

LHS RHS SLIDING DOOR FLOOR PROTECTION, KIT INSTRUCTIONS FOR CONTINUING AIRWORTHINESS

MODELS: EUROCOPTER AS350*

*With AFT LHS RHS sliding doors installed

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

Description

The following information provides a functional description of the LHS RHS Sliding Door Floor Protection, Kit as defined in Alpine Aerotech LP authority dataset AAL-312-020-002.

- 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 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.

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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 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) <u>not</u> 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 Floor Protection, Kit, Installation for general condition.
- ii. Perform a General Inspection on the LHS RHS Sliding Door Floor Protection, Kit, Installation for proper security.

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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 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 floor.

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Repair Procedures

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

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Section 3: Installation & Removal Instructions

Weight & Balance

 Part Number
 Description
 Weight
 Long. Arm
 Lat. Arm

 AAL-312-020-002
 LHS RHS Sliding Door Floor
 13.09*
 68.815
 .024 LBL

 Protection, Kit
 5.937 (Kg) 1.747 (m)
 .0006(m)

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

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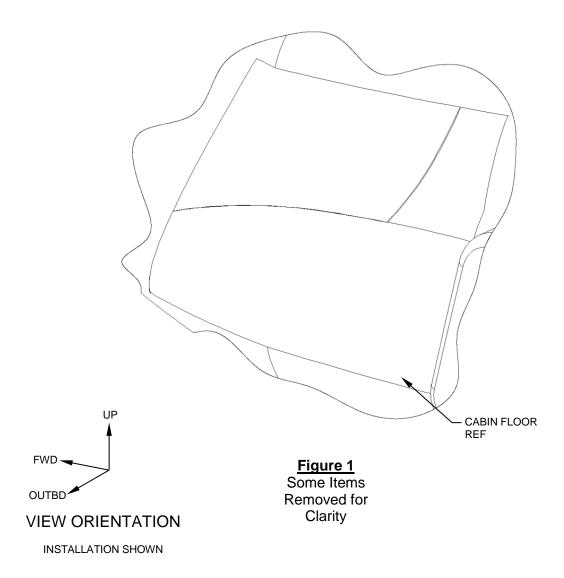
^{*} Total increase in weight to aircraft.





Installation Instructions

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



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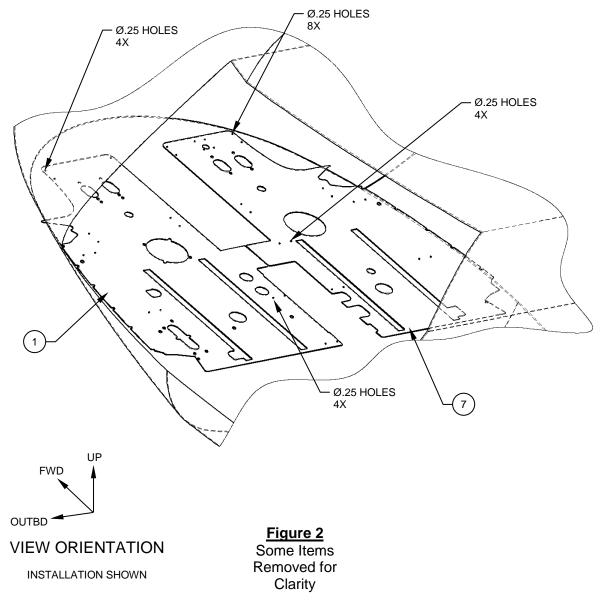


Installation Instructions

2. Pre-fit the FWD LHS Hinged Door Floor Protection, Assy (Item 1) & FWD RHS Hinged Door Floor Protection, Assy (Item 7) 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 6, 13 & 14) and remove the panels (Items 1 & 7). Reference Figure 2 & 3.



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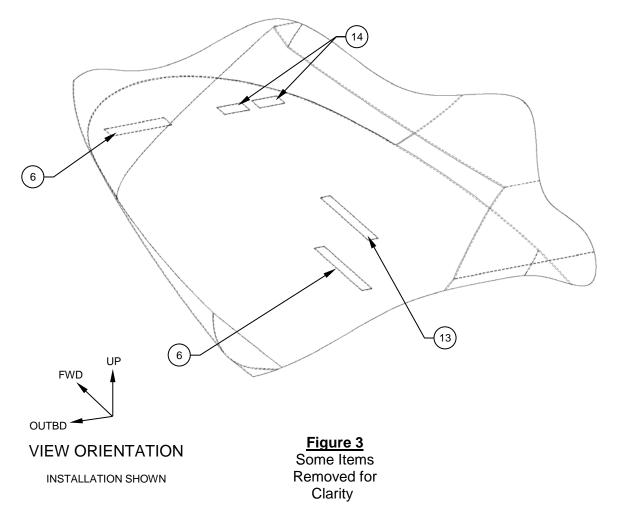
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Installation Instructions

- 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 (Item 6) off of the FWD LHS Hinged Door Floor Protection, Assy (Item 1) and Velcro, Detail (Items 13 & 14) off of the FWD RHS Hinged Door Floor Protection, Assy (Item 7) peel adhesive backing from the Velcro, Details (Items 6, 13 & 14).
- 6. Using the felt pen marks as reference points, apply the Velcro, Details (Items 6, 13 & 14) to the floor board panel in their respective locations. Reference Figure 3. Apply adequate pressure to ensure a secure bond.



7. Re-install the FWD LHS Hinged Door Floor Protection, Assy (Item 1) & FWD RHS Hinged Door Floor Protection, Assy (Item 7) onto Velcro strips. Reference Figures 2 & 3.

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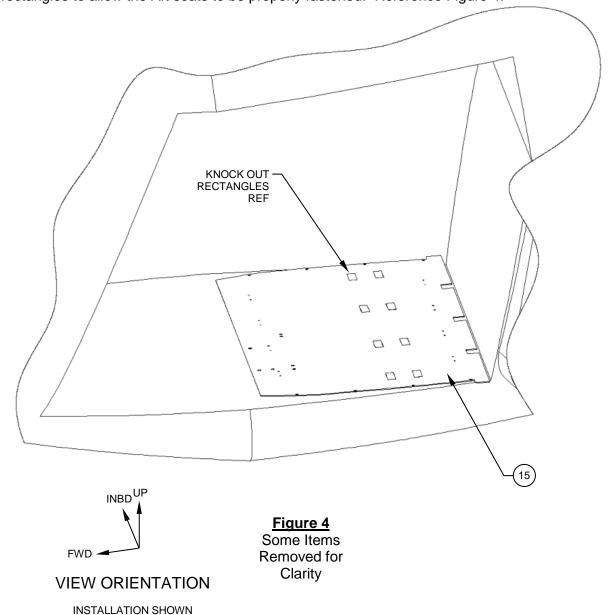


Installation Instructions

8. Fit the AFT Sliding Door Floor Protection, Assy (Item 15) by lining up the holes with the existing fasteners that hold down the sliding door transition sill. Reference Figure 4 & 6.

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

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. Reference Figure 4.



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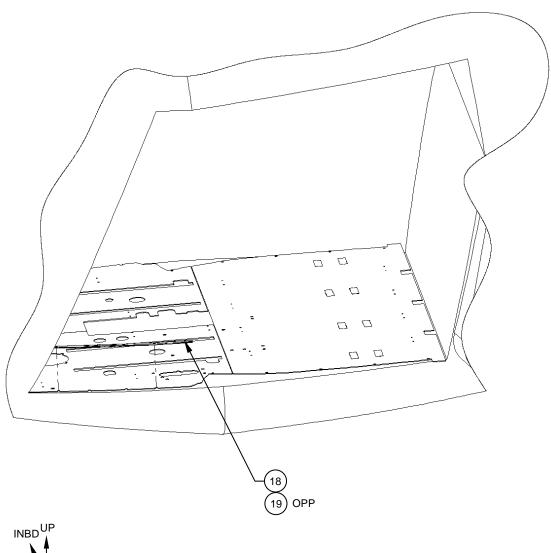
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Installation Instructions

10. Install Door Sill, Details (Items 18 & 19) as shown, with provided hardware, Screw, Machine (Item 20). Reference Figure 5.



INBD^{UP}

VIEW ORIENTATION

INSTALLATION SHOWN

Figure 5
LHS Shown RHS Opposite
Some Items
Removed for
Clarity

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Installation Instructions

 Re-install the sliding door transition sill over top of the AFT Sliding Door Floor Protection, Assy (Item 15) & FWD LHS Hinged Door Floor Protection, Assy (Item 1) and fasten with provided hardware, Pan Head Philips Machine, Screw (Item 22) & Washer, Flat (Item 21). Reference Figure 6.

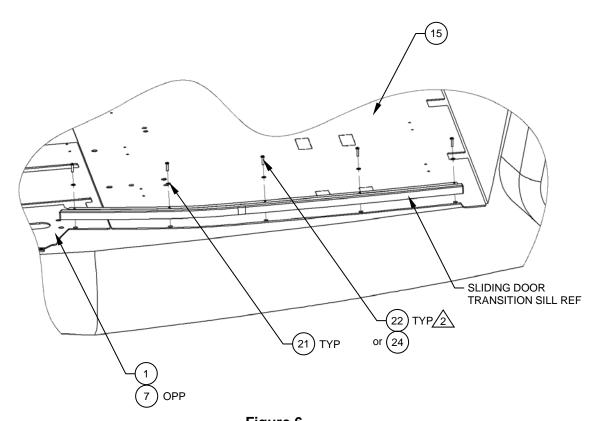


Figure 6
LHS Shown RHS Opposite
Some Items
Removed for
Clarity

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Installation Instructions

- 2. Installation complete
- 3. Perform a General Inspection of all items to ensure proper installation.
- 4. Update the aircraft logbook for the installation of LHS RHS Sliding Door Floor Protection, Kit.

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Removal Instructions

- 1. For the removal the LHS RHS Sliding Door Floor Protection, Kit for either inspections, or mission configuration, the removal of the LHS RHS Sliding Door Floor Protection, Kit can be considered the opposite of installation for step 7, 8 & 9. For permanent removal, of LHS RHS Sliding Door 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 Floor Protection, Kit.

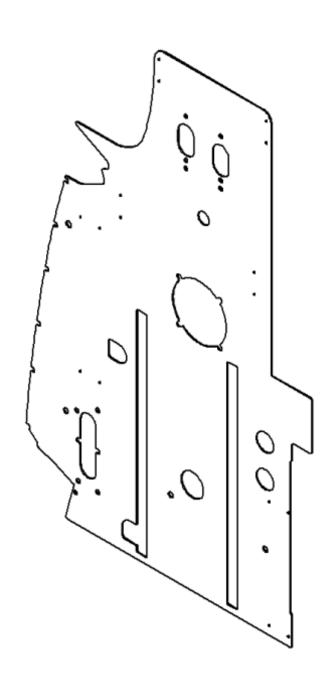
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Section 4: Illustrated Parts Breakdown



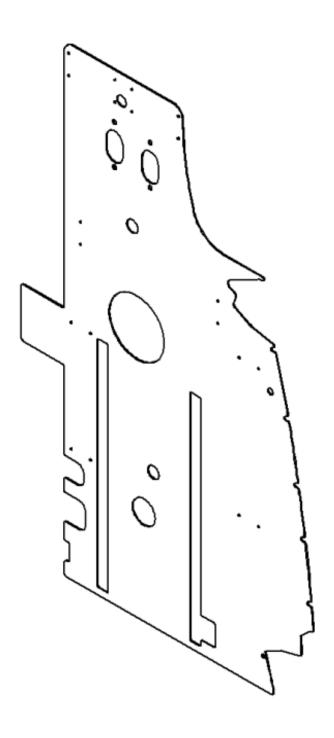
FWD LHS Sliding Door Floor Protection, Assy Shown Item 1

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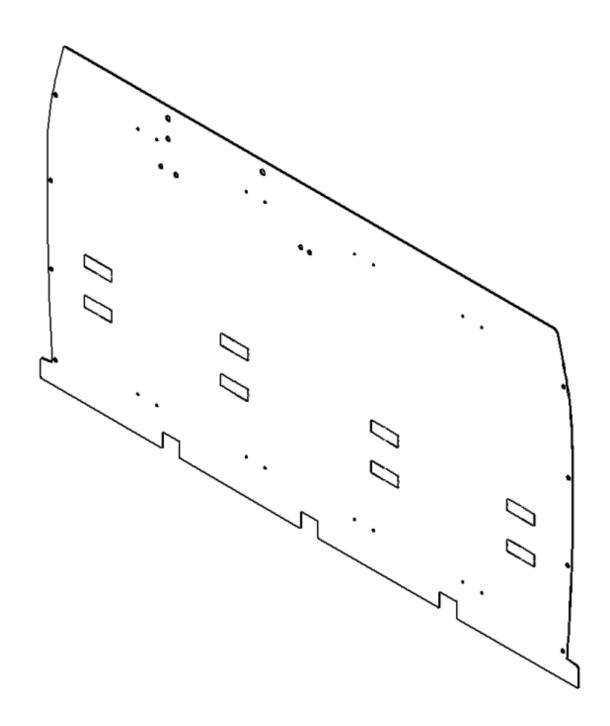
FWD RHS Sliding Door Floor Protection, Assy Shown Item 7

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AFT Hinged Door Floor Protection, Assy Shown Item 15

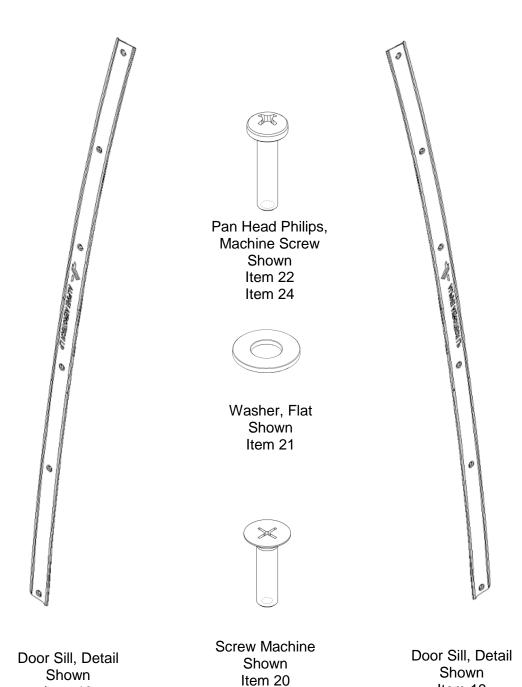
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Item 19



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Item 23





					REF					
ITEM	QTY	NUM BER	DESCRIPTION	MATERIAL	STOCK SIZE	SPEC	FINISH	MANUFACTURER	NCAGEC	
-	-	AAL-312-020-002	LHS RHS SLIDING DOOR FLOOR	C/O SHA DED ITEMS						
			PROTECTION, KIT	ONLY						
1	1	AAL-312-021-013	FWD LHS SLIDING DOOR	NA	NA	NA	NA	ALPINE A EROTECH LP	L0171	
'	ı	AAL-312-021-013	FLOOR PROTECTION, ASSY	IVA	IVA					
2	1	AAL-312-021-004	FWD LHS SLIDING DOOR							
	'		FLOOR PROTECTION, ASSY							
3	1	AAL-312-022-004	FWD LHS SLIDING DOOR	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171	
3	'	AAL 312 022 004	FLOOR PROTECTION, DETAIL		14/					
4	2	151394	VELCRO, DETAIL	LOOP 1000,	2 X 12.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153	
	_			BLACK, 8224 PSA						
5	2	151394	VELCRO, DETAIL	LOOP 1000,	2 X 15.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153	
_				BLACK, 8224 PSA						
6	2	151405	VELCRO, DETAIL	HOOK 88, BLACK	2 x 12.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153	
			•	8289 PSA				1 == 0.10 00/110.		
7	1	AAL-312-021-014	FWD RHS SLIDING DOOR	NA	NA	NA	NA	ALPINE A EROTECH LP	L0171	
			FLOOR PROTECTION, ASSY			1				
8	1	AAL-312-021-005	FWD RHS SLIDING DOOR							
			FLOOR PROTECTION, ASSY							
9	1	AAL-312-022-005	FWD RHS SLIDING DOOR	NA	NA	NA	NA	ALPINE A EROTECH LP	L0171	
		151394	FLOOR PROTECTION, DETAIL	LOOP 1000.	2 x 5.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153	
10	2		VELCRO, DETAIL							
				BLACK, 8224 PSA LOOP 1000,					+	
11	1	151394	VELCRO, DETAIL	BLACK, 8224 PSA	2 X 12.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153	
				LOOP 1000,					1	
12	2	151394	VELCRO, DETAIL	BLACK, 8224 PSA	2 X 15.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153	
				HOOK 88, BLACK					1	
13	2	2 151405	151405 VELCRO,	VELCRO, DETAIL	8289 PSA	2 x 5.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
		151405	VELCRO, DETAIL	HOOK 88, BLACK	2 x 12.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153	
14	1			8289 PSA						
4.5		AAL-312-021-006	AFT LHS RHS SLIDING DOOR	NA	NA	NA	NA	ALPINE A EROTECH LP	L0171	
15	1		FLOOR PROTECTION, ASSY							
10	,	AAL-312-022-006	AFT LHS RHS SLIDING DOOR	Ī _{NIA}	NA	NA	NA	ALPINE A EROTECH LP	L0171	
16	1		FLOOR PROTECTION, DETAIL	NA						
17	4	151394	VELCRO, DETAIL	LOOP 1000,	2 X 26.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153	
17	4			BLACK, 8224 PSA						

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					REF				
ITEM	QTY	NUMBER	DESCRIPTION	MATERIAL	STOCK SIZE	SPEC	FINISH	MANUFACTURER	NCAGEC
-	-	AAL-312-020-002	LHS RHS SLIDING DOOR FLOOR	C/O SHA DED ITEMS					
			PROTECTION, KIT	ONLY					
18	1	AAL-312-022-013	DOOR SILL, DETAIL	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
19	1	AAL-312-022-014	DOOR SILL, DETAIL	NA	NA	NA	NA	ALPINE A EROTECH LP	L0171
20	11	ISO 7046-1-M4 x 16	SCREW, MACHINE	SEE SPEC	SEE SPEC	ISO 7046-1	SEE SPEC	SOURCE AS REQUIRED	NA
21	10	NAS1149CN832R	WASHER, FLAT	SEE SPEC	SEE SPEC	NAS1149	SEE SPEC	SOURCE AS REQUIRED	NA
00	40	0 ISO 4045-M4 x 18	PAN HEAD PHILLIPS,	SEE SPEC	SEE SPEC	ISO 4045	SEE SPEC	SOURCE AS REQUIRED	NA
22 10	10		MACHINE SCREW						
23	11	MS24693-S273	SCREW, MACHINE	SEE SPEC	SEE SPEC	NAS24693	SEE SPEC	SOURCE AS REQUIRED	NA
24	10	MS35207-265	PAN HEAD PHILLIPS,	SEE SPEC	SEE SPEC	NA SM35206	SEE SPEC	SOURCE AS REQUIRED	NA
24 10	10		MACHINE SCREW						

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