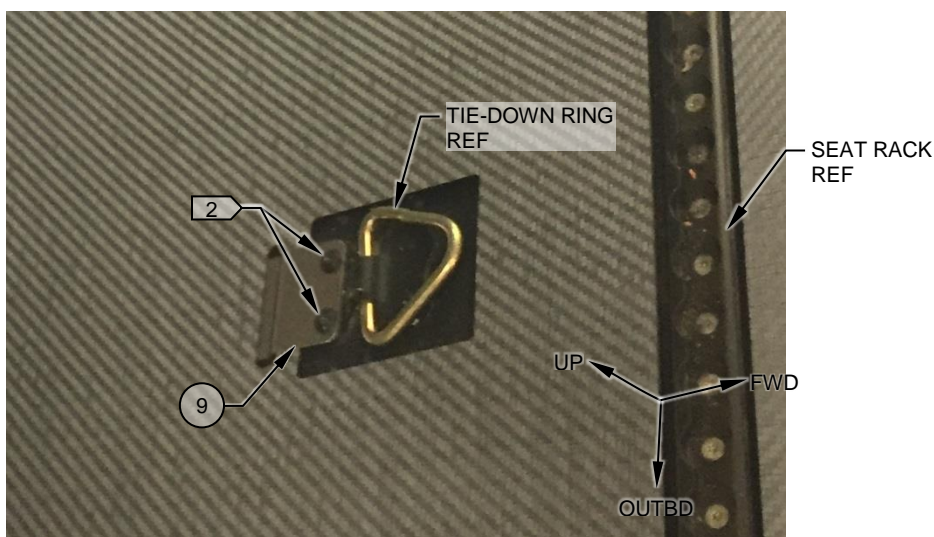


Figure 6
Some aircraft structure
Removed for clarity

Installation Instructions (cont.)

Floor Protection, Kit, AFT

9. Remove the AFT two screws from the two FWD most triangular tie-down rings in the cargo area and install the Retainer, Assemblies (Item 9) re-using the OEM fasteners. Reference Figure 6 and 7.



VIEW ORIENTATION

INSTALLATION SHOWN

Figure 7
Installation Shown

10. Installation complete
11. Perform a General Inspection of all items to ensure proper installation.
12. Update the aircraft logbook for the installation of Floor Protection, Kit AFT.

Removal Instructions

1. Remove all components associated with the Floor Protection, Kit, AFT.
2. Replace Screw, Washer Head (Item 11), with OEM fasteners.
3. Peel and remove the Velcro®, Detail (Item 8) from the fuel filler door, and clean off any residual adhesive. It is permitted to leave the Velcro®, Detail (Item 8) 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 Floor Protection, Kit, AFT.

Installation Instructions

Floor Protection, Kit, AFT with OEM auxiliary fuel tank kit (429-706-500-101/-109)

1. Gain access to the AFT section of the cabin floor. Remove OEM auxiliary tank and attachment assemblies; rear attachment assemblies are integral to fuel tank. Fuel tank not shown for clarity. Reference Figure 8.

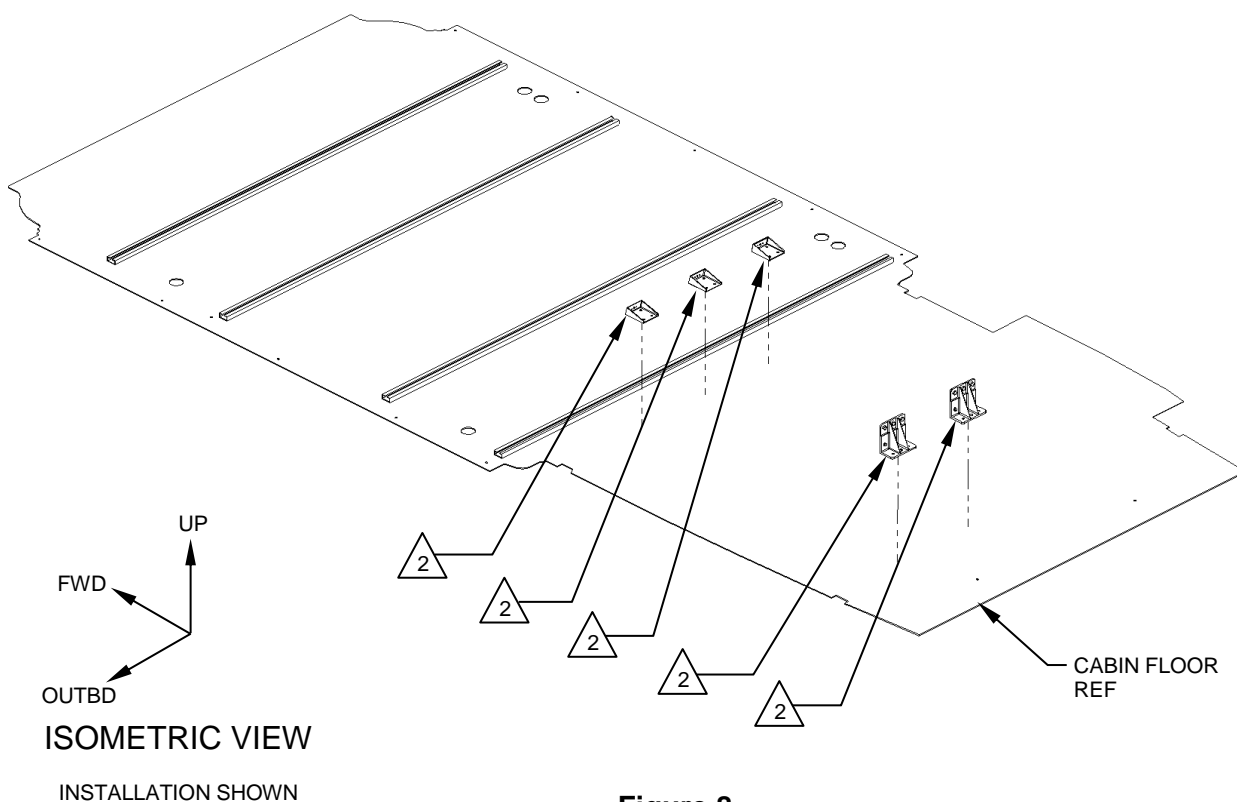


Figure 8
Some Items
Removed for
Clarity

Installation Instructions (cont.)

Floor Protection, Kit, AFT with OEM auxiliary fuel tank kit (429-706-500-101/-109)

2. Remove and discard the two most OUTBD fasteners common to the access panels near the AFT end of the cargo area. Remove and retain fasteners along cargo door sill. Reference Figure 9.

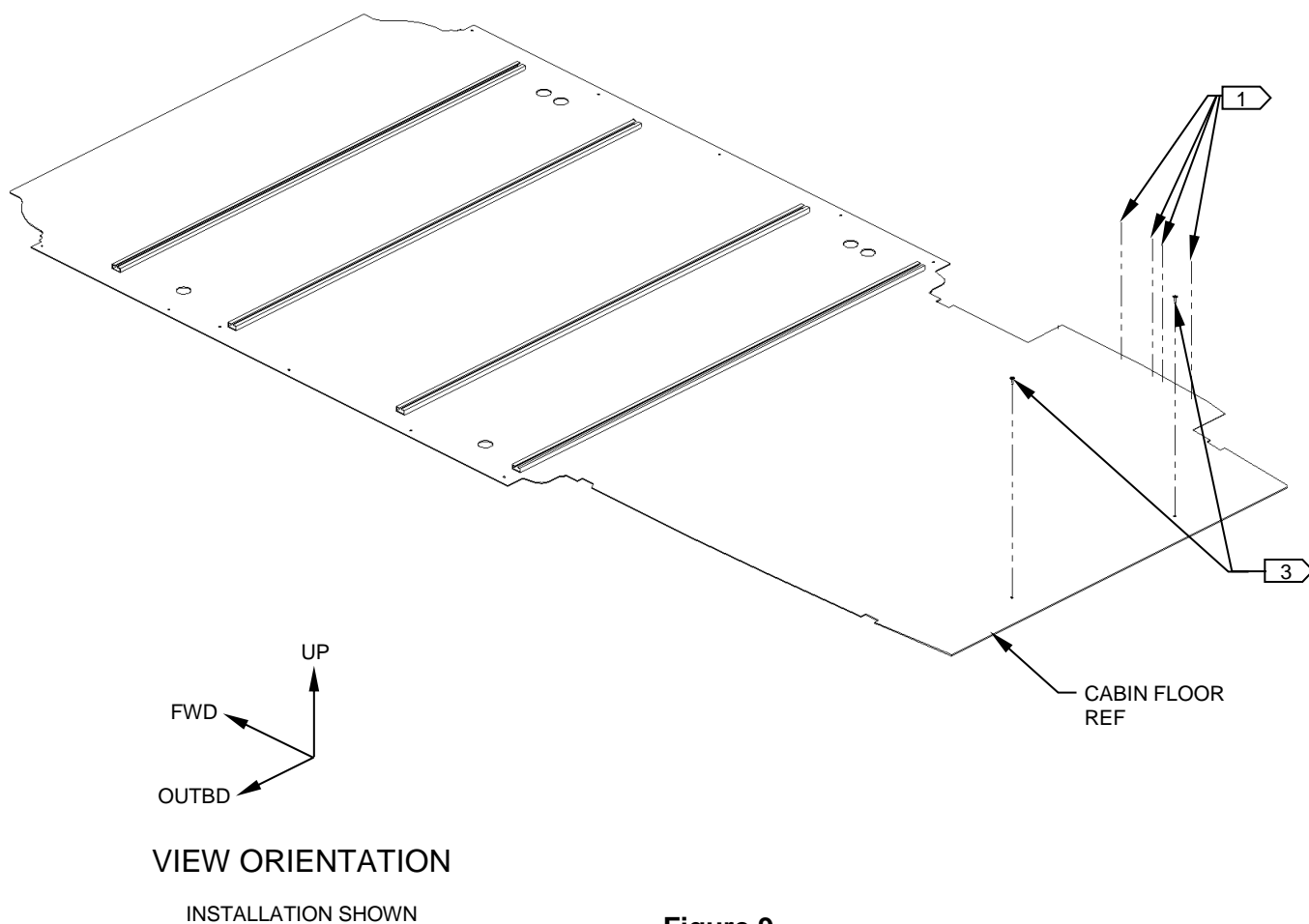


Figure 9
Some aircraft structure
Removed for clarity

Installation Instructions (cont.)

Floor Protection, Kit, AFT with OEM auxiliary fuel tank kit (429-706-500-101/-109)

3. Position the LHS Panel Assy (Item 1) on the floor in its approximate position with the Velcro strips facing down as shown. Reference Figure 10.

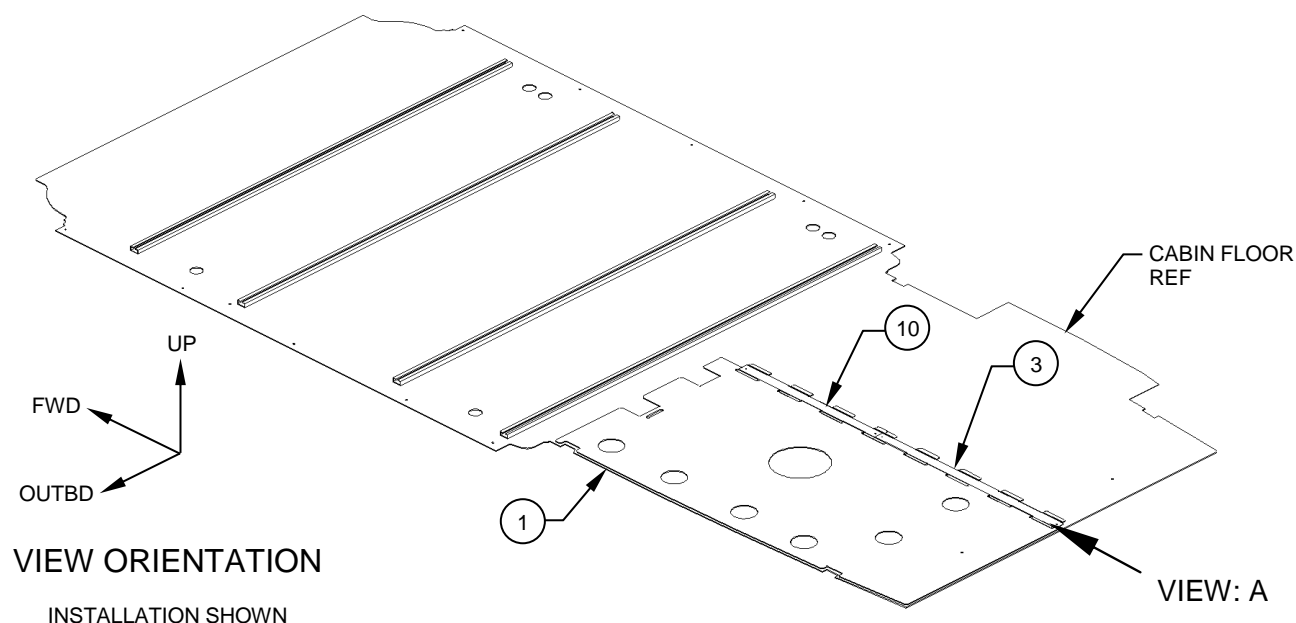


Figure 10

Some aircraft structure
Removed for clarity

4. Install the Retainer Strip, Assys (Item 3 & 10) by inserting the tabs into the provided slots in the panel as shown. Reference Figures 10 & 11.

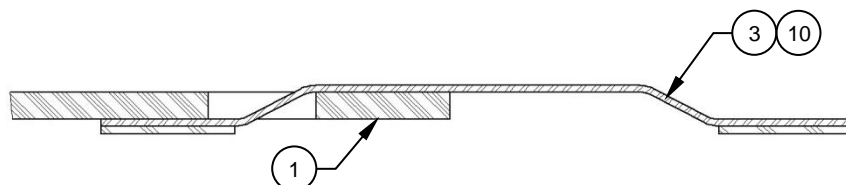


Figure 11

VIEW: A

Some aircraft structure
Removed for clarity

Installation Instructions (cont.)

Floor Protection, Kit, AFT with OEM auxiliary fuel tank kit (429-706-500-101/-109)

5. Install the RHS Panel, Assy (Item 2) by tipping the panel on an angle and inserting the Retainer Strip, Assy (Item 3 and 10) tabs into the provided slots in the panel as shown. Install cargo door sill (Item 4) using OEM hardware. Reference Figures 3, 4 & 5.
6. Install the provided fasteners (Item 12) as shown. Reference Figures 9 & 12

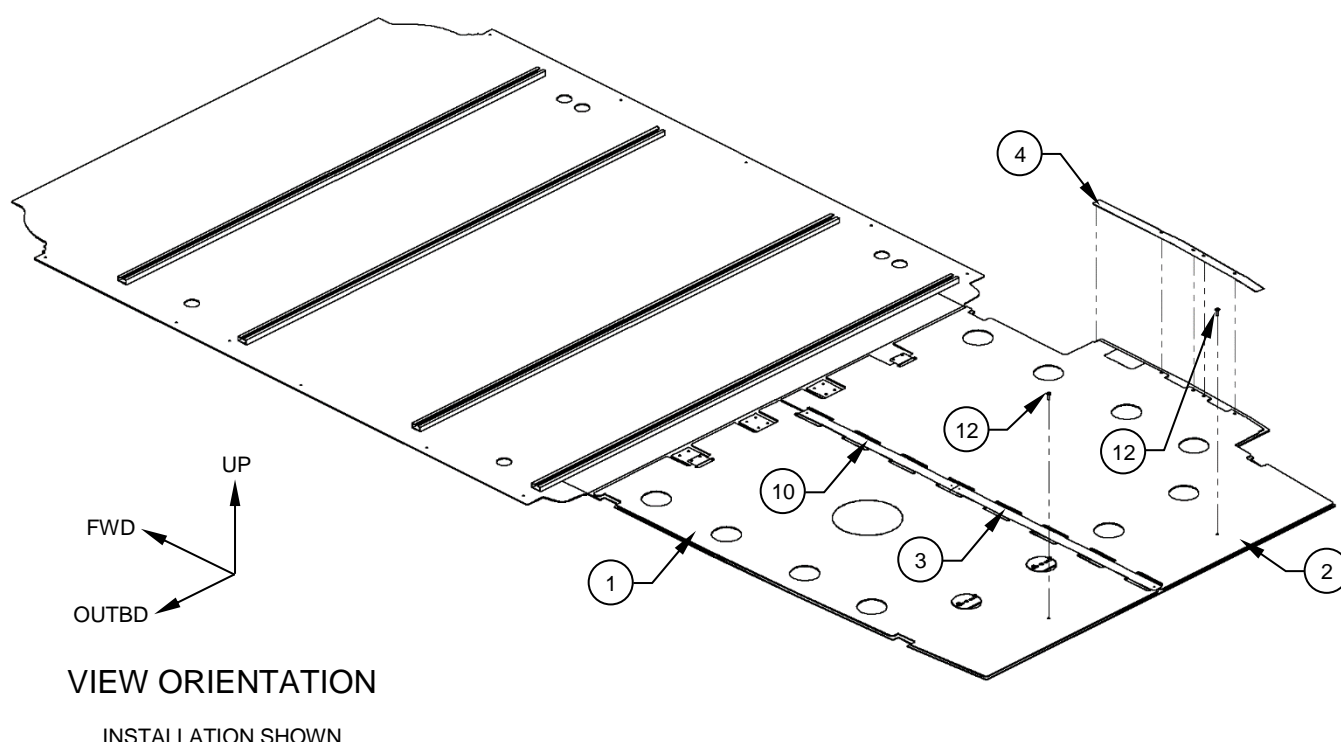


Figure 12
Some aircraft structure
Removed for clarity

Installation Instructions (cont.)

Floor Protection, Kit, AFT with OEM auxiliary fuel tank kit (429-706-500-101/-109)

7. Install the three Spacer, Assys (Item 6) in the previous tie-down locations prior to installing the Attach, Assys (429-066-512-101) per BHT-429-II-5. Reuse the original fasteners.

NOTE: Spacer, Assys (Item 6) must be oriented with the small notch facing FWD and the anti-chafe tape down.

8. Place the Spacer Assys (Item 7) in position under the fuel tank with the flat edge facing AFT and install the provided fasteners (Item 11) in the slotted holes. Install the fasteners provided with kit (429-706-500-101/-109) in the center hole as per BHT-429-II-5.

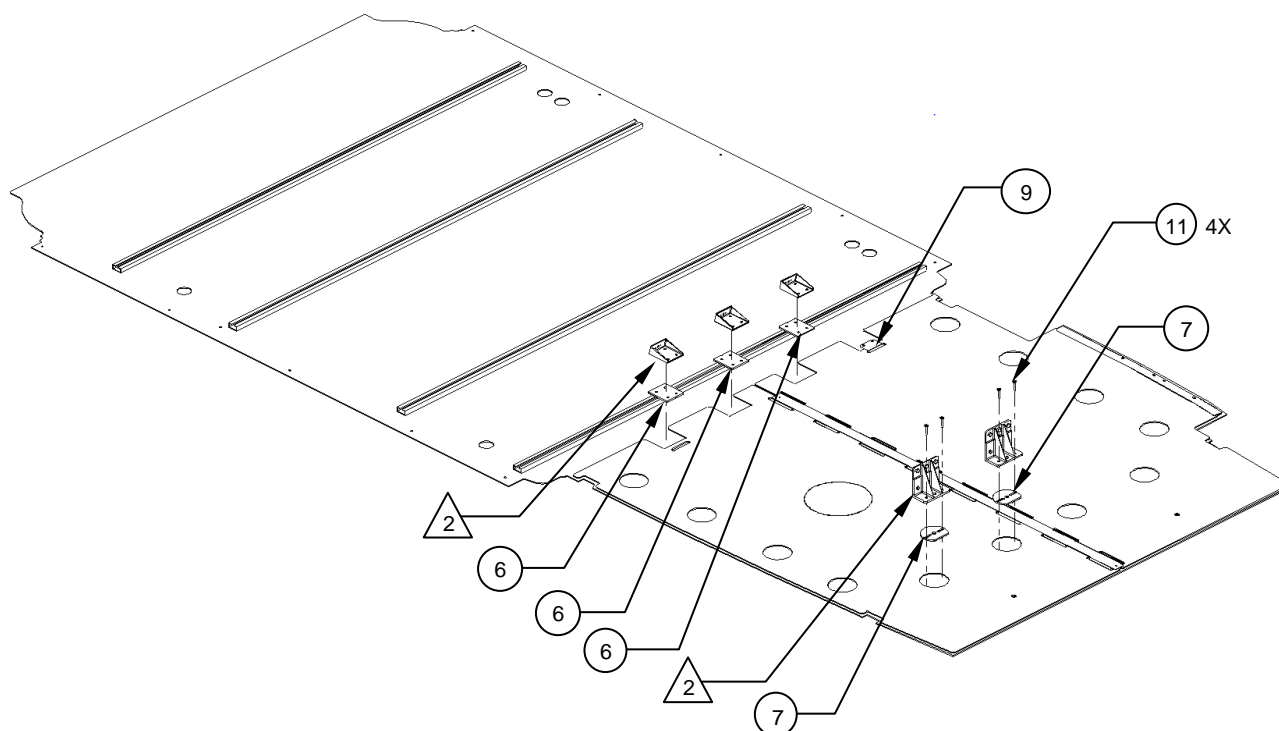


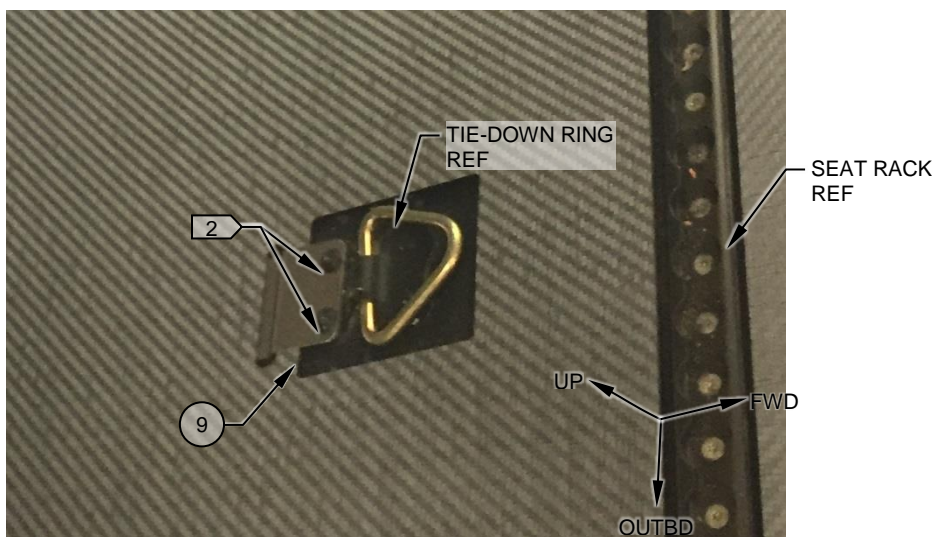
Figure 13

Some aircraft structure
Removed for clarity

Installation Instructions (cont.)

Floor Protection, Kit, AFT with OEM auxiliary fuel tank kit (429-706-500-101/-109)

9. Remove the AFT two screws from the RHD FWD most triangular tie-down ring in the cargo area and install the Retainer, Assemblies (Item 9) re-using the OEM fasteners. Reference Figure 13 and 14.



VIEW ORIENTATION

INSTALLATION SHOWN

Figure 14
Installation Shown

10. Perform the remainder of the installation of the auxiliary fuel tank, kit (429-706-500-101/-109) per the instructions provided in BHT-429-II-5.
11. Installation complete
12. Perform a General Inspection of all items to ensure proper installation.
13. Update the aircraft logbook for the installation of Floor Protection, Kit AFT.

Removal Instructions

6. Remove all components associated with the Floor Protection, Kit, AFT.
7. Replace Screw, Washer Head (Item 10), with OEM fasteners.
8. Peel and remove the Velcro®, Detail (Item 8) from the fuel filler door, and clean off any residual adhesive. It is permitted to leave the Velcro®, Detail (Item 8) in place if the operator chooses.
9. Perform a General Inspection of all items to ensure proper removal.
10. Update the aircraft logbook for the removal of the Floor Protection, Kit, AFT.

Appendix A: Modification to Accommodate Installation with AAI Baggage Door Opener Kit

This modification allows the use of the Floor Protection, Kit, AFT in conjunction with the Aeronautical Accessories Inc, Door Opener Kit PN 429-516-001.

1. Prior to installation of the installation of the Panel, Assy, RHS, Item 2, cut the tabs retaining the knockout panel and remove. See Figure 15, 16 & 17.
2. Line the Sill, Detail, Item 4, up with its corresponding mounting holes on the Panel, Assy, RHS, Item 2. Trim the Sill, Detail, Item 4, .050" AFT of the edge of the knockout panel, and radius the new corners. See Figure 15, 16 & 17.
3. Continue with the installation as per instructions in this document.

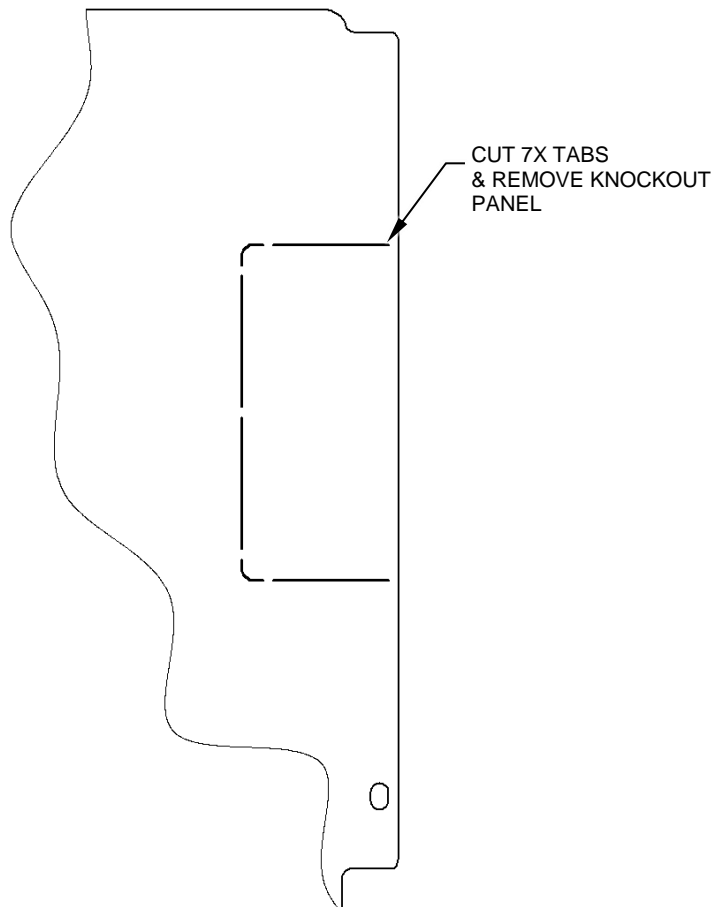


Figure 15
Knockout Panel
Shown

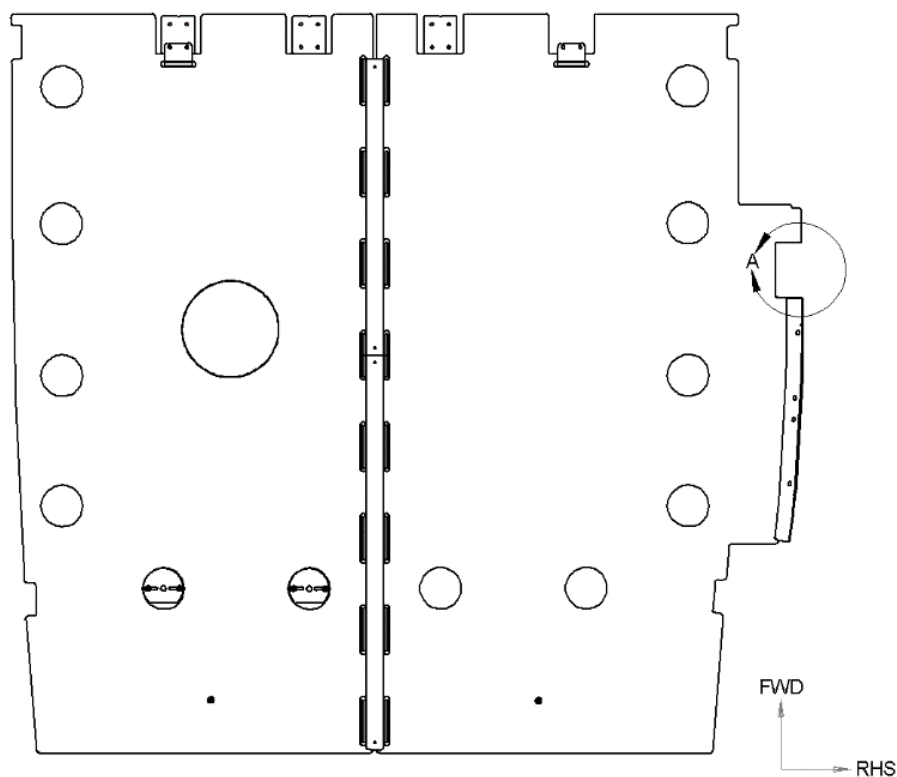


Figure 16
Knockout panel and
Sill, Detail trim
Shown

VIEW LKG DOWN
SCALE NONE
AAI BAGGAGE DOOR
OPENER KIT MODIFICATION
SHOWN

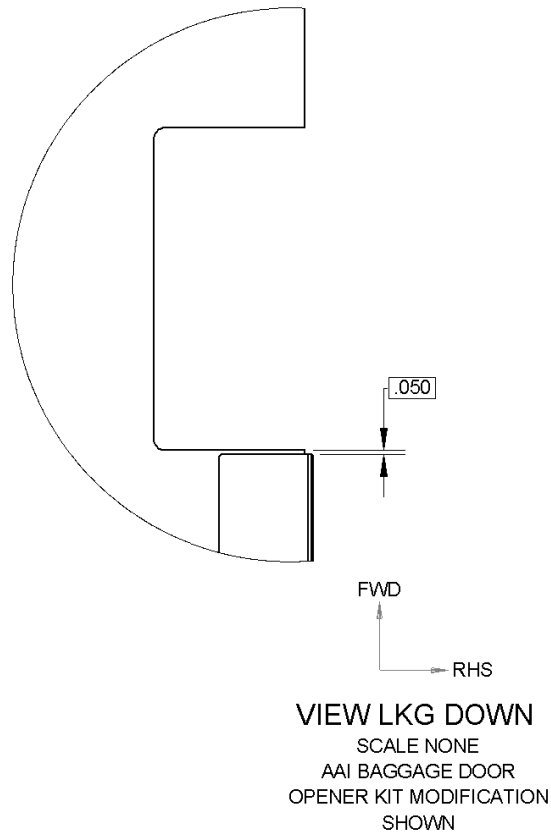


Figure 17
Sill, Detail
Trim
Shown