

CABIN FLOOR PROTECTION, KIT INSTRUCTIONS FOR CONTINUING AIRWORTHINESS

MODELS: BELL 505

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: INTRODUCTION

This document comprises Instructions for Continuing Airworthiness that apply to the Cabin Floor Protection, Kit, FWD, installed on Bell 505 rotorcraft. The information and data contained in this document are supplemental to the information contained in the existing ICA for the Bell 505

Applicability

The Cabin Floor Protection, Kit (AAL-312-060-901) is applicable to all serial numbers of Bell 505 rotorcraft with OEM interiors.

SECTION 2: DESCRIPTION

The following information provides a functional description of the Cabin Floor Protection, Kit as defined in Alpine Aerotech LP datasets AAL-312-060-901.

- The Cabin 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 Cabin 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 3: OPERATION

1. With the Cabin Floor Protection, 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 revisions of the Bell 505 Maintenance Manual for Instructions for Maintenance/Inspection with respect to the item(s) referenced within this document.
3. Refer to the Section 6: Removal/Replacement Instructions 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 the Repair Procedures specified.
6. Limitations for the item(s) referenced within this document are IAW the Airworthiness Limitations specified.

Inspection Procedures

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

Notes

1. Refer to the applicable Maintenance Manual, Chapter 4, 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 600 Hour/12 Month Inspections every 600 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. 600 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 Cabin 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.

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

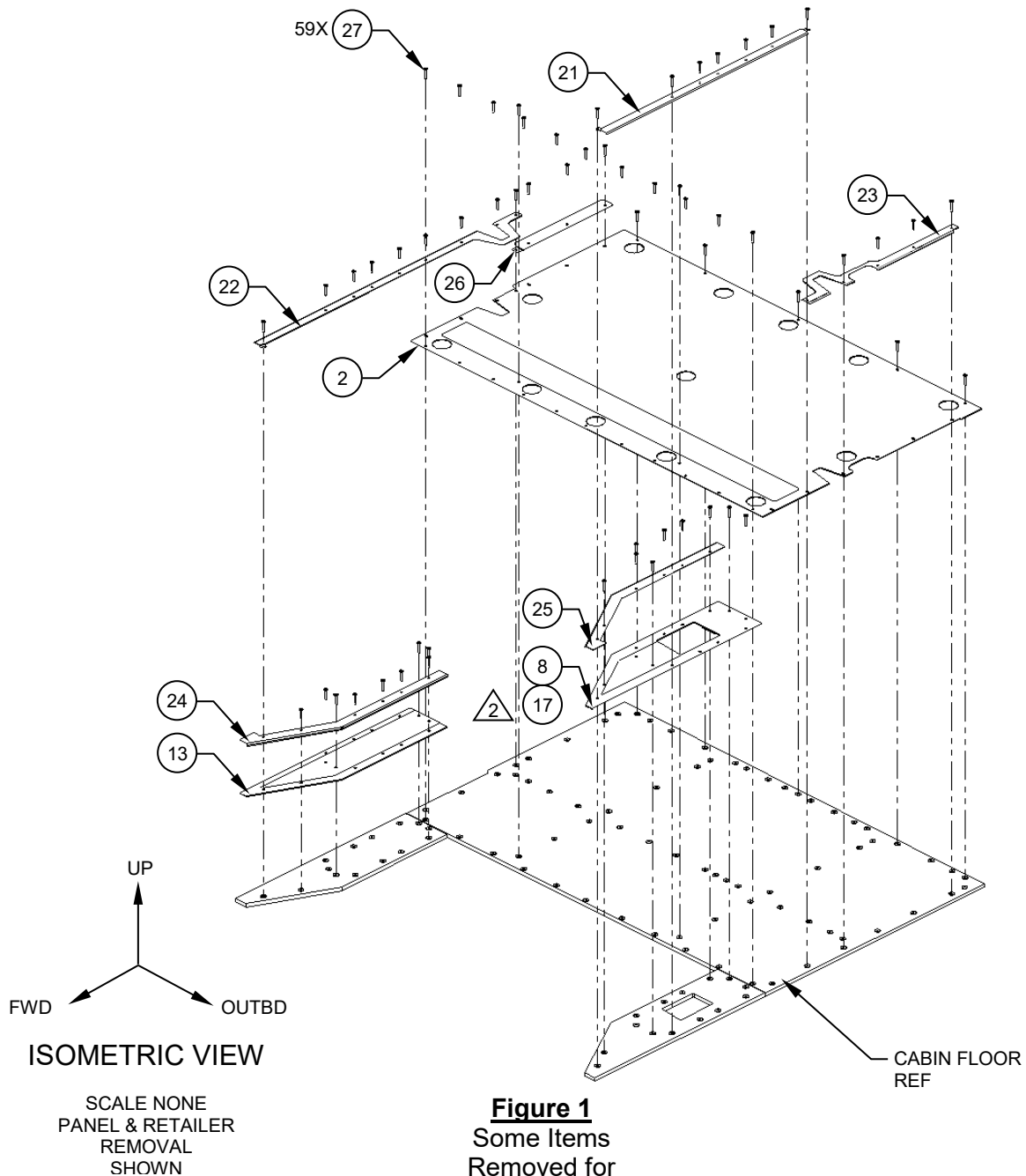
General Notes

1. All 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 4: Maintenance Instructions for instructions on maintenance for the item(s) referenced within this section.
 4. Refer to the Section 9: Illustrated Parts Breakdown for the part numbers of the item(s) referenced within this section.
-  Remove and retain for future use.
-  Install for Non Dual Configuration

6.1 REMOVAL INSTRUCTIONS

AFT Cabin Floor Protection, Kit, AAL-312-060-001

1. Gain access to the aircraft and make ready for maintenance. Temporarily remove all passenger seats. Reference Figure 1.



Removal Instructions (cont.)

AFT Cabin Floor Protection, Kit, AAL-312-060-001

2. Remove 59x Screw, Washer Head, (Item 27), in the locations shown. Reference Figure 1.
3. Remove the 1x LHS FWD Sill, Detail, (Item 21), 1x RHS FWD Sill, Detail, (Item 22), 1x LHS AFT Sill, Detail, (Item 23), 1x RHS INBD Sill, Detail, (Item 24), 1x LHS INBD Sill, Detail, (Item 25), and 1x RHS AFT, Sill, Detail, (Item 26), from their respective locations. Reference Figure 1.
4. Remove either, LHS, FWD Panel, Assy, (Item 8), or LHS, FWD Panel, Non Dual, Assy, (Item 5), from it's respective location. Reference Figure 1.
5. Remove the AFT Cabin Floor Protection, Assy, (Item 2), and the RHS, FWD Panel, Assy, (Item 13) in their respective locations. Reference Figure 2.
6. Remove 41X Screw, Washer Head, (Item 27), in locations shown. Reference Figure 2.
7. Re-install 100x OEM fasteners. Reference Figures 1 & 2.

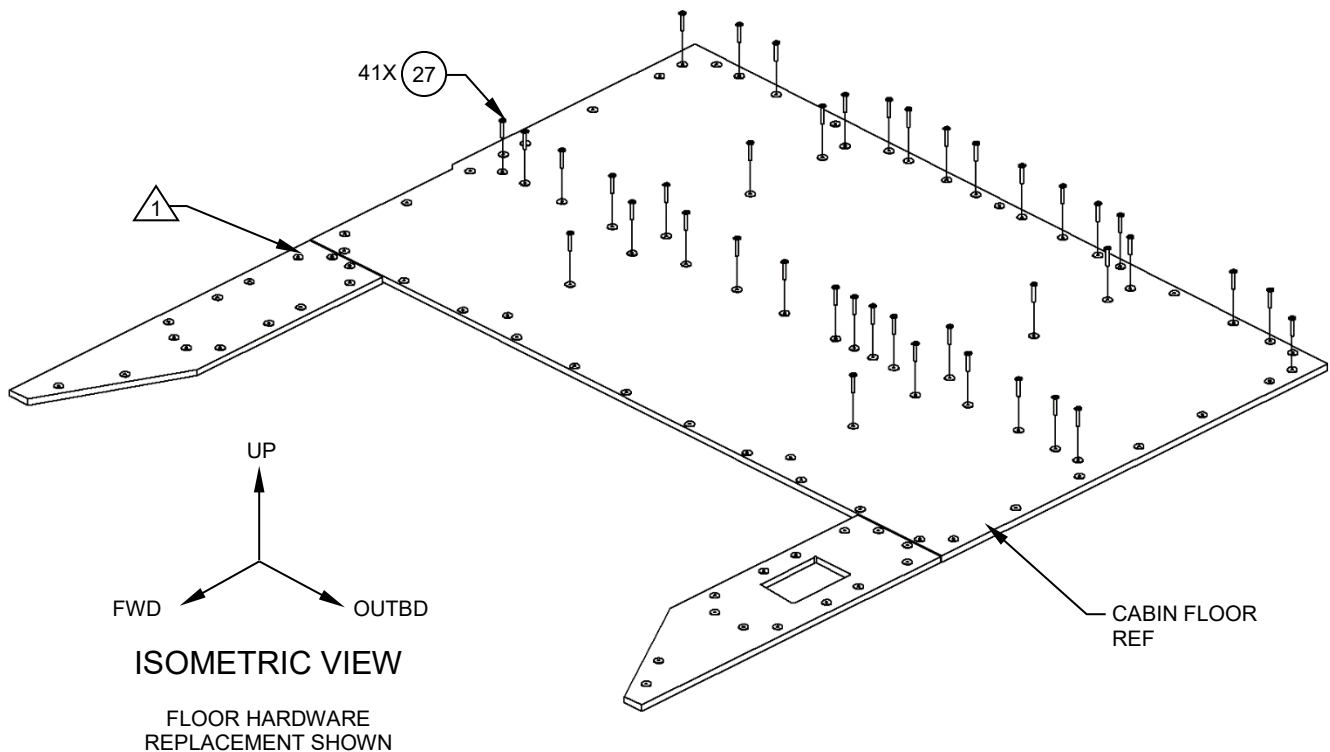


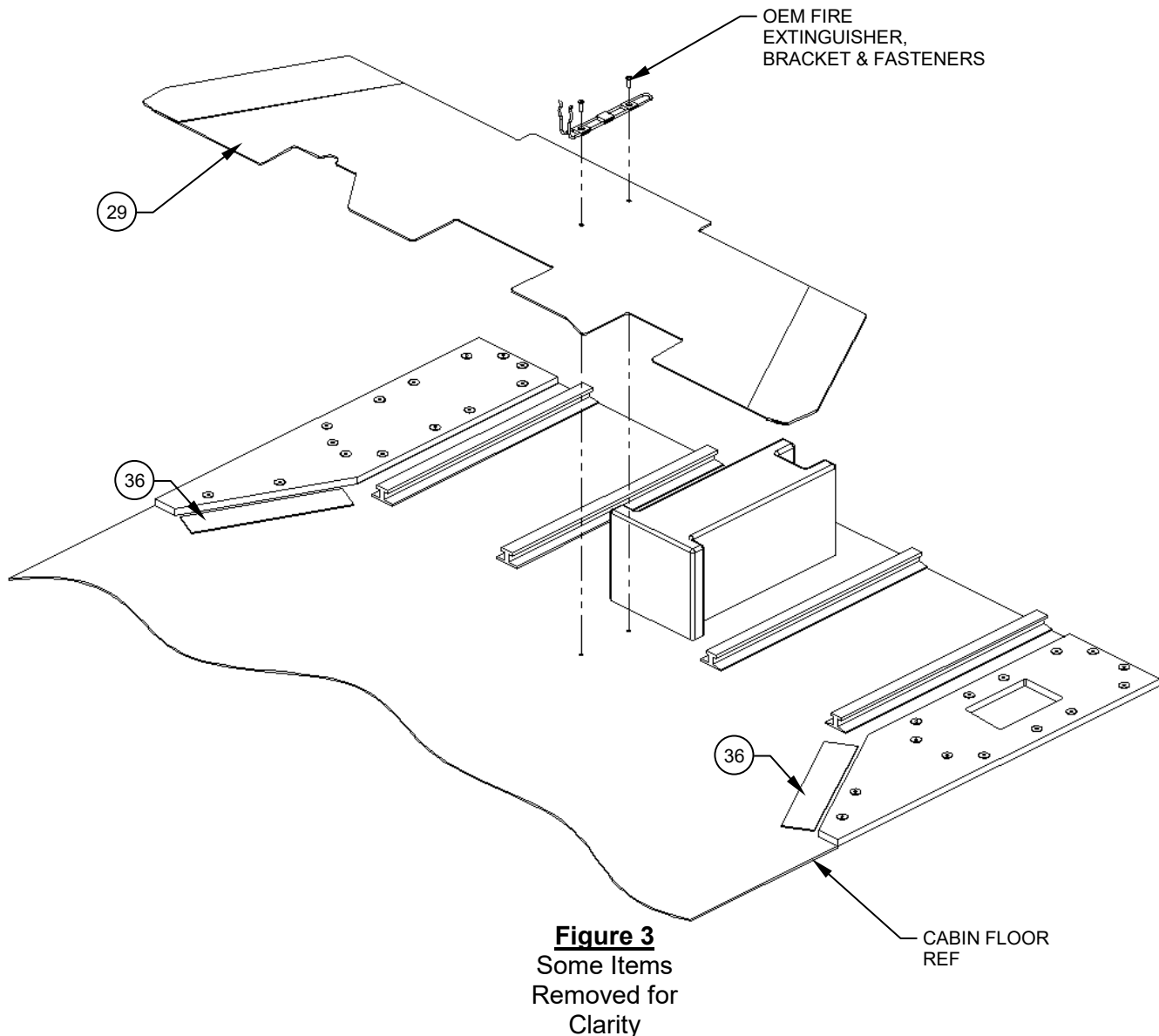
Figure 2
Some Items
Removed for
Clarity

8. Update the aircraft logbook for the removal of the affected components of the AFT Cabin Floor Protection, Kit.

Removal Instructions (cont.)

FWD Floor Protection Panel, Kit, AAL-312-060-002

1. Gain access to the aircraft and make ready for maintenance. Temporarily remove all crew seats. Reference Figure 3.



2. Temporarily remove the fire extinguisher & extinguisher bracket, and associated fasteners. Remove the FWD Cabin Floor Protection, Assy, (Item 29). Reference Figure 4.

3. Re-install the fire extinguisher & extinguisher bracket, using the OEM fasteners. Reference Figure 3.
4. Update the aircraft logbook for the removal of the affected components of the FWD Floor Protection Panel, Kit.

6.2 REPLACEMENT INSTRUCTIONS

1. As there are no special considerations, the replacement of the Cabin Floor Protection, Kit can be considered the opposite of the removal.

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

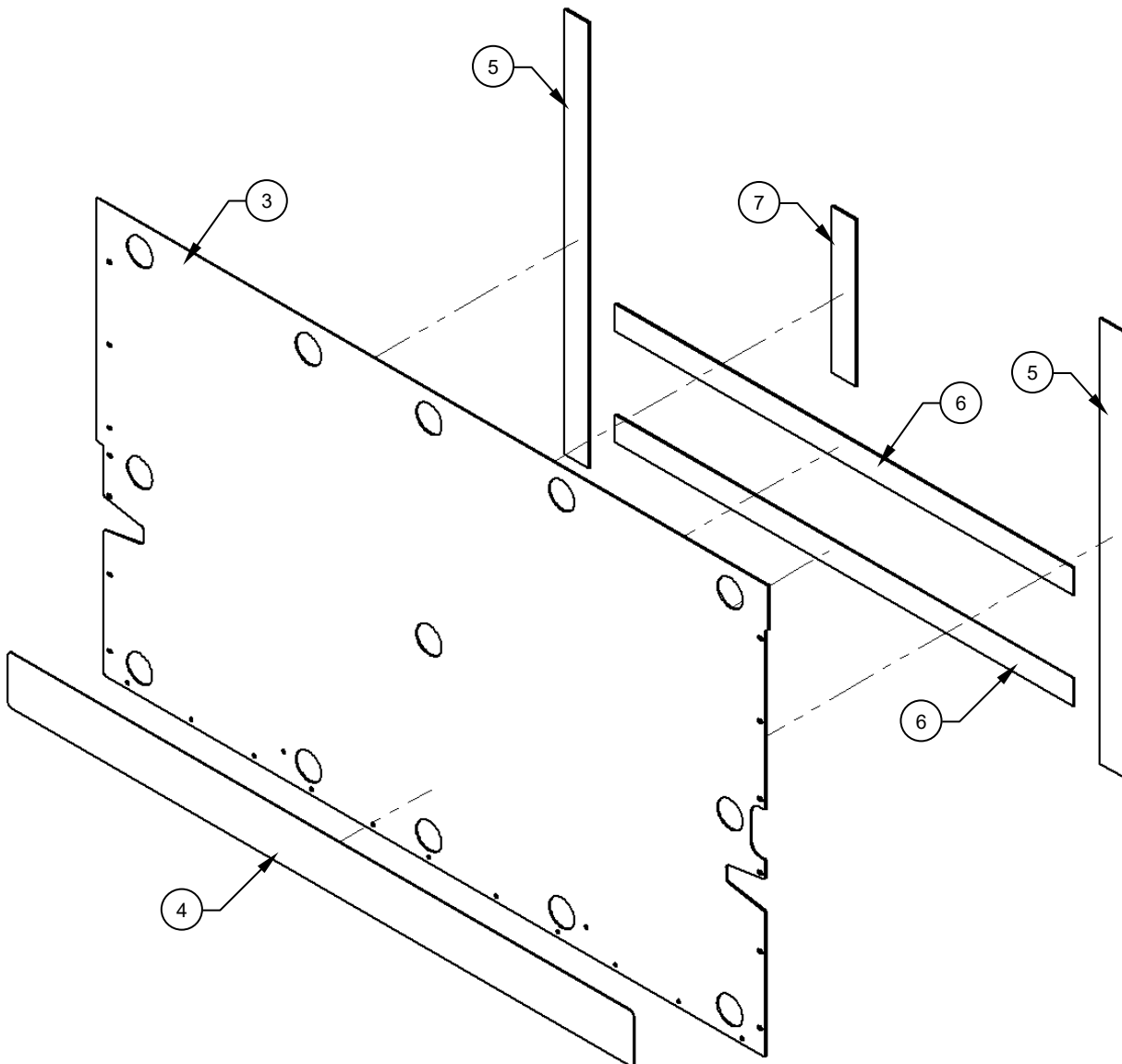
1. Refer to the Maintenance Planning Information, Chapter 4, for general information on airworthiness limitations and airworthiness limitation schedules.
2. Item(s) **not** listed in the Scheduled Airworthiness Limitations section within this document have an unlimited airworthiness life.

Scheduled Airworthiness Limitations

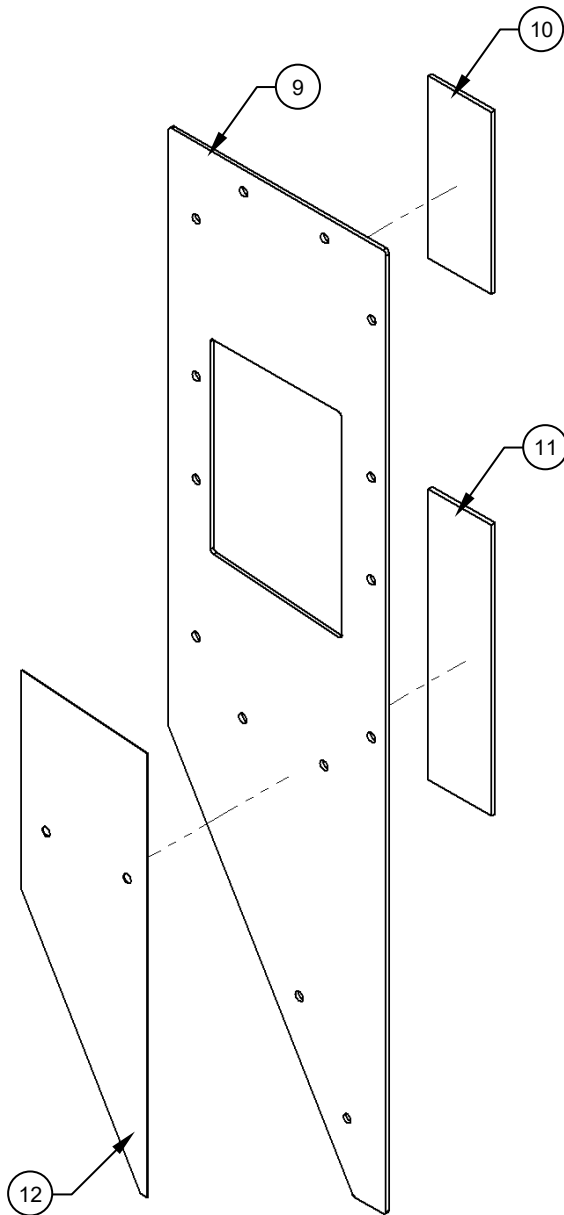
1. There are **no** airworthiness limitations associated with the item(s) referenced within this document.

SECTION 9: ILLUSTRATED PARTS BREAKDOWN

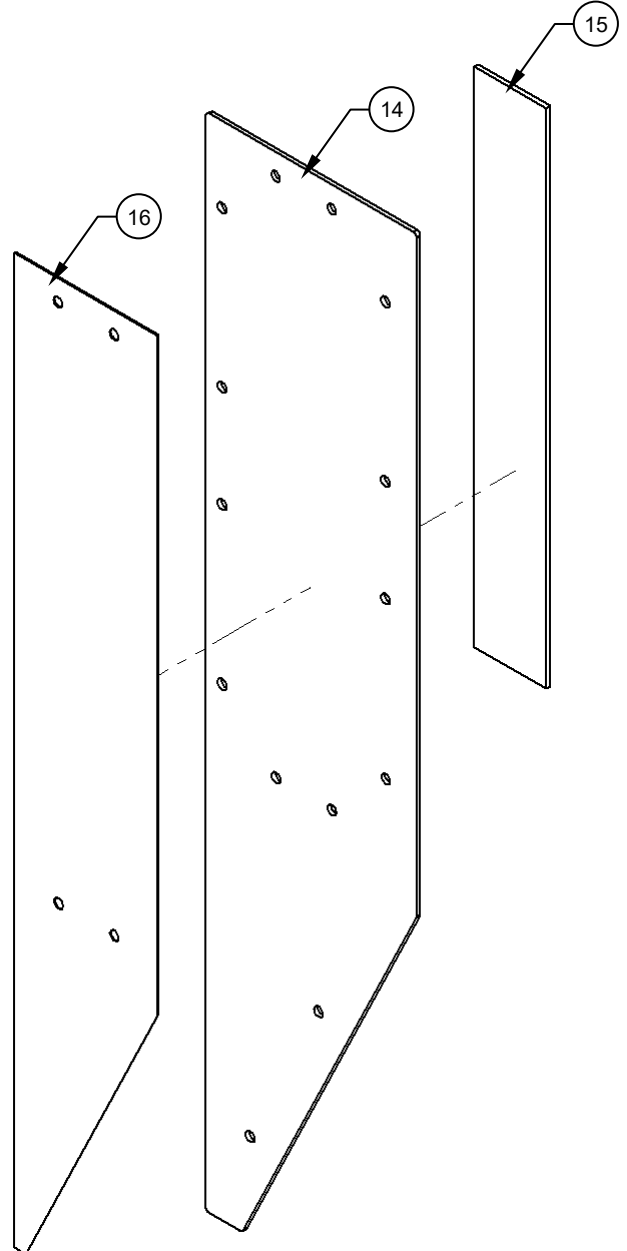
General Notes



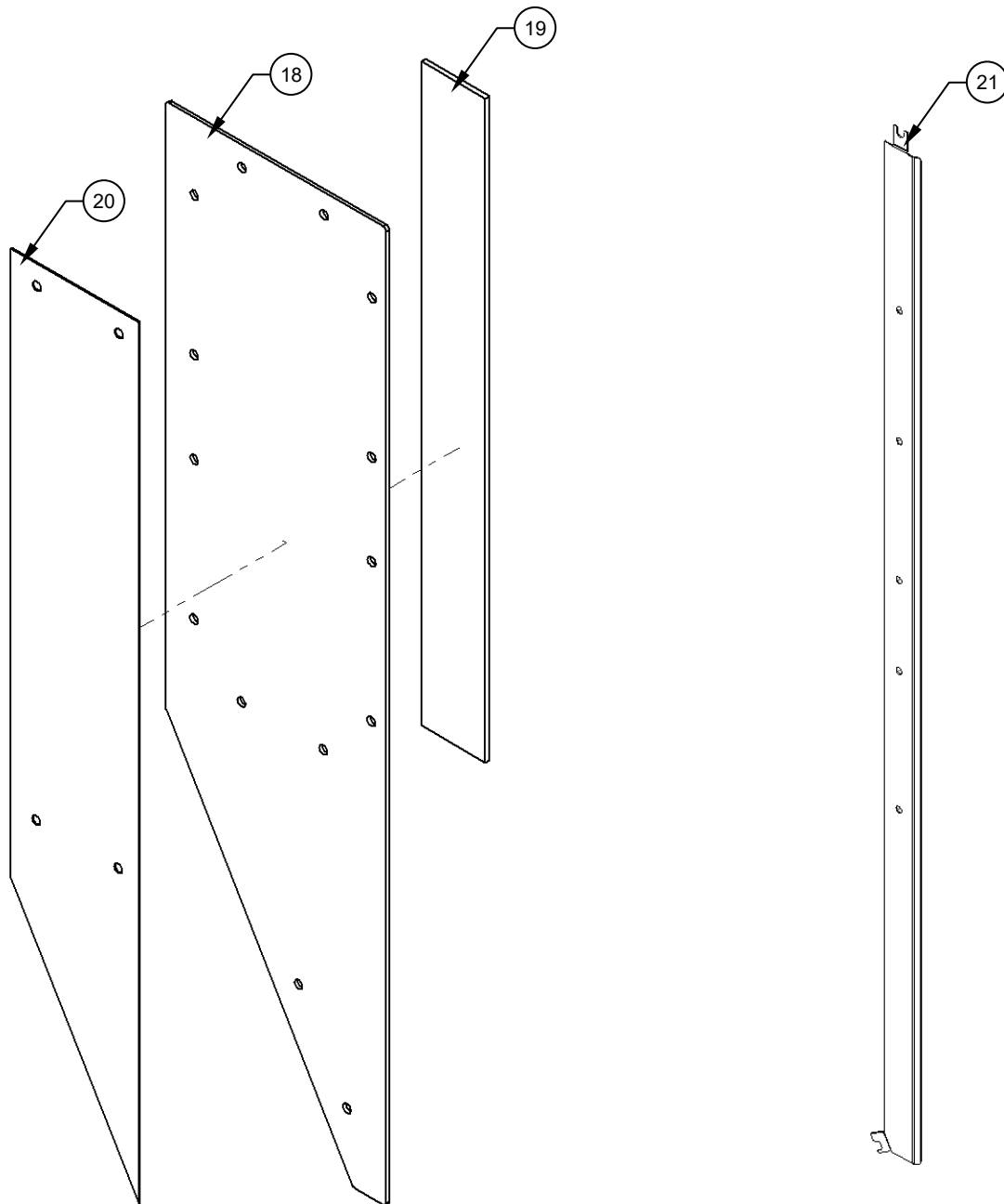
**AAL-312-061-001 (ITEM 2)
SHOWN**



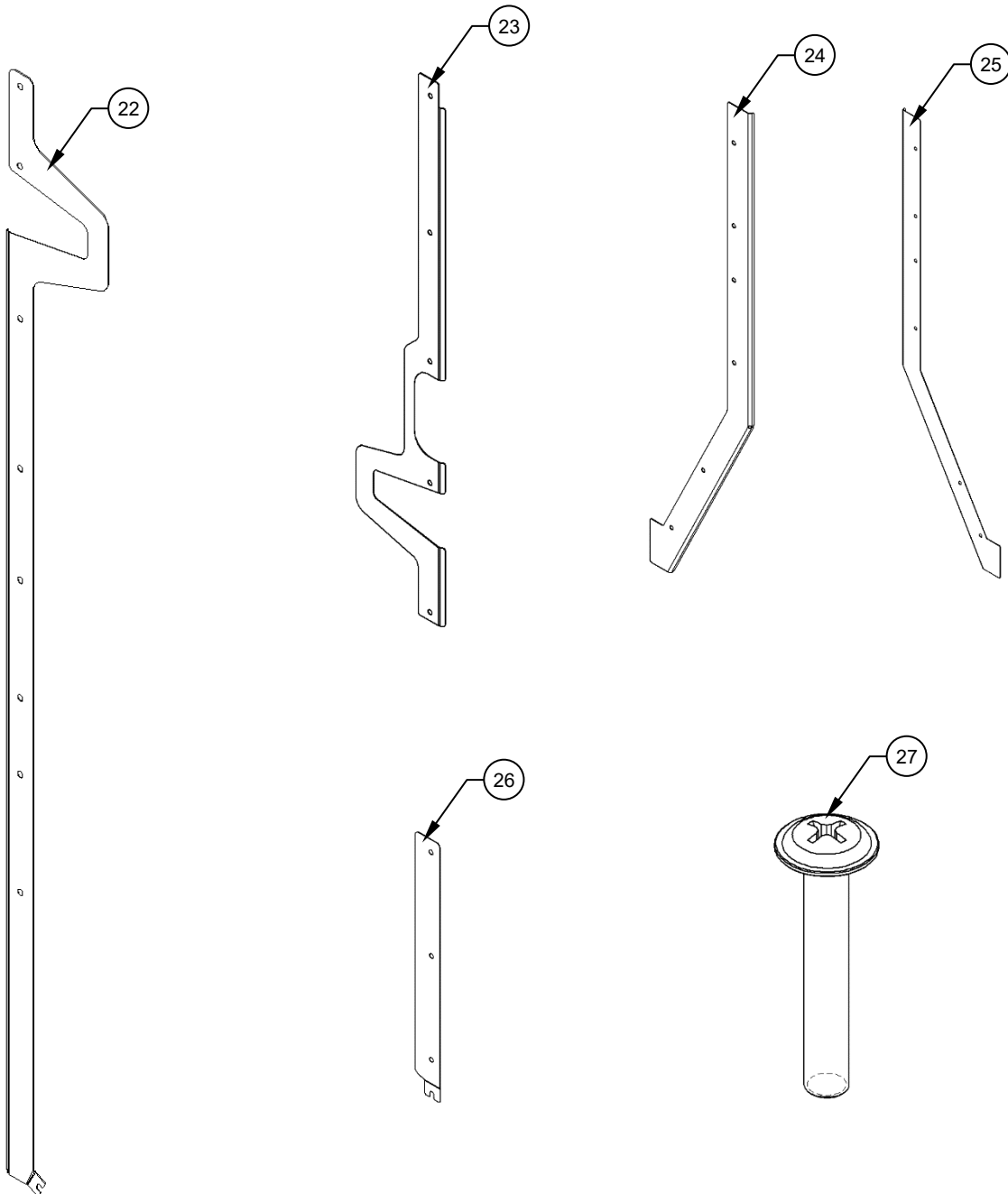
**AAL-312-061-003 (ITEM 8)
SHOWN**

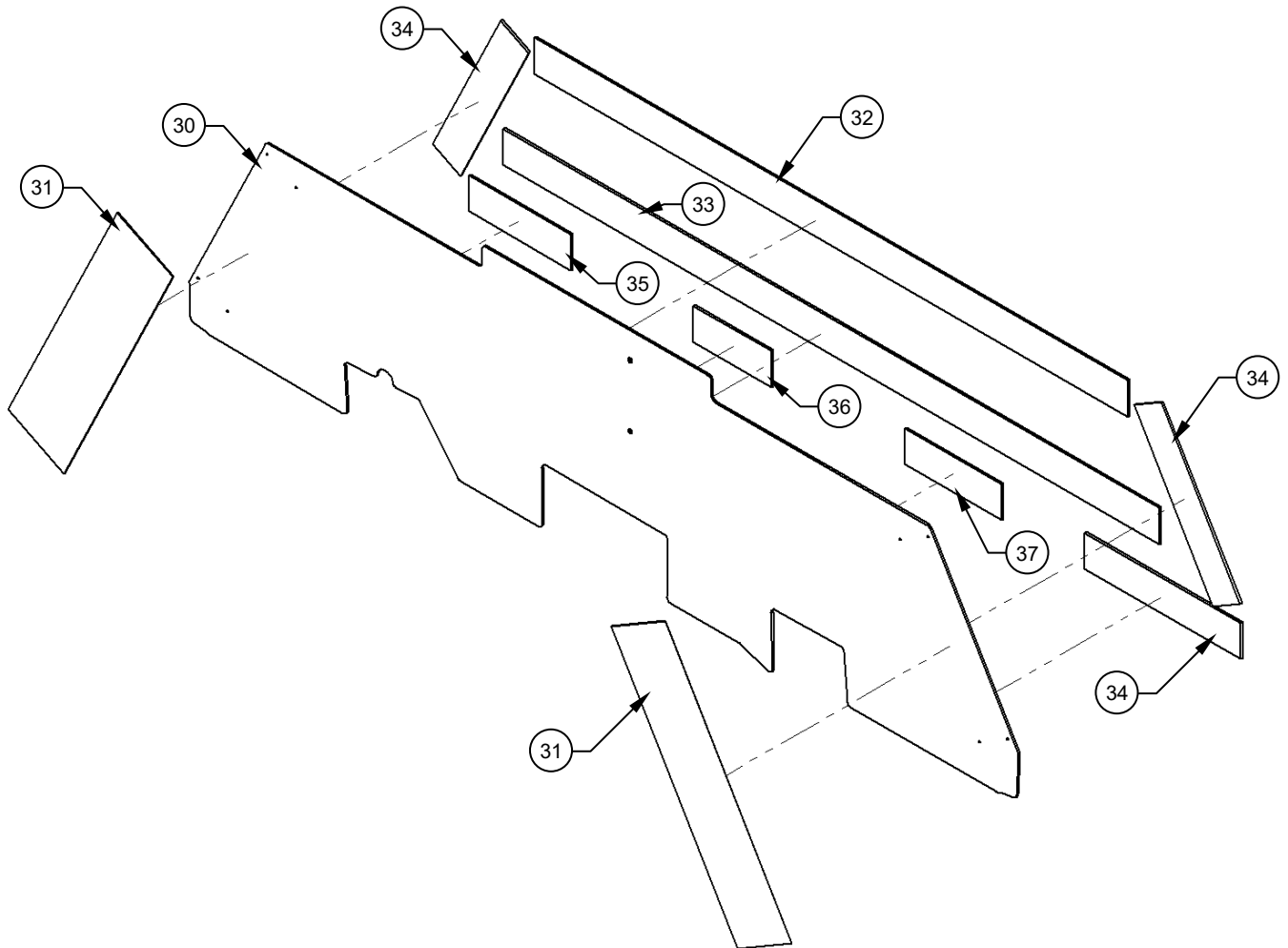


**AAL-312-061-004 (ITEM 13)
SHOWN**

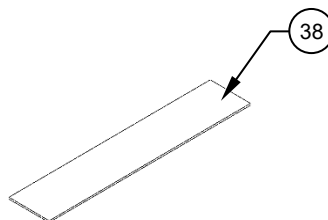


**AAL-312-061-004 (ITEM 17)
SHOWN**





**AAL-312-061-002 (ITEM 29)
SHOWN**



Illustrated Parts Breakdown (cont.)

ITEM	QTY	NUMBER	DESCRIPTION	MATERIAL	REF STOCK	SPEC	FINISH	MANUFACTURER	NCAGEC
-	-	AAL-312-060-901	CABIN FLOOR PROTECTION, KIT	C/O SHADED ITEMS				ALPINE AEROTECH LP	L0171
1	1	AAL-312-060-001	AFT CABIN FLOOR PROTECTION, KIT	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
2	1	>AAL-312-061-001	AFT CABIN FLOOR PROTECTION, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
3	1	>>AAL-312-062-001	AFT CABIN FLOOR PROTECTOR, DETAIL	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
4	1	>>3M SAFETY-WALK SLIP-RESISTANT GENERAL PURPOSE TAPES AND TREADS 620, CLEAR 4in - 70070975621	SAFETY-WALK GENERAL PURPOSE GRIP TAPE	POLY-URETHANE	58.00"	NA	NFSI SCOF < 0.60	3M	NA
5	2	>>151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 x 32.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
6	2	>>151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 x 38.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
7	1	>>151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 X 12.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
8	1	>AAL-312-061-003	LHS, FWD, PANEL, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
9	1	>>AAL-312-062-003	FWD, LHS, PANEL DUAL, DETAIL	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
10	1	>>151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 x 5.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
11	1	>>151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 X 8.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153

2

12	1	>>3M SAFETY-WALK SLIP-RESISTANT GENERAL PURPOSE TAPES AND TREADS 620, CLEAR 4in - 70070975621	SAFETY-WALK GENERAL PURPOSE GRIP TAPE	POLY- URETHANE	12.00"	NA	NFSI SCOF < 0.60	3M	NA
13	1	>AAL-312-061-004	RHS, FWD, PANEL, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
14	1	>>AAL-312-062-004	FWD, RHS, PANEL, DETAIL	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
15	1	>>151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 x 14.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
16	1	>>3M SAFETY-WALK SLIP-RESISTANT GENERAL PURPOSE TAPES AND TREADS 620, CLEAR 4in - 70070975621	SAFETY-WALK GENERAL PURPOSE GRIP TAPE	POLY- URETHANE	24.00"	NA	NFSI SCOF < 0.60	3M	NA
17	1	>AAL-312-061-005	FWD, LHS, PANEL NON DUAL, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
18	1	>>AAL-312-062-011	FWD, LHS, PANEL NON DUAL, DETAIL	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
19	1	>>151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 X 18.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
20	1	>>3M SAFETY-WALK SLIP-RESISTANT GENERAL PURPOSE TAPES AND TREADS 620, CLEAR 4in - 70070975621	SAFETY-WALK GENERAL PURPOSE GRIP TAPE	POLY- URETHANE	24.00"	NA	NFSI SCOF < 0.60	3M	NA
21	1	>AAL-312-062-005	LHS FWD SILL, DETAIL	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
22	1	>AAL-312-062-006	RHS FWD SILL, DETAIL	NA	NA	NA	NA	ALPINEAEROTECH LP	L0171
23	1	>AAL-312-062-007	LHS AFT SILL, DETAIL	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
24	1	>AAL-312-062-008	RHS INBD SILL, DETAIL	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
25	1	>AAL-312-062-009	LHS INBD SILL, DETAIL	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
26	1	>AAL-312-062-010	RHS AFT SILL, DETAIL	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171

27	100	>AN525-10R20	SCREW, WASHER HEAD	SEE SPEC	SEE SPEC	NASM525	SEE SPEC	SOURCE AS REQUIRED	NA
28	1	AAL-312-060-002	FWD FLOOR PROTECTION PANEL, KIT	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
29	1	>AAL-312-061-002	FWD CABIN FLOOR PROTECTION, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
30	1	>>AAL-312-062-002	FWD CABIN FLOOR, DETAIL	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
31	2	>>3M SAFETY-WALK SLIP-RESISTANT GENERAL PURPOSE TAPES AND TREADS 620, CLEAR 4in - 70070975621	SAFETY-WALK GENERAL PURPOSE GRIP TAPE	POLY-URETHANE	24.00"	NA	NFSI SCOF < 0.60	3M	NA
32	1	>>151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 x 38.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
33	1	>>151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 X 42.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
34	3	>>151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 x 10.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
35	1	>>151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 X 6.50	SEE MFR	SEE MFR	VELCRO USA INC.	11153
36	1	>>151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 x 5.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153
37	1	>>151394	VELCRO, DETAIL	LOOP 1000, BLACK, 8224 PSA	2 X 6.20	SEE MFR	SEE MFR	VELCRO USA INC.	11153
38	2	151405	VELCRO, DETAIL	HOOK 88, BLACK 8289 PSA	2 X 10.00	SEE MFR	SEE MFR	VELCRO USA INC.	11153