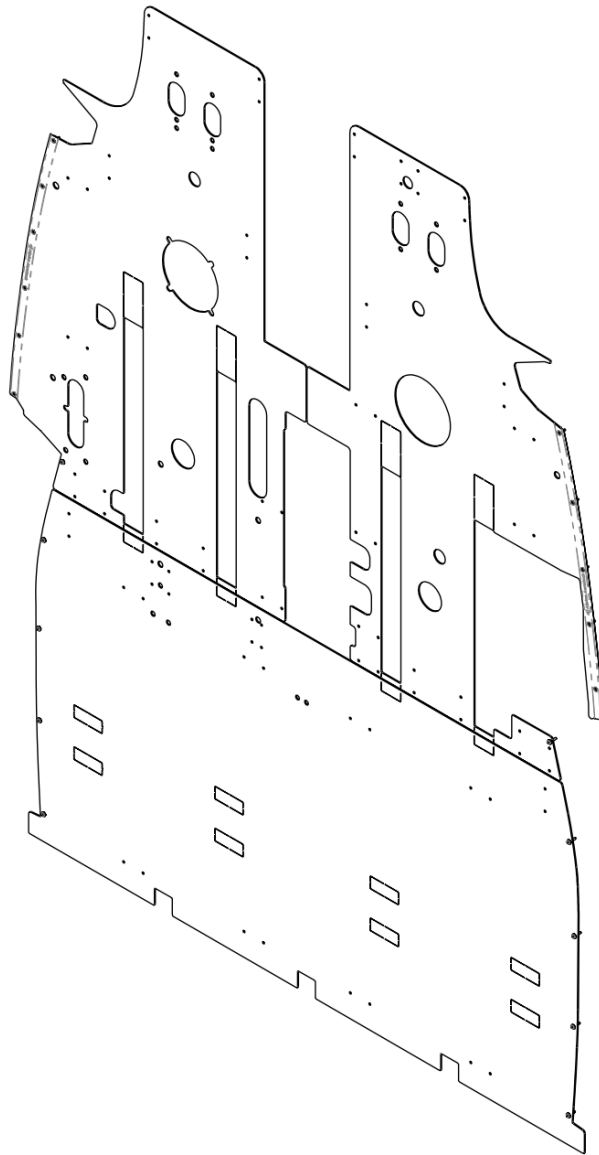




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## **LHS RHS SLIDING DOOR, LONG LINE FLOOR PROTECTION, KIT INSTRUCTIONS FOR CONTINUING AIRWORTHINESS**

### **MODELS: EUROCOPTER AS350\***

\*With AFT sliding doors and long line window installed

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



## **Table of Contents**

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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**

### **Description**

The following information provides a functional description of the LHS RHS Sliding Door, Long Line Floor Protection, Kit as defined in Alpine Aerotech LP authority dataset AAL-312-020-006.

- The Floor Protection, Kits are 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 LHS RHS Sliding Door, Long Line 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: Maintenance Manual Supplement**

### **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 revisions of the Eurocopter AS350 Master Service Manual for the for Instructions for Maintenance/Inspection with respect to the item(s) referenced within this document.
3. Refer to the Section 3: Installation & Removal Instructions and Section 4: 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 the Repair Procedures specified.
6. Limitations for the item(s) referenced within this document are IAW the Airworthiness Limitations specified.



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## **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 applicable Master Service Manual, Chapters 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.



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## **Inspection Procedures**

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

#### **Notes**

1. Refer to the applicable Master Service Manual, Breakdown of the MSM Section 7, for general information on inspections, inspection definitions, inspection intervals, inspection methods and inspection schedules.
2. General Inspections, as indicated within this document, are defined as visual, non-thorough checks.
3. Detailed Inspections, as indicated within this document, are defined as visual and thorough, searching checks.
4. Perform Daily Inspections every day, prior to flight operation. If damage is detected, perform the 150 Hour/12 Month Inspections.
5. Perform 150 Hour/12 Month Inspections every 150 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**

Data Reference: Section 3: Installation and Removal Instructions  
Section 4: Illustrated Parts Breakdown

- i. Perform a General Inspection on the LHS RHS Sliding Door, Long Line Floor Protection, Kit, Installation for general condition.
- ii. Perform a General Inspection on the LHS RHS Sliding Door, Long Line Floor Protection, Kit, Installation for proper security.



### Scheduled Inspections

#### 2. 150 Hour/12 Month Inspections

Data Reference: Section 3: Installation and Removal Instructions  
Section 4: Illustrated Parts Breakdown

- I. Perform a Detailed Inspection on all items to ensure proper security.
- II. Perform a Detailed Inspection on all items/materials to ensure proper integrity.
- III. Perform a Detailed Inspection on the LHS RHS Sliding Door, Long Line Floor Protection, Kit to ensure that it is not delaminating.
- IV. Perform a Detailed Inspection on all surfaces & locations with Velcro applied to ensure no damage has occurred to the aircraft.



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### **Repair Procedures**

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



### **Section 3: Installation & Removal Instructions**

#### **Weight & Balance**

<u>Part Number</u>	<u>Description</u>	<u>Weight</u>	<u>Long. Arm</u>	<u>Lat. Arm</u>
AAL-312-020-006	LHS RHS Sliding Door, Long Line Floor Protection, Kit	13.18* 5.978 (Kg)	68.533 1.741 (m)	.977 LBL .025 (m)

\* Total increase in weight to aircraft.

#### **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.



Alternate Part: DIN965-M4 x 16



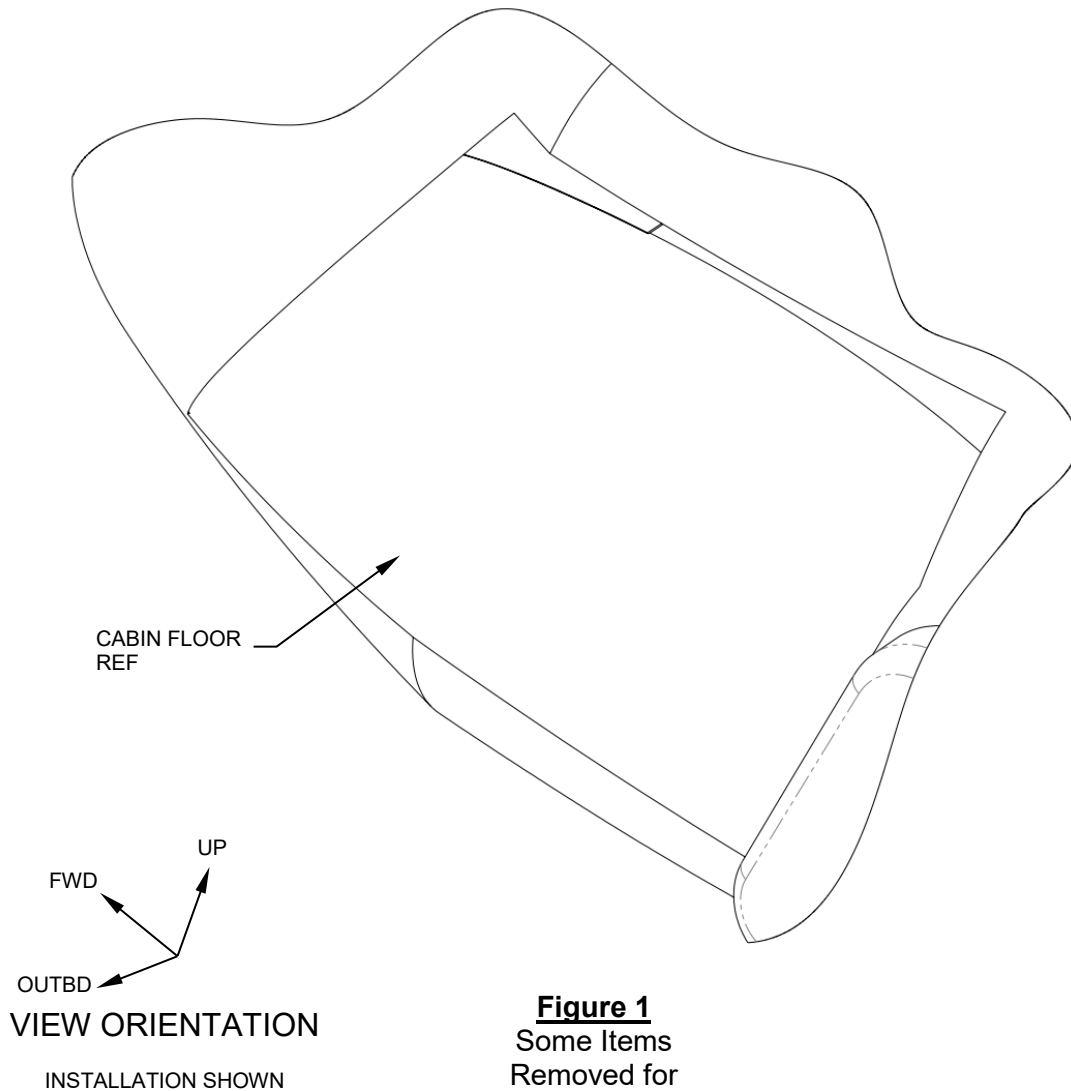
Alternate Part: DIN7985-M4 x 18





## **Installation Instructions**

1. Gain access to the cabin floor, temporarily remove all seats, LHS collective, & foot pedals. Remove any existing floor board protection kits, door sills, sliding door transition sill and all related fasteners. Reference Figure 1.



**Figure 1**  
Some Items  
Removed for  
Clarity

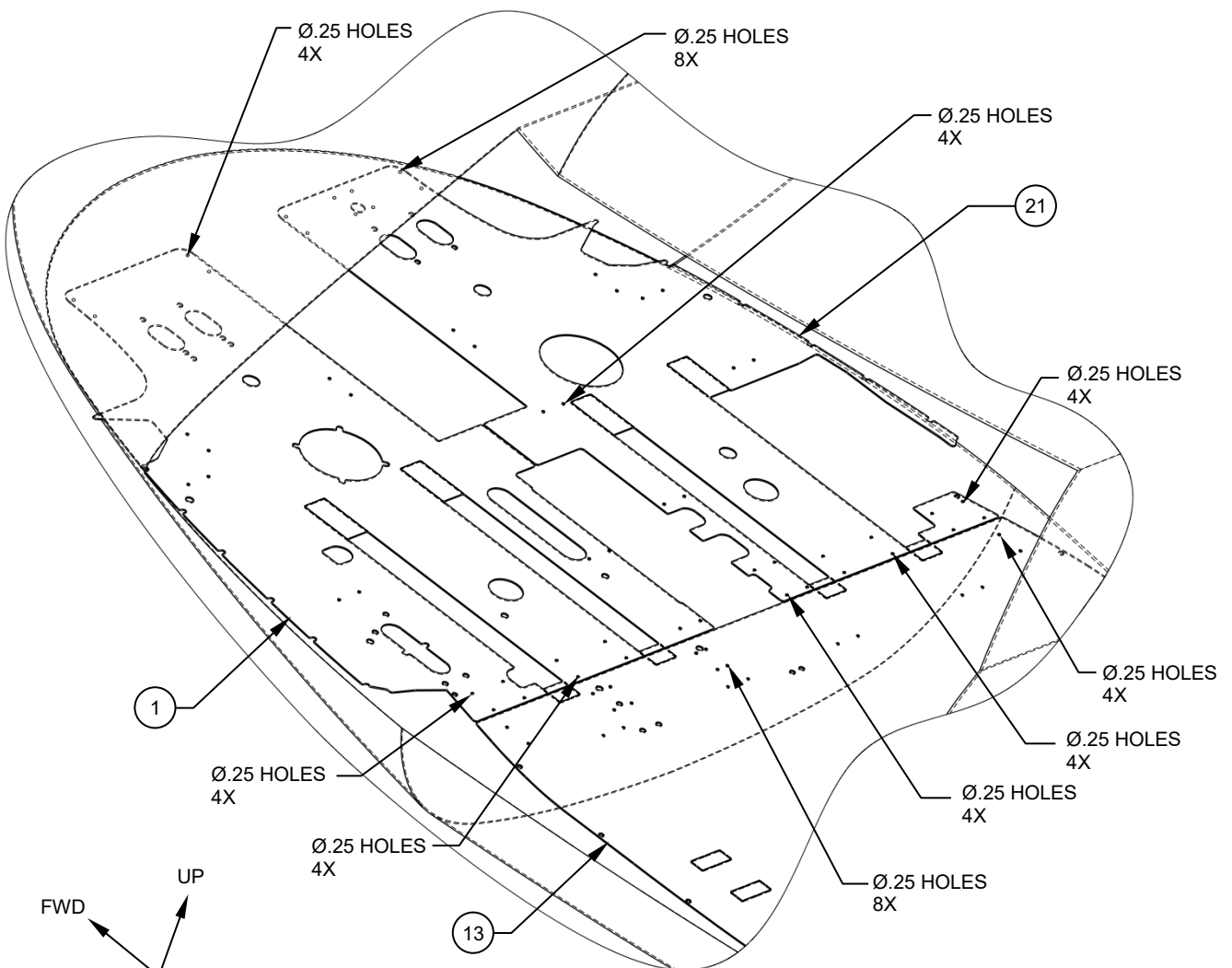


## **Installation Instructions**

2. Pre-fit the FWD LHS Sliding Door Floor Protection, Assy (Item 1), FWD RHS Sliding Door, Long Line Floor Protection, Assy (Item 21), & AFT LHS RHS Sliding Door Floor Protection, Assy (Item 13) by lining up the outboard edge of the panel, assy with the existing floor panel edge. Reference Figure 2.

**Note:** Ensure clearance around cutout features, cyclic, collective, & pedals etc.

3. With the panel lined up use the pre-cut Ø.25 holes and a felt pen to mark out the locations for the Velcro, Details (Items 9, 10, 11, 12, 19, 20, 29, 30, & 31) and remove the panels (Items 1, 13, & 21). Reference Figure 2 & 3.

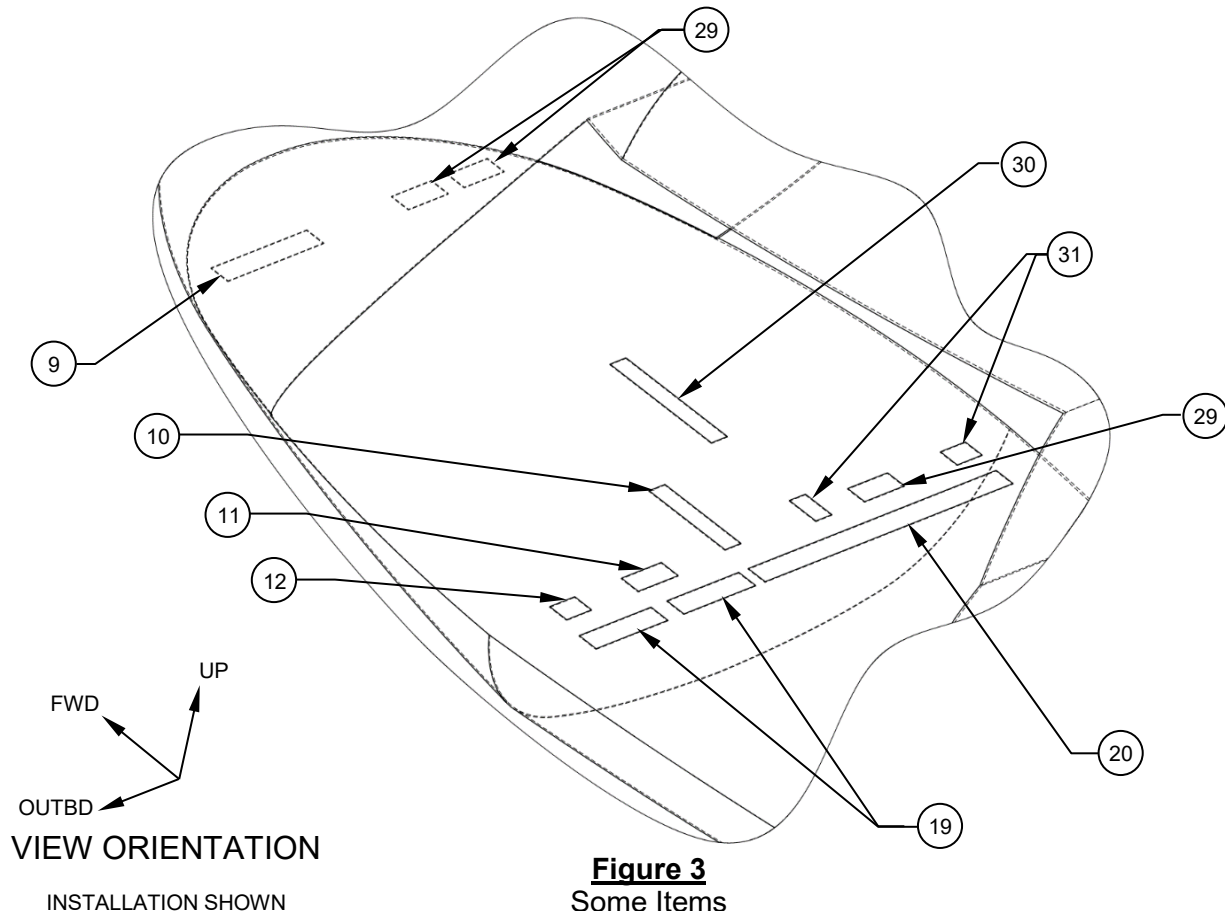


**Figure 2**  
Some Items  
Removed for  
Clarity



## **Installation Instructions**

4. Clean the areas between the felt pen marks with alcohol taking care not to wipe away the felt pen marks.
5. Individually separate each Velcro, Detail (Items 9, 10, 11, & 12) off of the FWD LHS Sliding Door Floor Protection, Assy (Item 1), Velcro, Detail (Items 29, 30, & 31) off of the FWD RHS Sliding Door, Long Line Floor Protection, Assy (Item 21), & Velcro, Detail (Items 19 & 20) off the AFT LHS RHS SLIDING Door Floor Protection, Assy (Item 13), peel adhesive backing from the Velcro, Details (Items 9, 10, 11, 12, 19, 20, 29, 30, & 31).
6. Using the felt pen marks as reference points, apply the Velcro, Details (Items 9, 10, 11, 12, 19, 20, 29, 30, & 31) to the floor board panel in their respective locations. Reference Figure 3. Apply adequate pressure to ensure a secure bond.

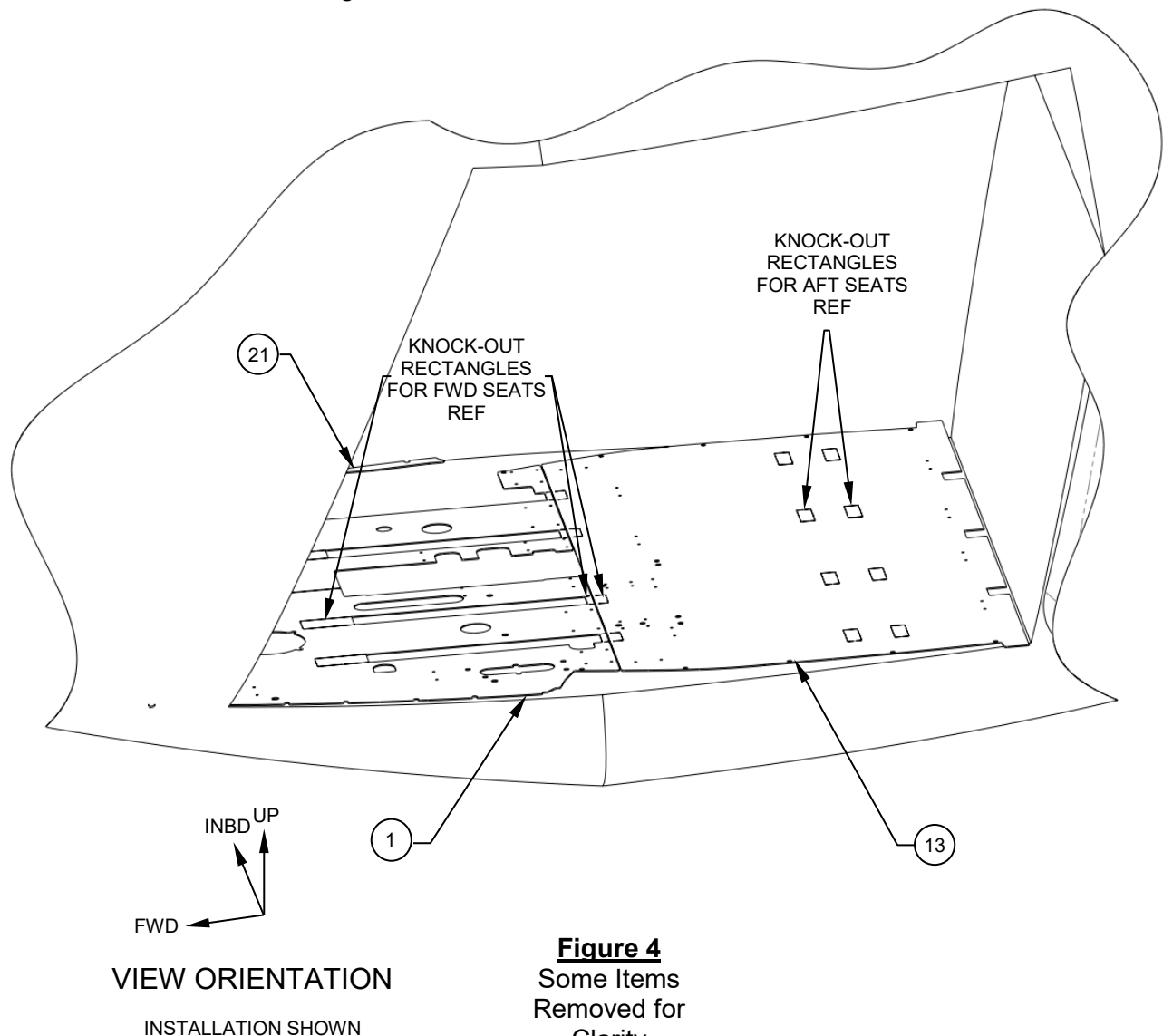


**Figure 3**  
Some Items  
Removed for  
Clarity



## **Installation Instructions**

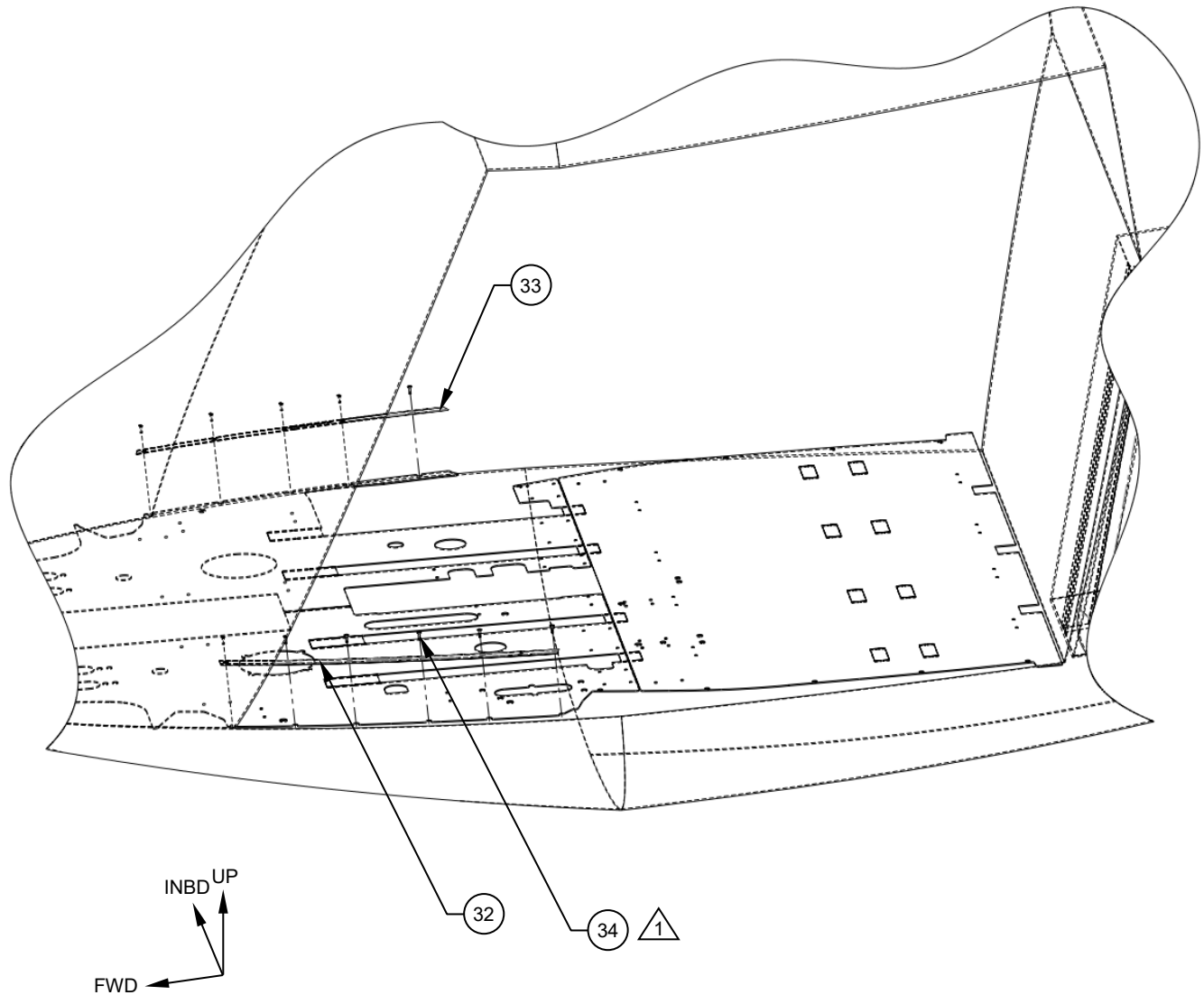
7. Re-install the FWD LHS Sliding Door Floor Protection, Assy (Item 1), FWD RHS Sliding Door, Long Line Floor Protection, Assy (Item 21), & AFT LHS RHS SLIDING Door Floor Protection, Assy (Item 13) onto Velcro strips. Reference Figures 2 & 3.
8. If required, use a sharp utility knife to remove the knock-out rectangles for FWD seats to fit your pilot and co-pilot seat configuration. Be careful not to score the aircraft floor panel with the knife. Reference Figure 4.
9. If required use a sharp utility knife to remove **EITHER** the FWD or AFT set of knock-out rectangles to allow the Aft seats to be properly fastened. Be careful not to score the aircraft floor panel with the knife. Reference Figure 4.





## **Installation Instructions**

10. If the original cut-out for the long line window does not match your aircraft's window profile, follow appendix 1 to trim it to the correct configuration.
11. Install Door Sill, Details (Items 32 & 33) as shown, using supplied hardware Screw, Machine (Item 34). Reference Figure 5.



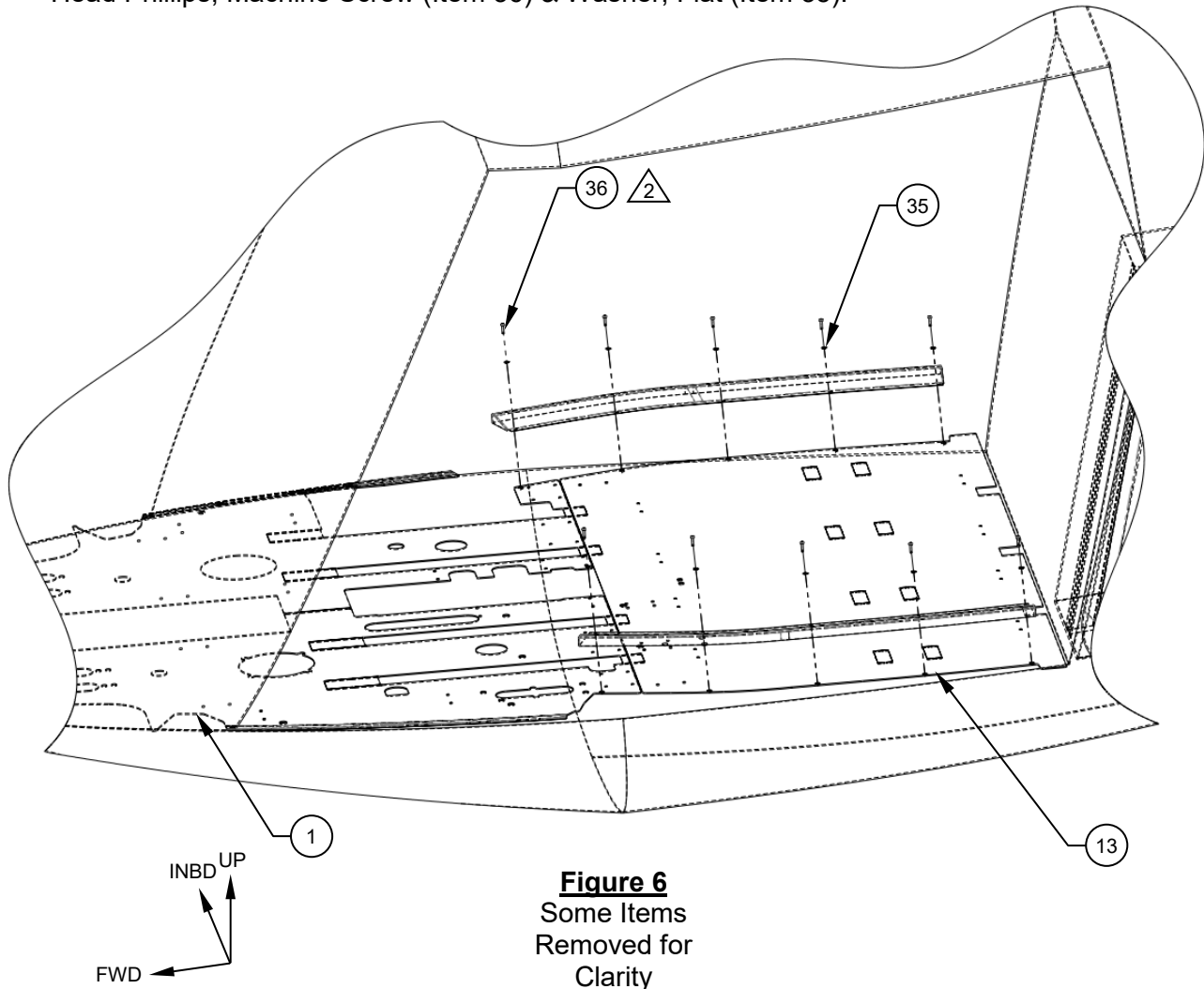
**VIEW ORIENTATION**  
INSTALLATION SHOWN

**Figure 5**  
Some Items  
Removed for  
Clarity



## **Installation Instructions**

12. Re-install the sliding door transition sill over top of the AFT LHS RHS Sliding Door Floor Protection, Assy (Item 13), FWD LHS Sliding Door Floor Protection, Assy (Item 1), & FWD RHS Sliding Door, Long Line Floor Protection, Assy (Item 21), and fasten with provided hardware, Pan Head Phillips, Machine Screw (Item 36) & Washer, Flat (Item 35).



**Figure 6**  
Some Items  
Removed for  
Clarity

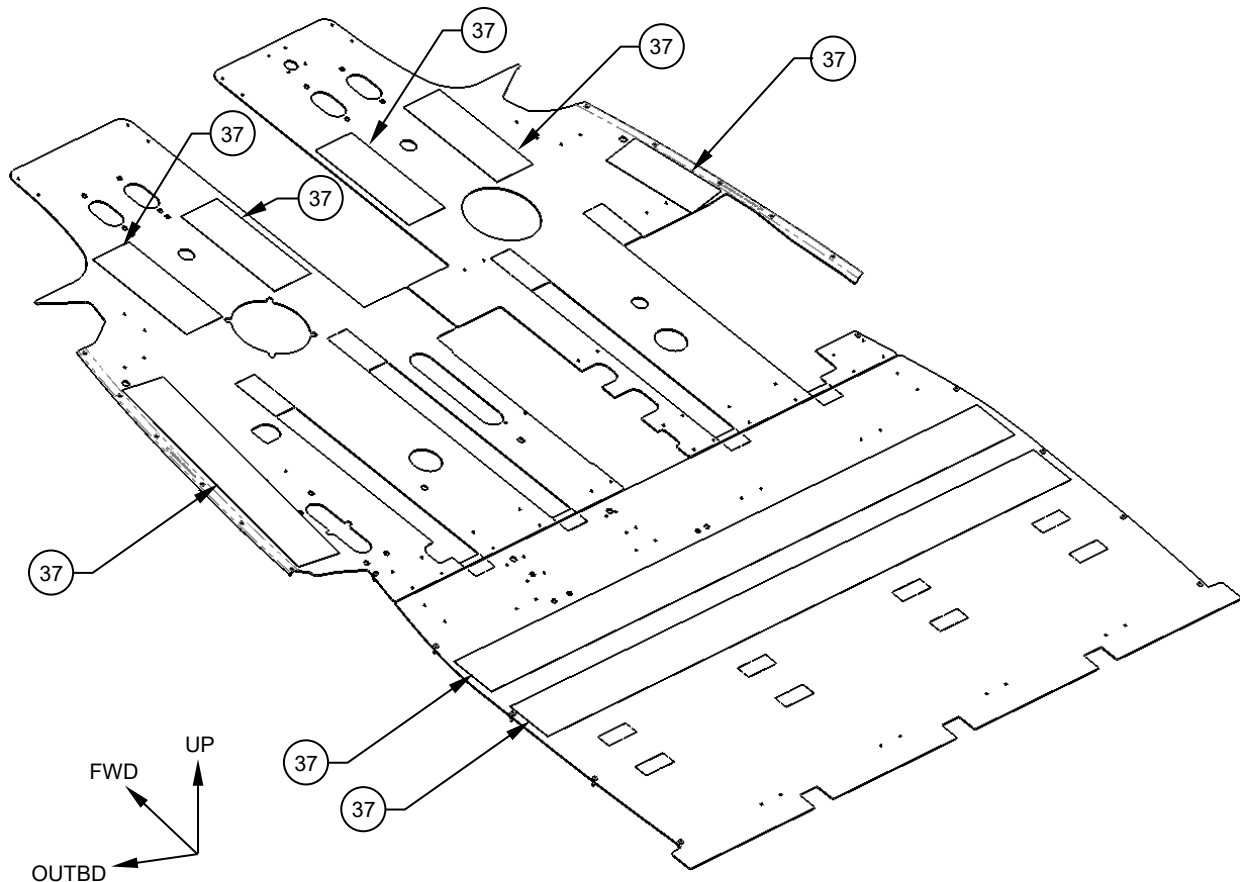
**VIEW ORIENTATION**

INSTALLATION SHOWN



## **Installation Instructions**

13. Suggested Grip Tape (Item 37), installation shown.



**VIEW ORIENTATION**  
INSTALLATION SHOWN

**Figure 7**  
Suggested Grip Tape (Item 37)  
Installation Shown  
Some Items  
Removed for  
Clarity

14. Installation complete.

15. Perform a General Inspection of all items to ensure proper installation.

16. Update the aircraft logbook for the installation of LHS RHS Sliding Door, Long Line Floor Protection, Kit.



### **Removal Instructions**

1. For the removal the LHS RHS Sliding Door, Long Line Floor Protection, Kit for either inspections, or mission configuration, the removal of the LHS RHS Sliding Door, Long Line Floor Protection, Kit can be considered the opposite of installation for step 7 & 8. For permanent removal, of LHS RHS Sliding Door, Long Line Floor Protection, Kit remove all bonded Velcro, Details.
2. Perform a General Inspection of all items to ensure proper removal.
3. Update the aircraft logbook for the removal of the LHS RHS Sliding Door, Long Line Floor Protection, Kit.



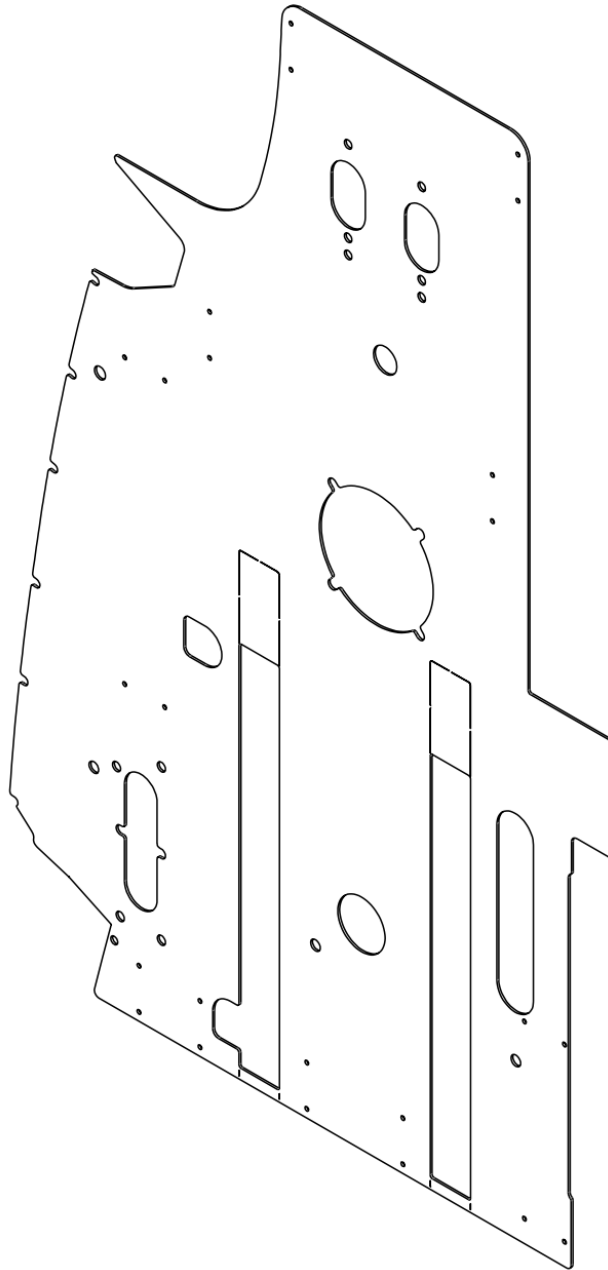


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#### **Section 4: Illustrated Parts Breakdown**



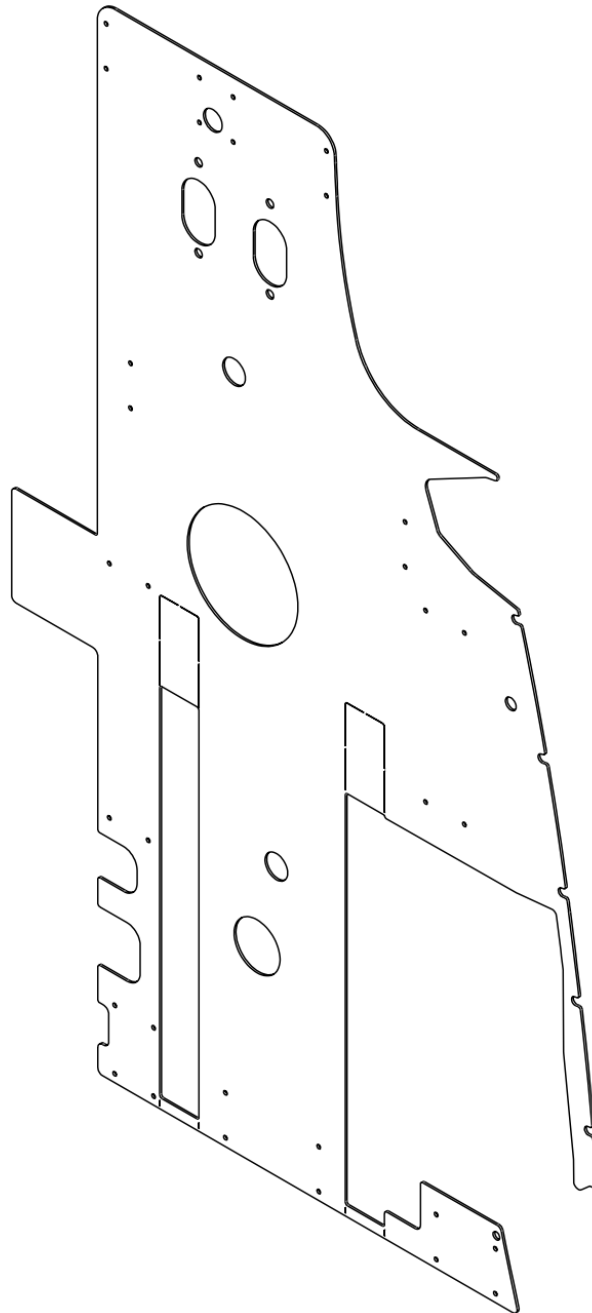
FWD LHS Sliding Door Floor Protection, Assy  
Shown  
Item 1



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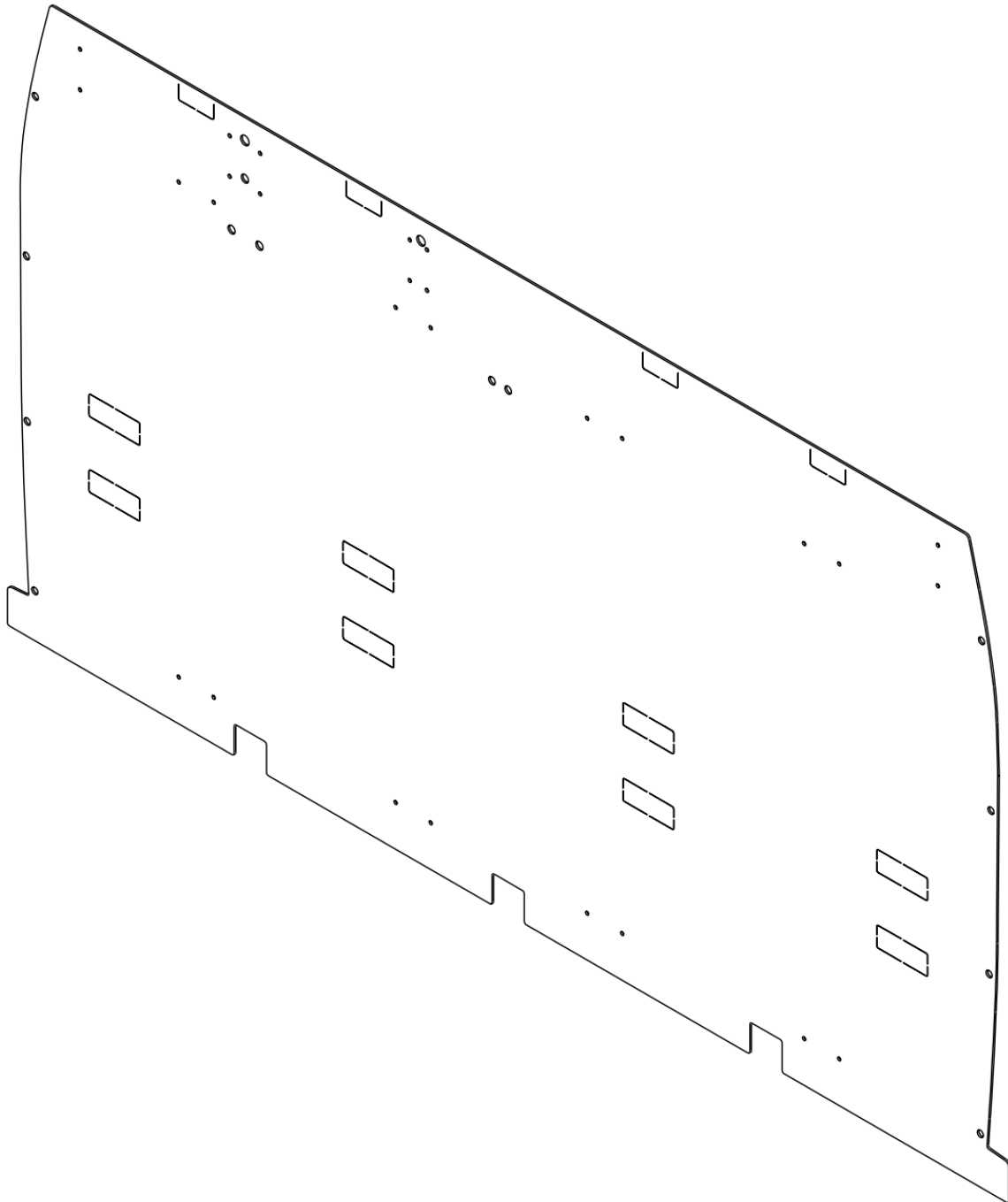
FWD RHS Sliding Door, Long Line Floor Protection, Assy  
Shown  
Item 21



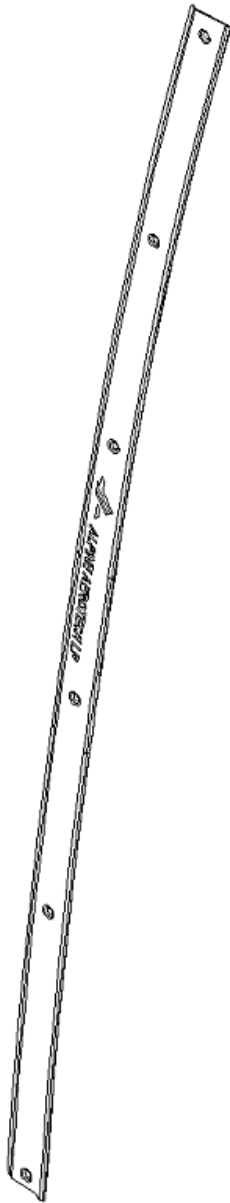
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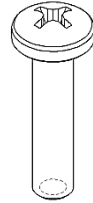
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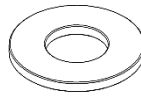
AFT LHS RHS Sliding Door Floor Protection, Assy  
Shown  
Item 13



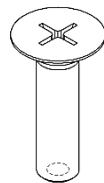
Door Sill, Detail  
Shown  
Item 32



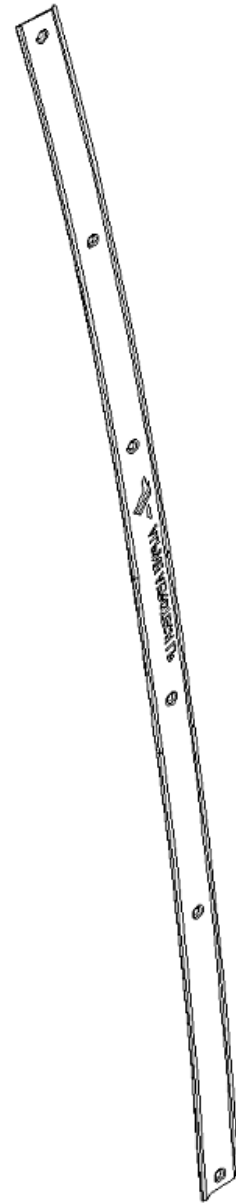
Pan Head Phillips,  
Machine Screw  
Shown  
Item 36



Washer, Flat  
Shown  
Item 35



Screw Machine  
Shown  
Item 34



Door Sill, Detail  
Shown  
Item 33



Grip Tape  
Shown  
Item 37



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ITEM	QTY	NUMBER	DESCRIPTION	MATERIAL	REF STOCK SIZE	SPEC	FINISH	MANUFACTURER	NCAGEC
-	-	AAL-312-020-006	LHS RHS SLIDING DOOR, LONG LINE FLOOR PROTECTION, KIT						
1	1	AAL-312-021-013	FWD LHS SLIDING DOOR FLOOR PROTECTION, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
2	1	AAL-312-021-004	FWD LHS SLIDING DOOR FLOOR PROTECTION, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
3	1	AAL-312-022-004	FWD LHS SLIDING DOOR FLOOR PROTECTION, DETAIL	P2C W/TUFFCOAT B/SIDES	0.1	SEE MFR	SEE MFR	ALPINE AEROTECH LP	L0171
4	1	151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 X 12.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
5	1	151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 X 9.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
6	2	151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 X 15.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
7	1	151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 x 5.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
8	1	151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 X 3.125	SEE MFR	SEE MFR	VELCRO USA INC.	11153
9	1	151405	VELCRO, DETAIL	HOOK 88, BLACK 8289 PSA	2 x 12.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
10	1	151405	VELCRO, DETAIL	HOOK 88, BLACK 8224 PSA	2 X 9.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
11	1	151405	VELCRO, DETAIL	HOOK 88, BLACK 8289 PSA	2 x 5.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
12	1	151405	VELCRO, DETAIL	HOOK 88, BLACK 8289 PSA	2 X 3.125	SEE MFR	SEE MFR	VELCRO USA INC.	11153
13	1	AAL-312-021-018	AFT LHS RHS SLIDING DOOR FLOOR PROTECTION, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
14	1	AAL-312-021-006	AFT LHS RHS SLIDING DOOR FLOOR PROTECTION, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
15	1	AAL-312-022-006	AFT LHS RHS SLIDING DOOR FLOOR PROTECTION, DETAIL	P2C W/TUFFCOAT B/SIDES	0.1	SEE MFR	SEE MFR	ALPINE AEROTECH LP	L0171
16	4	151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 X 26.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153

Revision: C

Date: 2024-08-06

Doc. No.: AAL-312-035-706

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ITEM	QTY	NUMBER	DESCRIPTION	MATERIAL	REF STOCK SIZE	SPEC	FINISH	MANUFACTURER	NCAGEC
17	1	151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 X 31.066	SEE MFR	SEE MFR	VELCRO USA INC.	11153
18	2	151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 X 9.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
19	2	151405	VELCRO, DETAIL	HOOK 88, BLACK 8224 PSA	2 X 9.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
20	1	151405	VELCRO, DETAIL	HOOK 88, BLACK 8289 PSA	2 X 31.066	SEE MFR	SEE MFR	VELCRO USA INC.	11153
21	1	AAL-312-021-016	FWD RHS SLIDING DOOR, LONG LINE FLOOR PROTECTION, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
22	1	AAL-312-021-010	FWD RHS SLIDING DOOR, LONG LINE FLOOR PROTECTION, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
23	1	AAL-312-022-010	FWD RHS SLIDING LONG LINE DOOR FLOOR PROTECTION, DETAIL	P2C W/TUFFCOAT B/SIDES	0.1	SEE MFR	SEE MFR	ALPINE AEROTECH LP	L0171
24	3	151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 x 5.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
25	1	151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 X 15.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
26	1	151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 X 9.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
27	1	151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 X 12.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
28	2	151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 X 3.125	SEE MFR	SEE MFR	VELCRO USA INC.	11153
29	3	151405	VELCRO, DETAIL	HOOK 88, BLACK 8289 PSA	2 x 5.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
30	1	151405	VELCRO, DETAIL	HOOK 88, BLACK 8289 PSA	2 x 12.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
31	2	151405	VELCRO, DETAIL	HOOK 88, BLACK 8289 PSA	2 X 3.125	SEE MFR	SEE MFR	VELCRO USA INC.	11153
32	1	AAL-312-022-013	DOOR SILL, DETAIL	301 1/4 HARD	0.025	AMS 5517	SEE SPEC	ALPINE AEROTECH LP	L0171



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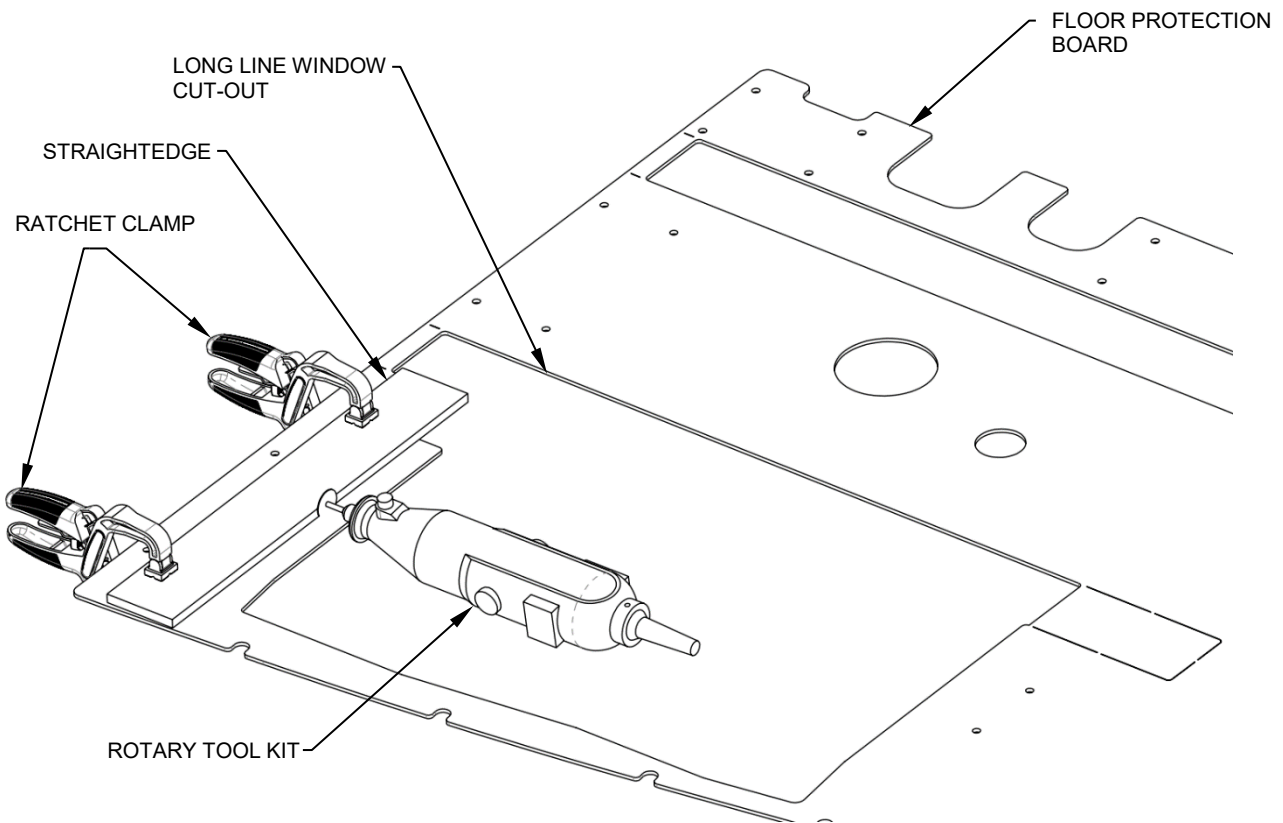
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ITEM	QTY	NUMBER	DESCRIPTION	MATERIAL	REF STOCK SIZE	SPEC	FINISH	MANUFACTURER	NCAGEC
33	1	AAL-312-022-014	DOOR SILL, DETAIL	301 14 HARD	0.025	AMS 5517	SEE SPEC	ALPINE AEROTECH LP	L0171
34	11	ISO 7046-1-M4 x 16	SCREW, MACHINE	SEE SPEC	SEE SPEC	ISO 7046-1	SEE SPEC	SOURCE AS REQUIRED	NA
35	10	NAS1149CN832R	WASHER, FLAT	SEE SPEC	SEE SPEC	NAS1149	SEE SPEC	SOURCE AS REQUIRED	NA
36	10	ISO 7045-M4 x 18	PAN HEAD PHILLIPS, MACHINE SCREW	SEE SPEC	SEE SPEC	ISO 7045	SEE SPEC	SOURCE AS REQUIRED	NA
37	1	3M SAFETY-WALK SLIP-RESISTANT GENERAL PURPOSE TAPES AND TREADS 620, CLEAR 4in - 70070975621 - 202"	SAFETY-WALK GENERAL PURPOSE GRIP TAPE	POLY-URETHANE	186.00"	NA	NFSI SCOF < 0.60	3M	NA



## Appendix 1: Instruction on Trimming the Long Line Window Cut-out

1. Ensure the floor protection panel is correctly positioned on the floor.
2. Cover the trimming area with masking tape and mark the trimming line on the tape, allowing for proper clearance for the operation of the window cover.
3. Remove the panel board from the aircraft and cut the straight lines using a rotary tool kit and discs.
4. Use a straightedge guide and ratchet clamps to hold it in place on the panel for an even and straight cut. Reference Figure A1.
5. Use a coping saw or a similar tool to cut the corners.
6. Finish the edges with a rasp, coarse file or coarse sandpaper. File in one direction towards the bottom side of the floor panel to protect the top surface coat.



**Figure A1**  
FOR REFERENCE ONLY

**NOTE**

**Additional trimming is permitted, provided that all mechanical retentions are maintained and there is no adverse effect on ingress or egress.**