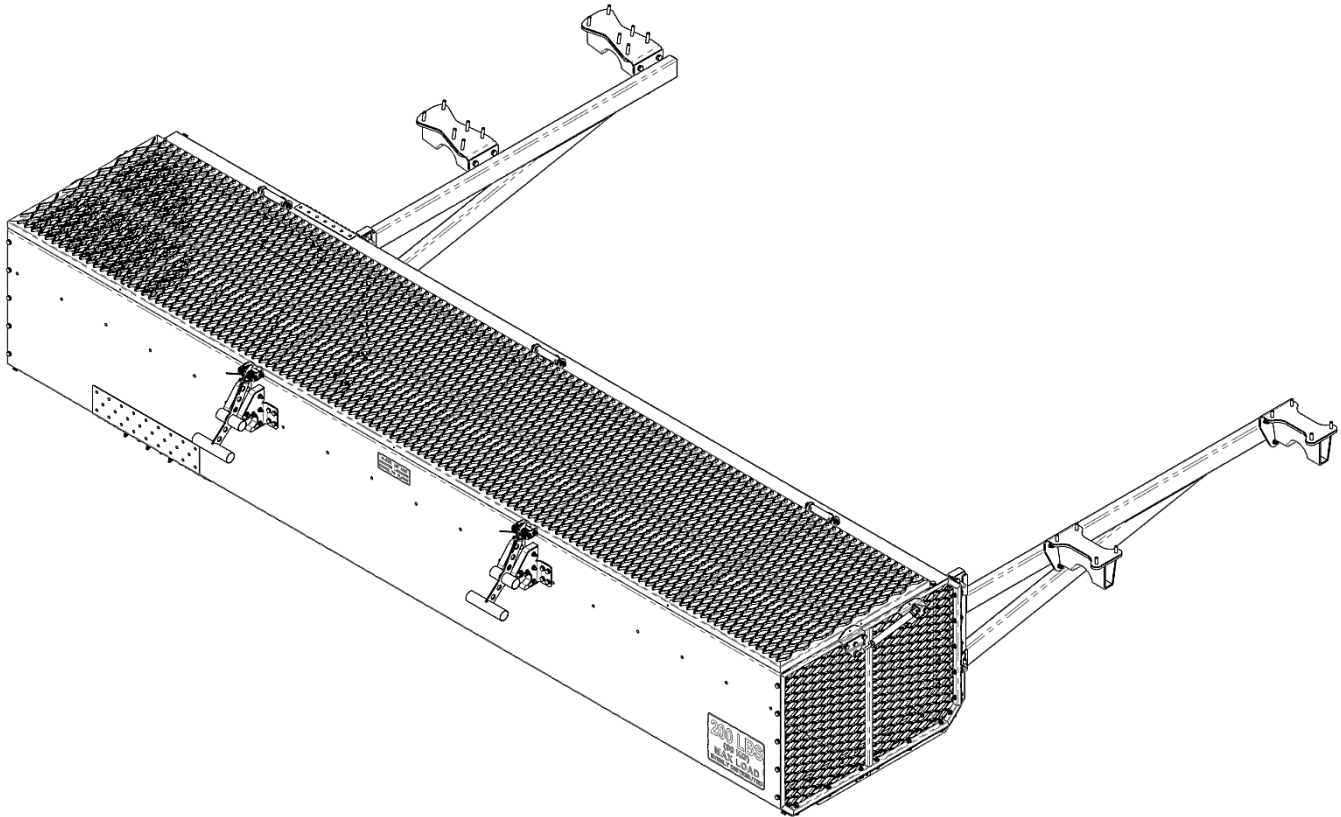




BELL 407 UTILITY BASKET, KIT INSTRUCTIONS FOR CONTINUING AIRWORTHINESS

MODEL: 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 **Introduction**

This document comprises Instructions for Continuing Airworthiness that apply to the AAL 407 Utility Basket, Kit installed on BELL 407 rotorcraft. The information and data contained in this document are supplemental to the information contained in the existing ICA for the BELL 407.

SECTION 2 **Description**

The following information provides a functional description of the BELL 407 Utility Basket, Kit as defined in Alpine Aerotech LP authority dataset AAL-390-040-001.

In the event that an operator has requirements to carry cargo and does not want to use internal stowage space, the BELL 407 Utility Basket, Kit gives an external cargo option. The kit is capable of carrying a maximum load of 200lbs, evenly distributed within the basket volume of approximately 525 liters. The utility basket includes two locking latches in the lid to keep cargo safely contained inside and is also equipped with a quick disconnect system that allows the basket to be removed or installed quickly to reconfigure the aircraft for different operational requirements.

SECTION 3 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 revision of the BELL 407 Maintenance Manual for the chapter(s) and section(s) referenced within this document.
3. Refer to the Section 5: Removal & Replacement Instructions and Section 6: 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 in Section 4: Airworthiness Limitations.

Inspection Procedures

Supplement to applicable BHT 407 Maintenance Manual

Notes

1. Refer to the current revision of the BHT 407 Maintenance Manual for the chapter(s) and section(s) referenced within this document.
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/Pilot Pre-flight Check every day, prior to flight operation. If damage is detected, perform the 600 Hour/12 Month Inspections.
5. 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. The approved inspection interval tolerance for the 600 Hour/12 Month Inspection is a maximum of 10%.

Scheduled Inspections

1. Daily Inspections/Pilot Pre-flight Check

Data Reference: Section 5: Removal & Replacement Instructions
Section 6: Illustrated Parts Breakdown

- i. Perform a General Inspection on all items in the BELL 407 Utility Basket, Kit for general condition.
- ii. Perform a General Inspection on all items in the BELL 407 Utility Basket, Kit for proper security.
- iii. Perform a General Inspection on all items in the BELL 407 Utility Basket, Kit, for proper function.

2. 600 Hour/12 Month Inspections

Data Reference: Section 5: Removal & Replacement Instructions
Section 6: Illustrated Parts Breakdown

- i. Perform a Detailed Inspection on all items, materials, and finishes in the BELL 407 Utility Basket, Kit for evidence of corrosion, cracks, and damage.
- ii. Perform a Detailed Inspection on all items in the BELL 407 Utility Basket, Kit for evidence of excessive wear.
- iii. Perform a Detailed Inspection on all items, materials, and finishes in the BELL 407 Utility Basket, Kit for proper integrity and condition.
- iv. Perform a Detailed Inspection on all hardware and fasteners in the BELL 407 Utility Basket, Kit for proper condition, security, and torque.
- v. Perform a pull test on the latch strikers. The acceptable load range is 5.50 to 6.50 lbs. If the measured load is below this range, replace the lead bumpers and adjust the striker height. If the load remains out of range after adjustment, the strikers are considered worn and must be replaced.

Repair Procedures

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 4 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 BHT 407 Maintenance Manual, Chapter 04, Airworthiness Limitations**Notes**

1. Refer to the applicable BELL 407 Maintenance Manual, 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 5 **Removal & Replacement Instructions**

Applicability

The BELL 407 Utility Basket, Kit (AAL-390-040-001) is applicable to all BELL 407 serial numbers with high skid gear installed.

Weight & Balance

<u>Part Number</u>	<u>Description</u>	<u>Weight</u>	<u>Long. Arm</u>	<u>Lat. Arm</u>
AAL-390-040-001 ¹	BELL 407 Utility Basket, Kit	110.242 ¹ 50.00(Kg)	121.770 3092.95(mm)	30.727 (RBL) 780.47(mm)
AAL-390-040-001 ²	BELL 407 Utility Basket, Kit	25.443 ² 11.54(Kg)	113.605 2885.58(mm)	7.120 (RBL) 180.84(mm)

¹ Total increase in weight to aircraft.

² Total increase in weight to aircraft (with basket removed and attachment arms and brackets installed).

General Notes

1. All Installation Instructions shall be accomplished 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. Torque fasteners IAW the tension type torque limits indicated in the current revision of the FAA Advisory Circular AC 43.13-1, Table 7-1 unless otherwise specified.
3. All dimensions are in imperial measures (inches/pounds) unless otherwise specified.
4. Refer to Section 3: Maintenance Manual Supplement for instructions on maintenance for the item(s) referenced within this section.
5. Refer to Section 6: Illustrated Parts Breakdown for the part numbers of the item(s) referenced within this section.

Installation Notes

- △₁ Typical item number for all like items in this view unless otherwise specified.
- △₂ Not provided, procure locally.
- △₃ Apply Sealant, Corrosion Inhibitive, (Item 110), to the faying surface.

Removal Instructions – Basket, Assy (Pilot Removable)

1. Gain access to the aircraft and make the aircraft safe and ready for maintenance.
2. Remove 2X Clamping Toggle-Lock Clevis Pin, (Item 46), from their locations in the FWD and AFT Attachment Arm, Assys (Items 105 & 106). Reference Figure 1 & 2.

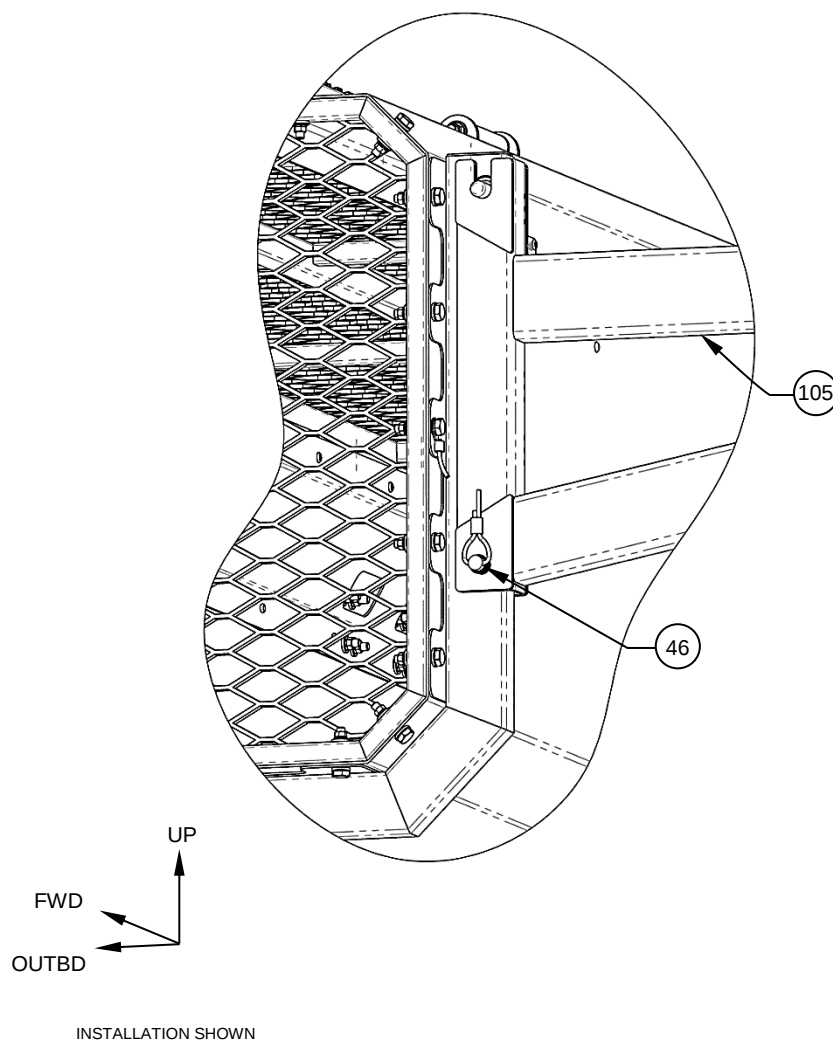


Figure 1
Clamping Toggle-Lock Clevis Pin, (Item 46), in the
FWD Attachment Arm, (Item 105).

Removal Instructions – Basket, Assy (Pilot Removable) (cont.)

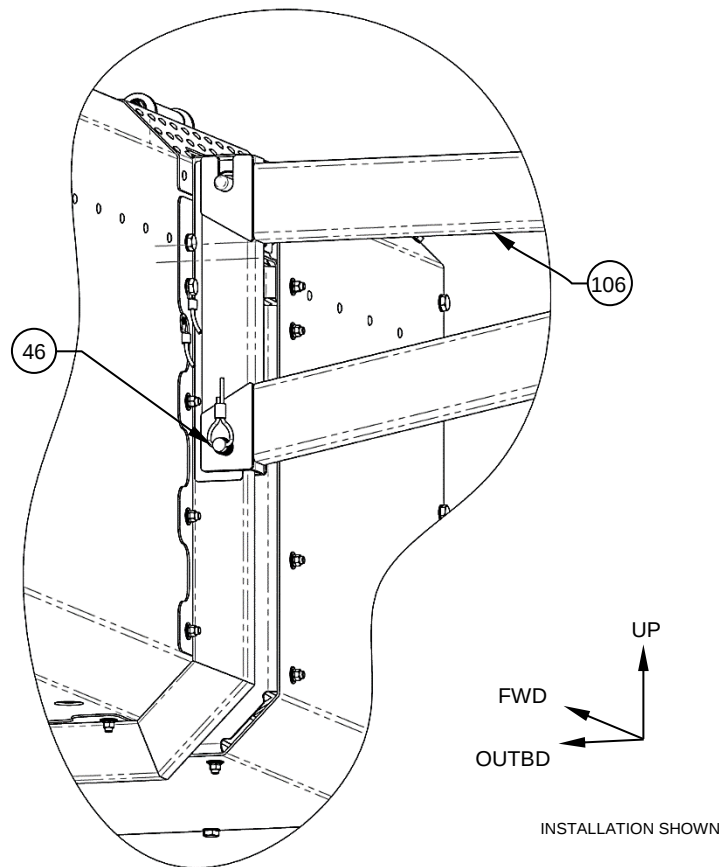


Figure 2
Clamping Toggle-Lock Clevis Pin, (Item 46), in the
AFT Attachment Arm, (Item 106).

3. Remove the Utility Basket, Assy, (Item 1) from FWD & AFT Attachment Arm, Assys, (Items 105 & 106), by slightly rotating the basket around the pins on the FWD & AFT Support, Assys, (Items 43 & 44), and then lifting it up to be completely disengaged from the aircraft. Reference Figure 3.

Removal Instructions – Basket, Assy (Pilot Removable) (cont.)

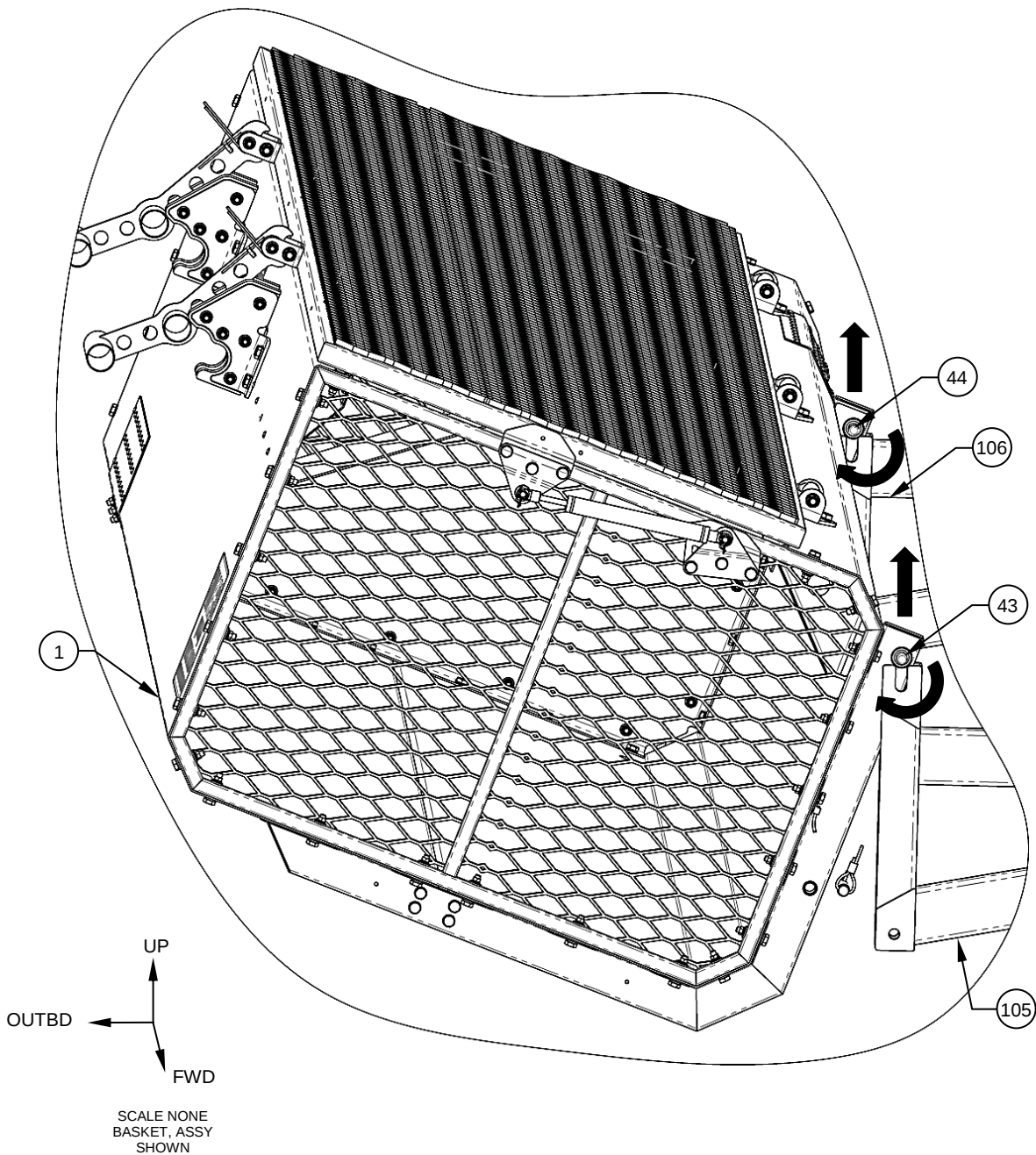


Figure 3

Utility Basket, Assy, (Item 1), removal from FWD & AFT Attachment Arm, Assys,
(Items 105 & 106).

Removal Instructions – Attachment Arms and Brackets

1. To remove the FWD Attachment Arm Assy, (Item 105), from the 2X FWD Attachment Bracket, (Item 107), remove 6x Bolt, Machine, (Item 115), 6x Nut, Self-Locking, (Item 116), and 12x Washer, Flat, (Item 114). Reference Figure 4.

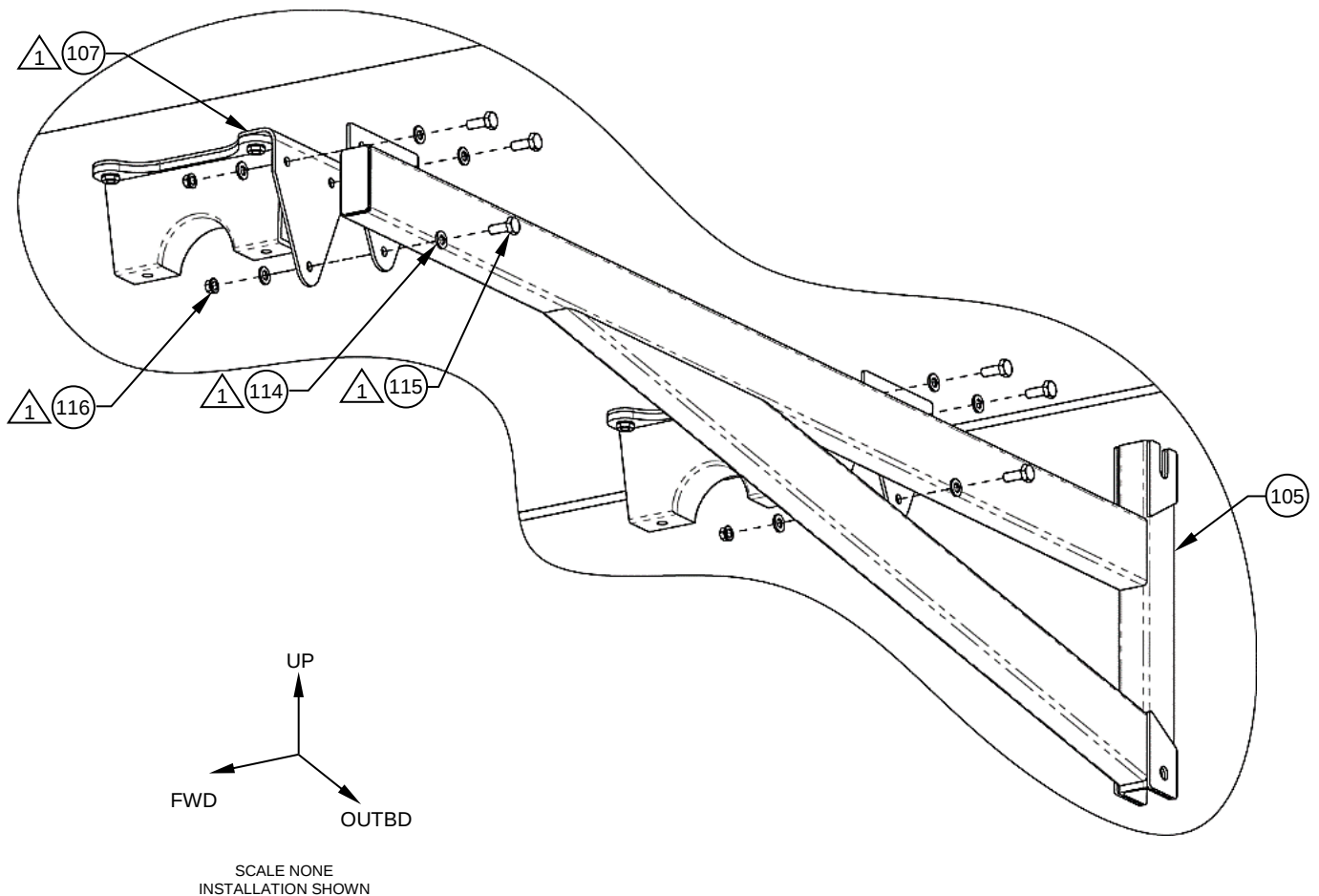


Figure 4

FWD Attachment Arm Assy, (Item 105), removal from 2X FWD Attachment Bracket, (Item 107).
Some items removed for clarity.

Removal Instructions – Attachment Arms and Brackets (cont.)

2. To remove AFT Attachment Arm Assy, (Item 106), from the 2X AFT Attachment Bracket, (Item 108), remove 6x Bolt, Machine, (Item 115), 6x Nut, Self-Locking, (Item 116), and 12x Washer, Flat, (Item 114). Reference Figure 5.

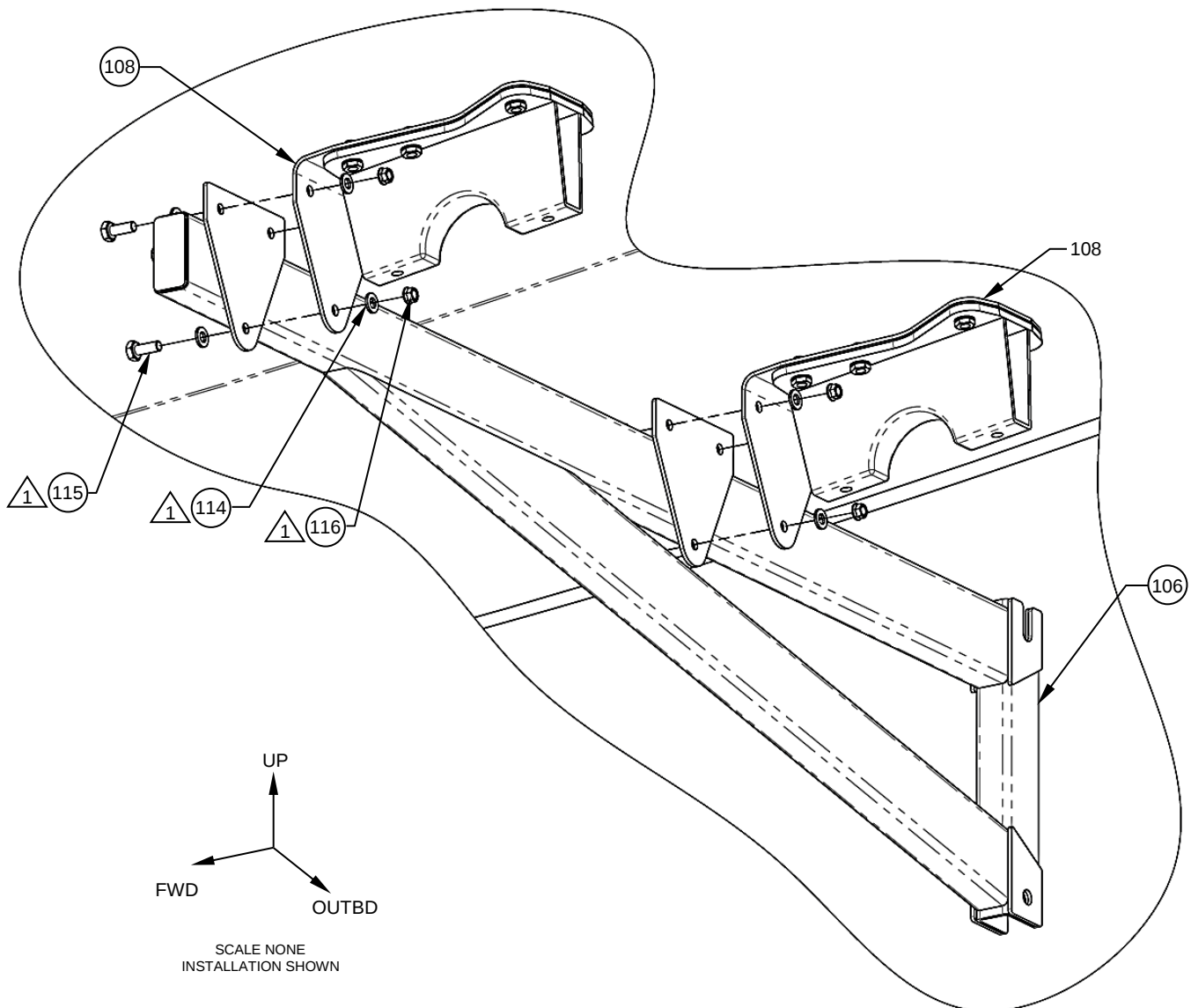


Figure 5

AFT Attachment Arm Assy, (Item 106), removal from 2X AFT Attachment Bracket, (Item 108).
Some items removed for clarity.

Removal Instructions – Attachment Arms and Brackets (cont.)

3. To remove the 2X FWD Attachment Bracket, (Item 107), remove 8x Bolt, Machine, (Item 117), and 8x Washer, (140-007-16A17B4). Reference Figure 6.

NOTE: To reinstall 2X fitting, fuselage, FWD, landing gear without the FWD Attachment Brackets, (Item 107), use the OEM 8X Bolt, Machine (NAS6604-7) and OEM 8x Washer, (140-007-16A17B4), which are not provided in the BELL 407 Utility Basket, Kit.

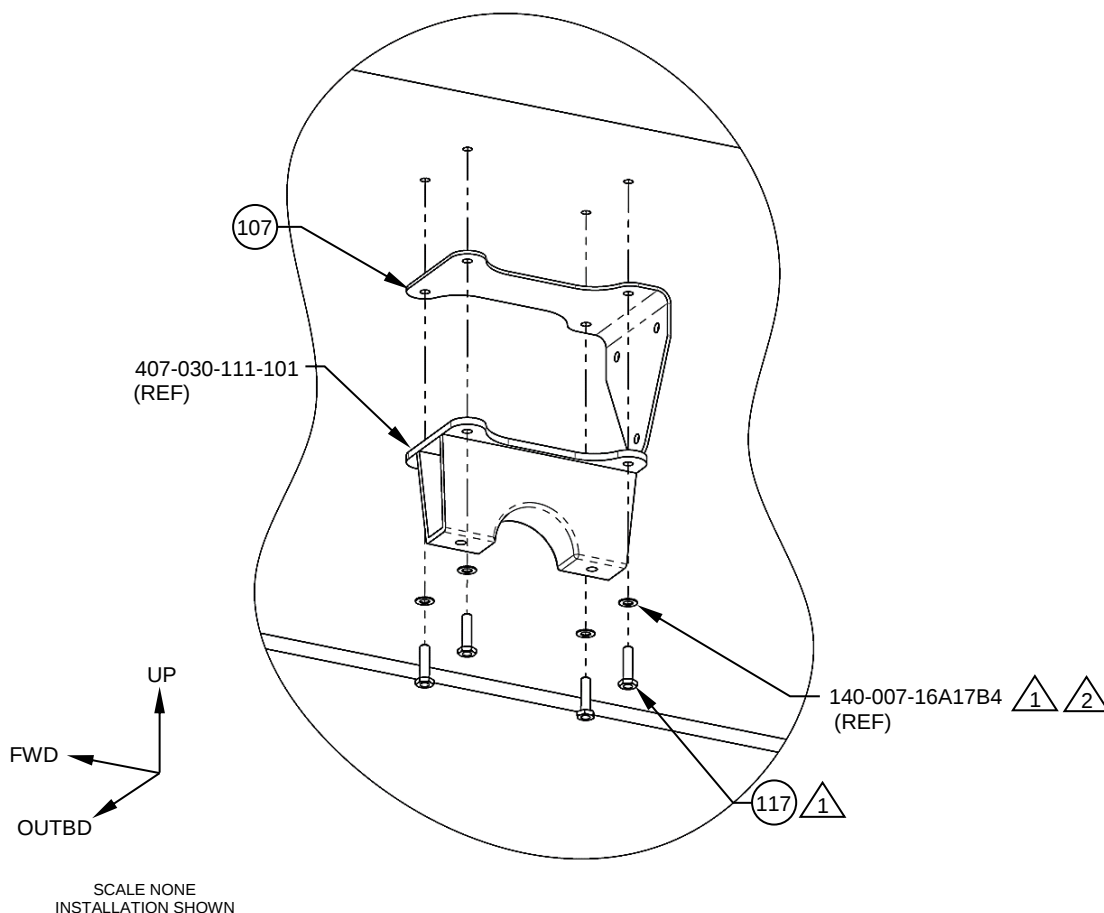


Figure 6
Removal instruction for 2X FWD Attachment Bracket, (Item 107).
Some items removed for clarity.

Removal Instructions – Attachment Arms and Brackets (cont.)

4. To remove 2X AFT Attachment Bracket, (Item 108), remove 4x Bolt, Machine, (Item 118), 8x Bolt, Machine, (Item 119), and 12x Washer, Flat, (Item 114). Reference Figure 7.

NOTE: To reinstall 2X fitting, fuselage, AFT, landing gear without the FWD Attachment Brackets, (Item 108), use the OEM 4X Bolt, Machine (NAS6604-13) and 8X Bolt, Machine (NAS6604-15), which are not provided in the BELL 407 Utility Basket, Kit.

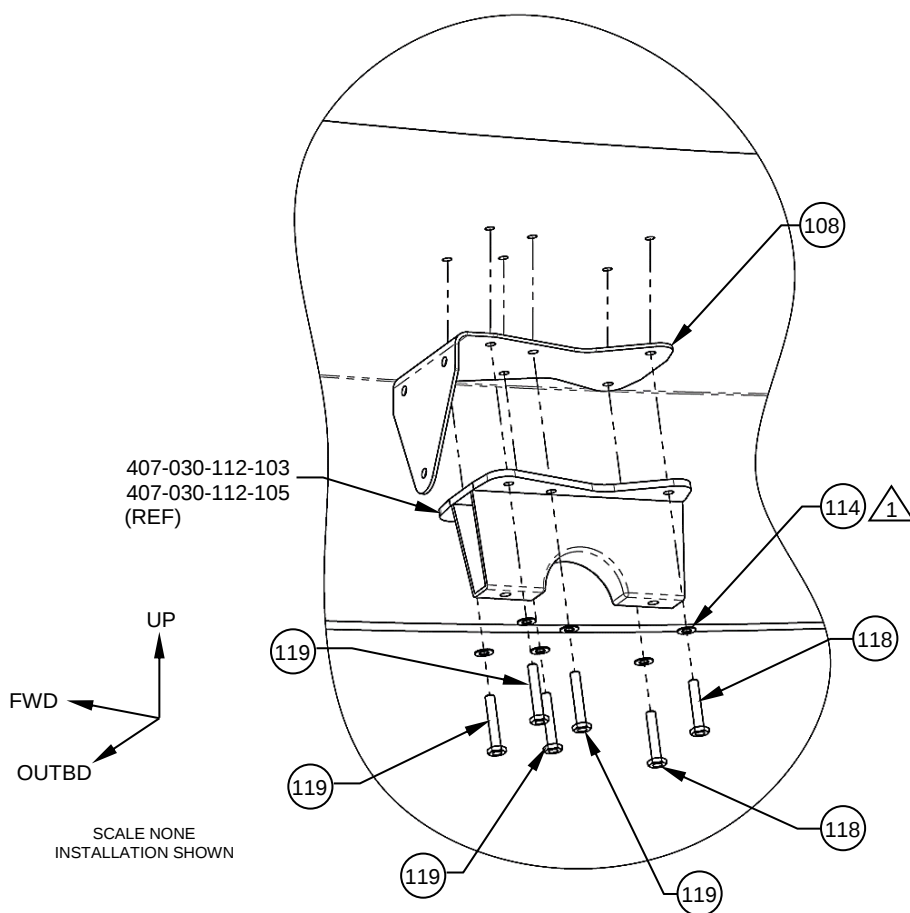


Figure 7
Removal instruction for 2X AFT Attachment Bracket, (Item 108).
Some items removed for clarity.

5. Removal complete.
6. Update the aircraft logbook for the removal of the BELL 407 Utility Basket, Kit.

Replacement Instructions

1. Gain access to the aircraft and make the aircraft safe and ready for maintenance.
2. To replace 2X FWD Mounting Bracket, (Item 107), apply Sealant, Corrosion Inhibitive, (Item 110), to faying surfaces per MIL-PRF-81733. Reference Figure 8.

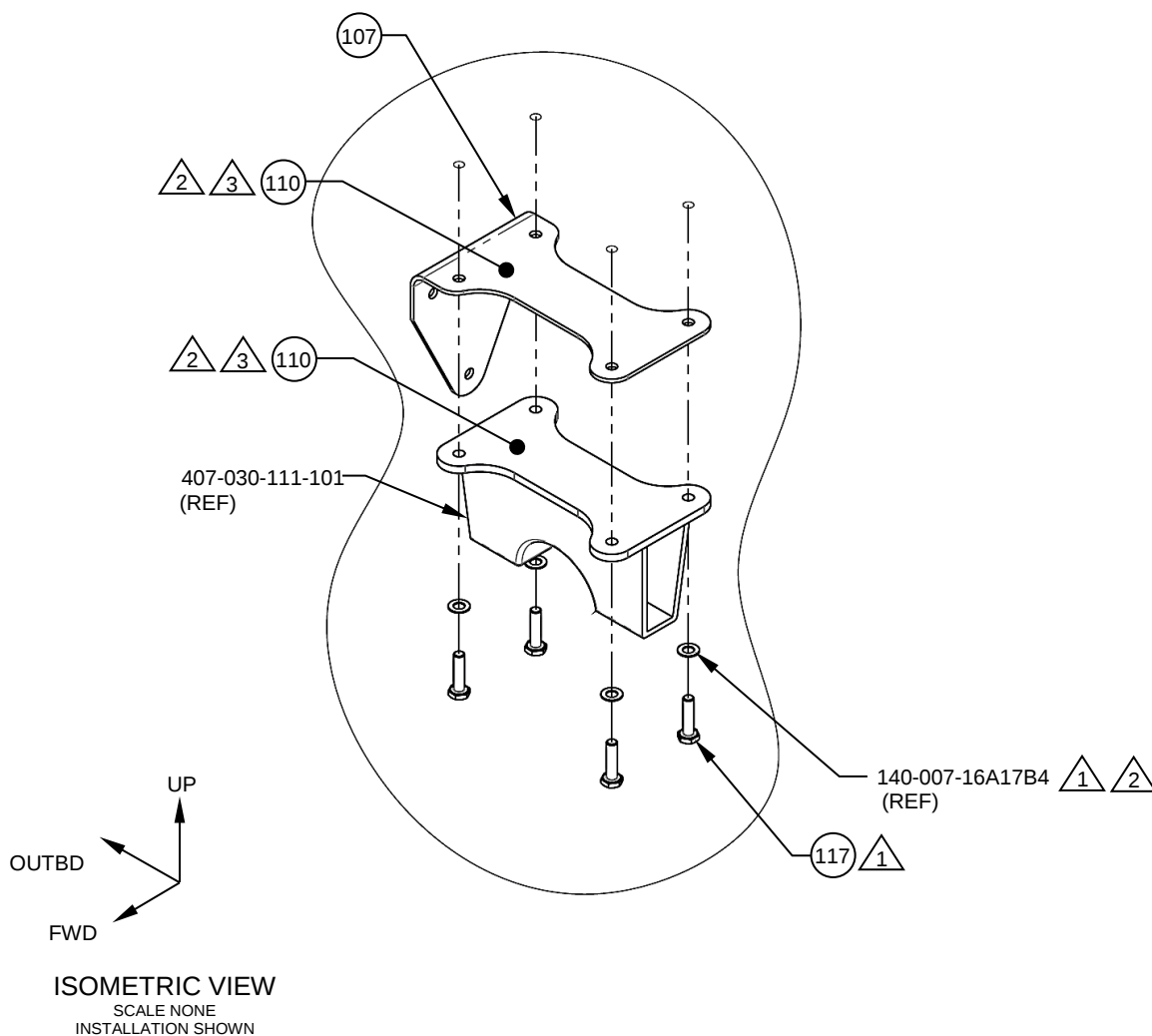


Figure 8

Apply sealant to the faying surfaces of FWD Mounting Bracket, (Item 107).
Some items removed for clarity.

Replacement Instructions (cont.)

3. To replace 2X AFT Mounting Bracket, (Item 108), apply Sealant, Corrosion Inhibitive, (Item 110), to the faying surfaces per MIL-PRF-81733. Reference Figure 9.

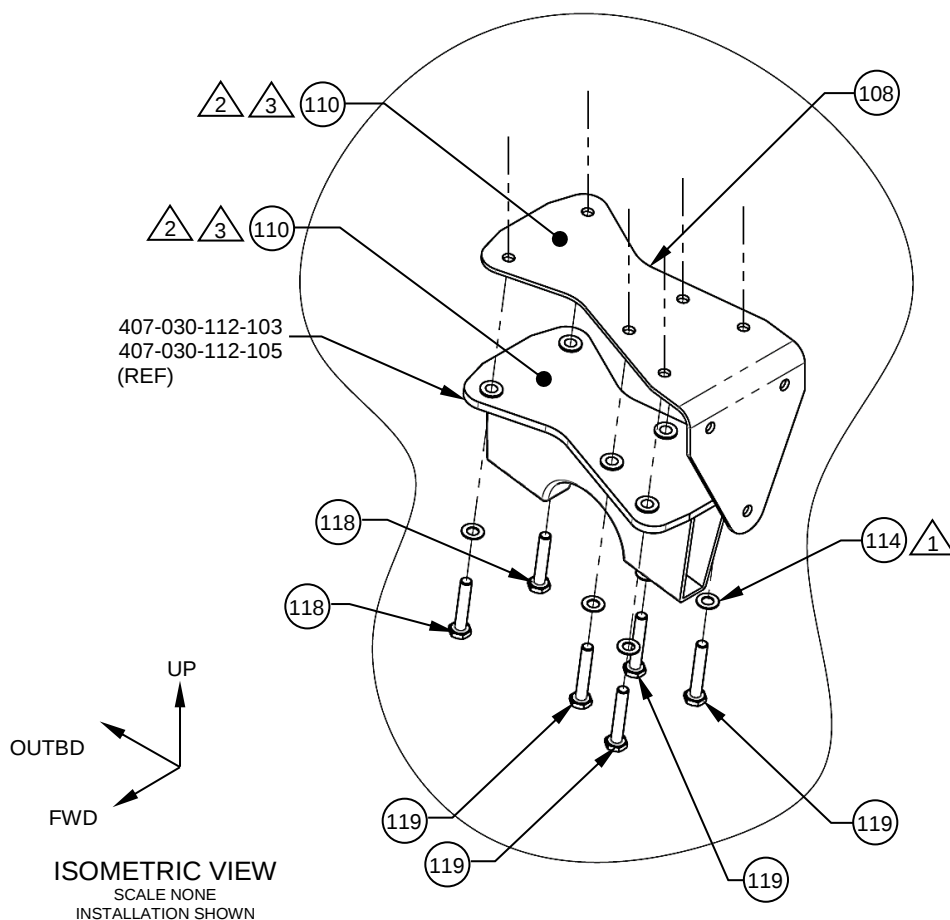


Figure 9

Apply sealant to the faying surfaces of AFT Mounting Bracket, (Item 108).
Some items removed for clarity.

4. For the rest of the BELL 407 Utility Basket, Kit replacement procedures, follow the opposite steps of the removal process.
5. Replacement complete. Perform a General Inspection of all items to ensure proper installation.
7. Update the aircraft logbook for the replacement of the BELL 407 Utility Basket, Kit.

SECTION 6 **Illustrated Parts Breakdown**

General Notes

△₁ Typical Item number for all like items in this view unless otherwise specified.

△₂ Not included, procure locally.

△₃ Approved Alternative Items:

NUMBER:	DESCRIPTION:	SPEC:
NAS77A6-040N	BUSHING, FLANGED	NAS77
NAS77A6-040P	BUSHING, FLANGED	NAS77
NAS77A6-043N	BUSHING, FLANGED	NAS77
NAS77A6-043P	BUSHING, FLANGED	NAS77
NAS77A6-049N	BUSHING, FLANGED	NAS77
NAS77A6-049P	BUSHING, FLANGED	NAS77
NAS77A6-061N	BUSHING, FLANGED	NAS77
NAS77A6-061P	BUSHING, FLANGED	NAS77

△₄ Approved Alternative Item:

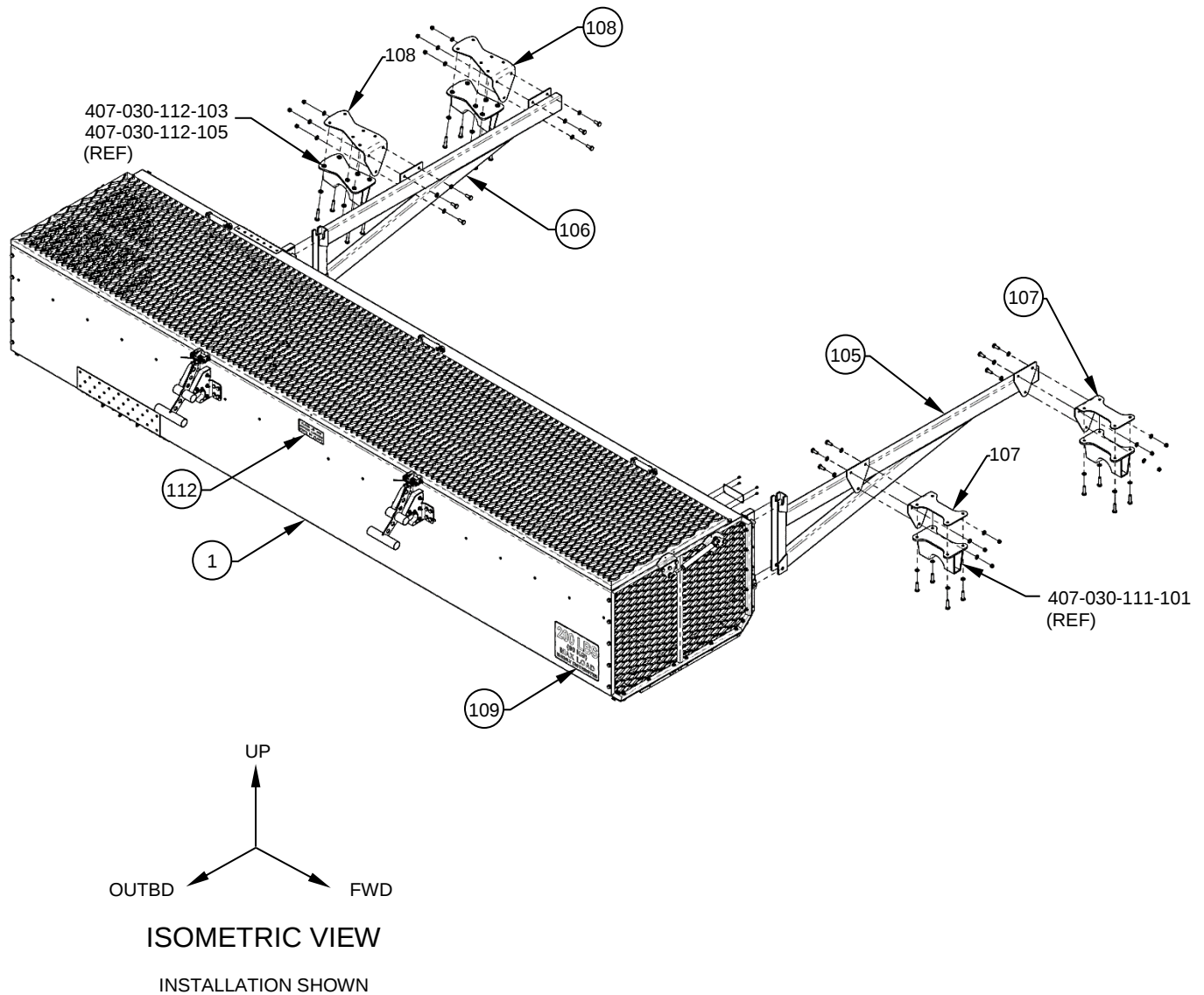
NUMBER:	NAS77A4-012P	SPEC:	NAS77
DESCRIPTION:	BUSHING, FLANGED	FINISH:	SEE SPEC
MATERIAL:	SEE SPEC	MFR:	SOURCE AS REQUIRED
REF STK SIZE:	SEE SPEC	NCAGEC:	NA

△₅ Typical Item number for all like items in between two branches.

△₆ Approved Alternative Item:

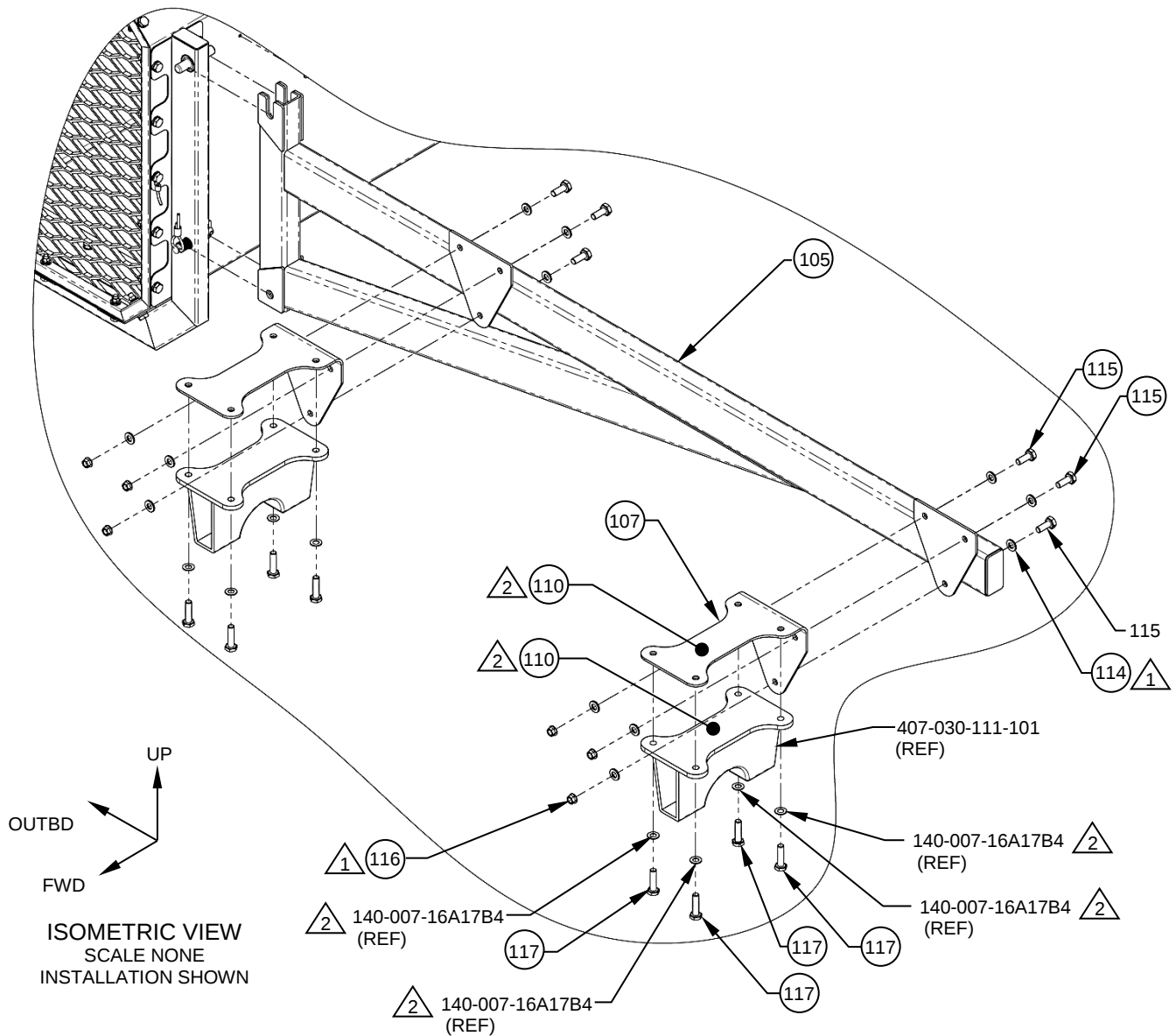
NUMBER:	LOCTITE 242	SPEC:	SEE MFR
DESCRIPTION:	THREADLOCKER, MEDIUM STRENGTH	FINISH:	SEE MFR
MATERIAL:	LOCTITE 242	MFR:	HENKEL LOCTITE CORPORATION
		NCAGEC:	79436

Illustrated Parts Breakdown (cont.)



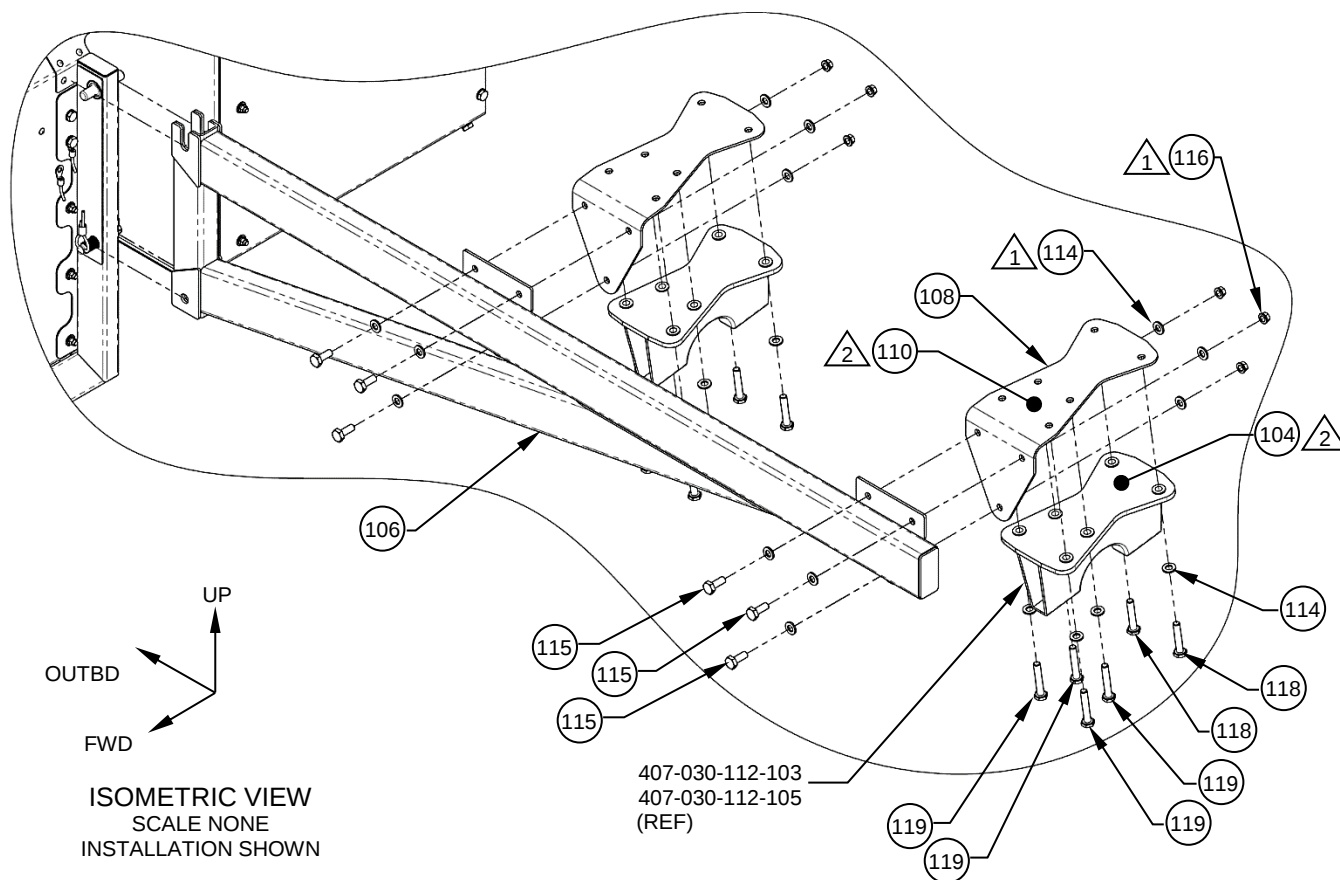
BELL 407 Utility Basket, Kit
Installation Shown

Illustrated Parts Breakdown (cont.)



BELL 407 Utility Basket, Kit
FWD Attachment Arm (Item 105) Installation Shown

Illustrated Parts Breakdown (cont.)



**BELL 407 Utility Basket, Kit
AFT Attachment Arm (Item 106) Installation Shown**

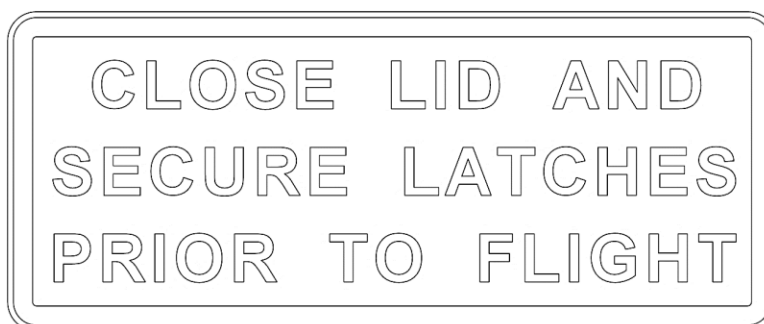


**Decal, Detail (Item 109)
Shown**

Illustrated Parts Breakdown (cont.)



Decal, Detail (Item 111)
Shown

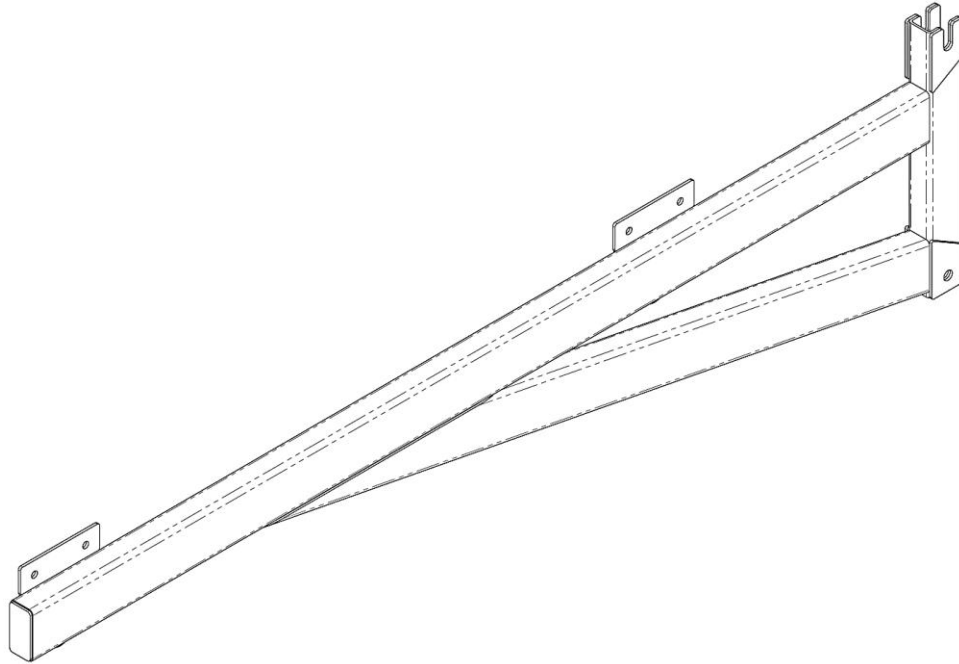


Decal, Detail (Item 112)
Shown

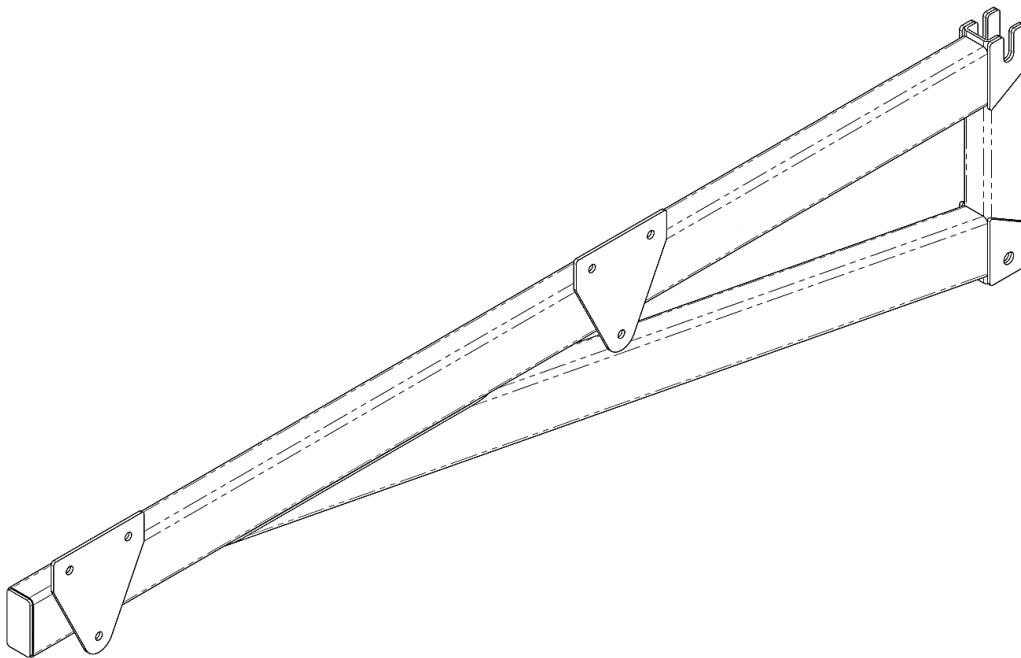


Decal, Detail (Item 113)
Shown

Illustrated Parts Breakdown (cont.)

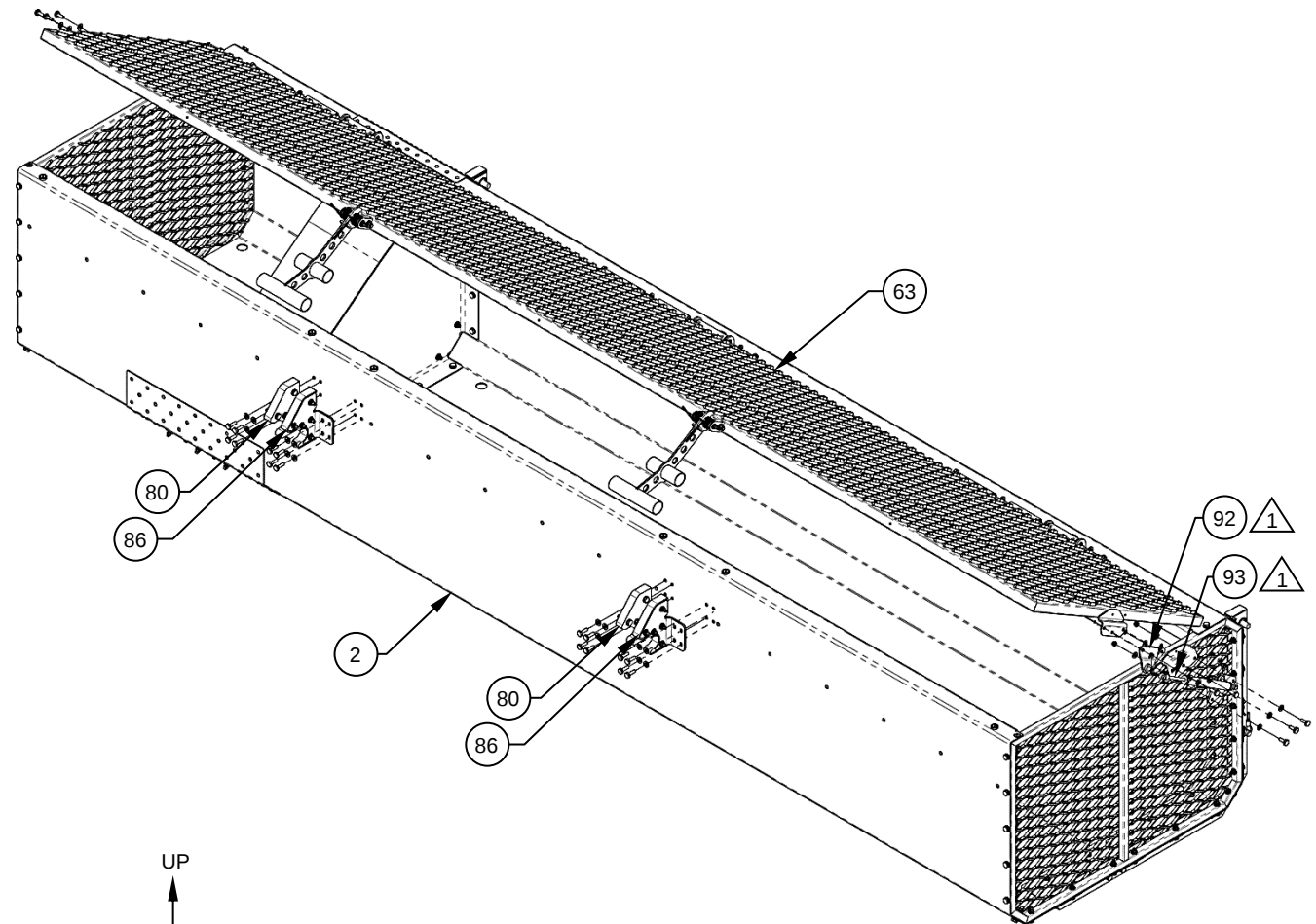


Attachment Arm, FWD, Assy (Item 105)
Shown



Attachment Arm, AFT, Assy (Item 106)
Shown

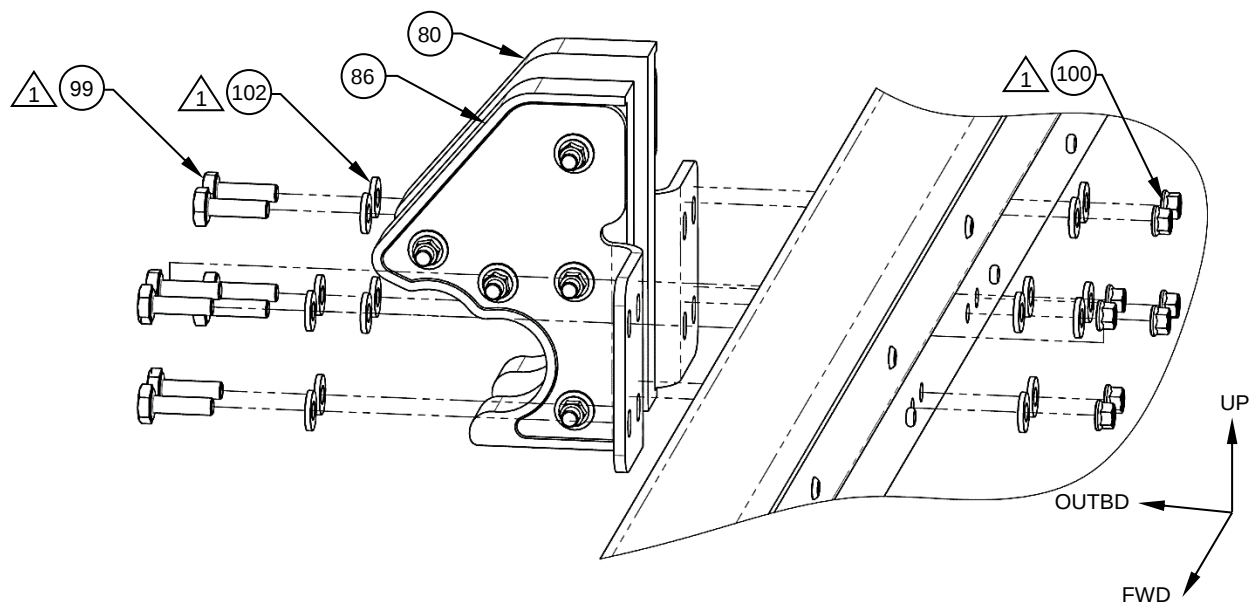
Illustrated Parts Breakdown (cont.)



UP
OUTBD FWD
ISOMETRIC VIEW
INSTALLATION SHOWN

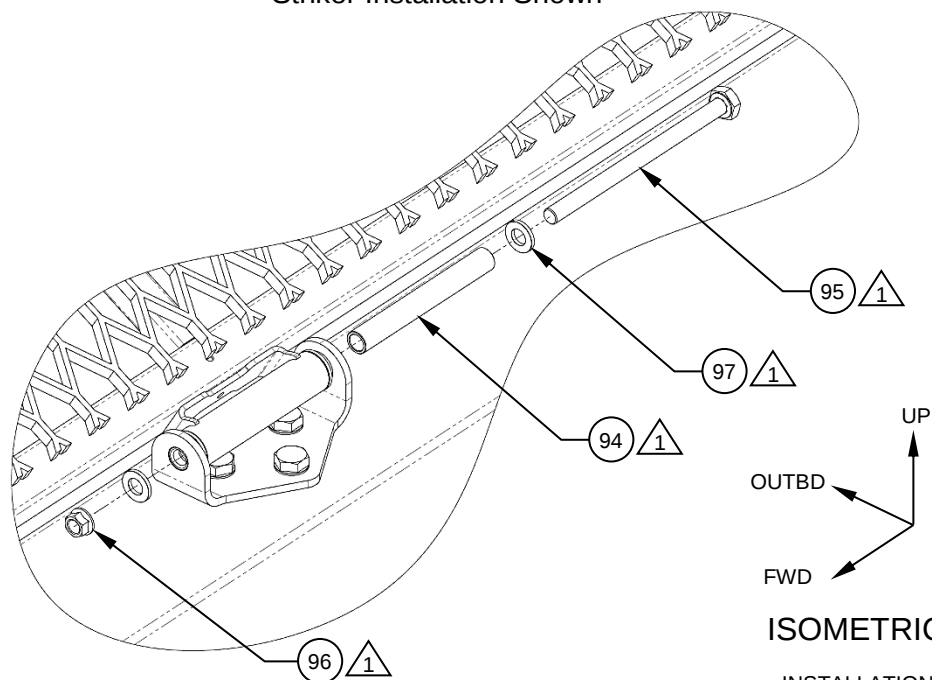
Utility Basket, Assy (Item 1)
Installation Shown

Illustrated Parts Breakdown (cont.)



INSTALLATION SHOWN

Utility Basket, Assy (Item 1)
Striker Installation Shown

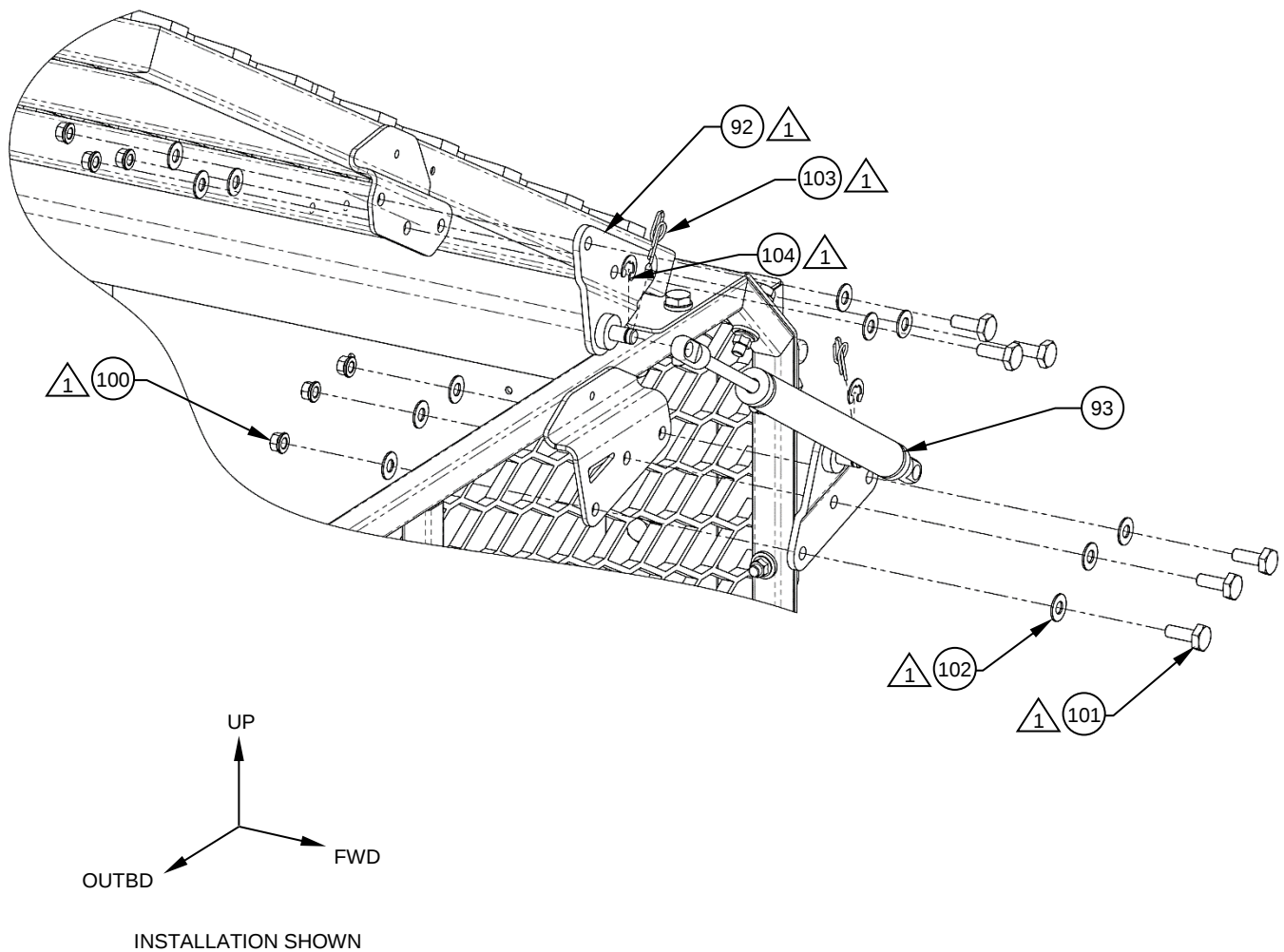


ISOMETRIC VIEW

INSTALLATION SHOWN

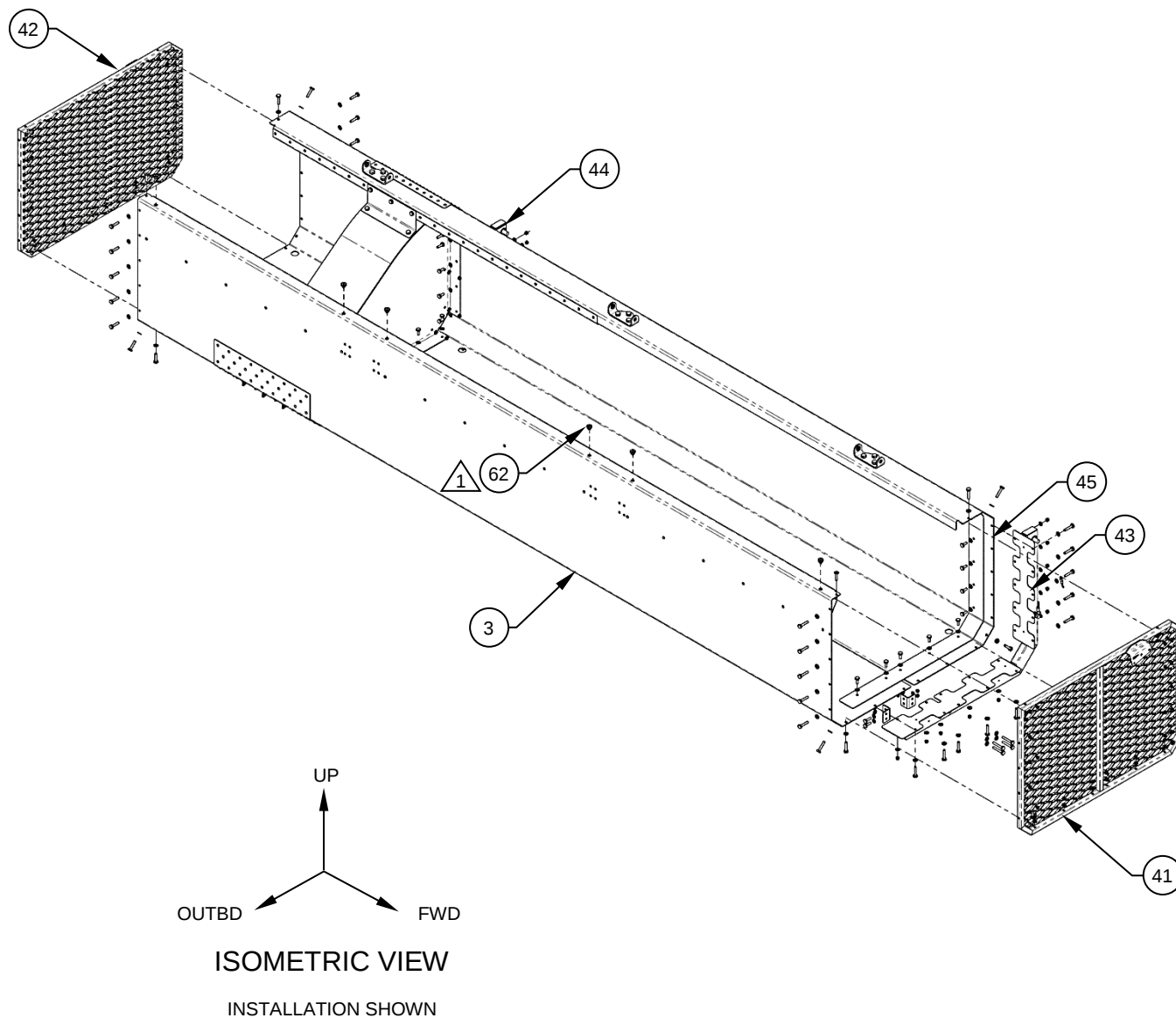
Utility Basket, Assy (Item 1)
Hinge Installation Shown

Illustrated Parts Breakdown (cont.)



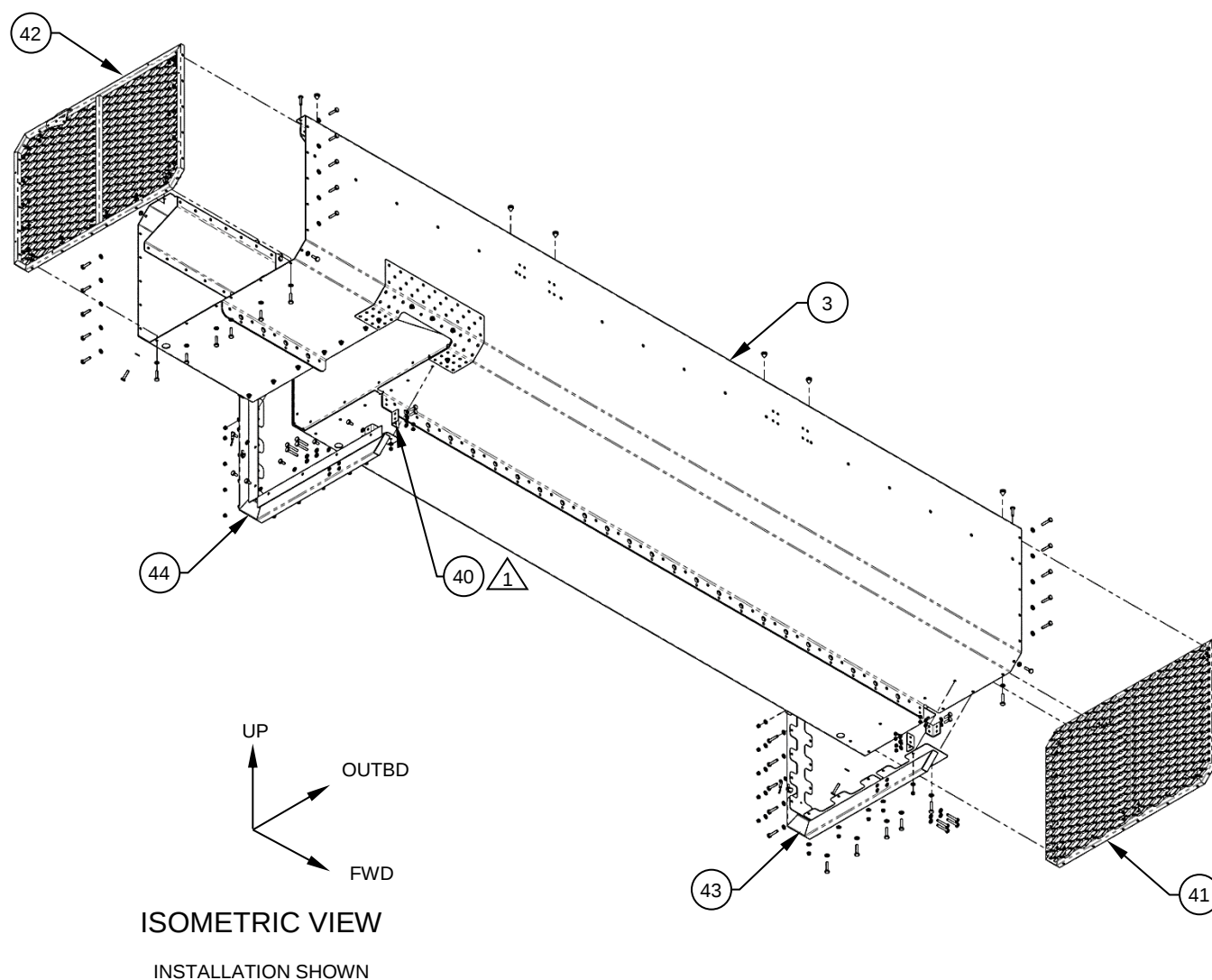
Utility Basket, Assy (Item 1)
Gas Spring Installation Shown

Illustrated Parts Breakdown (cont.)



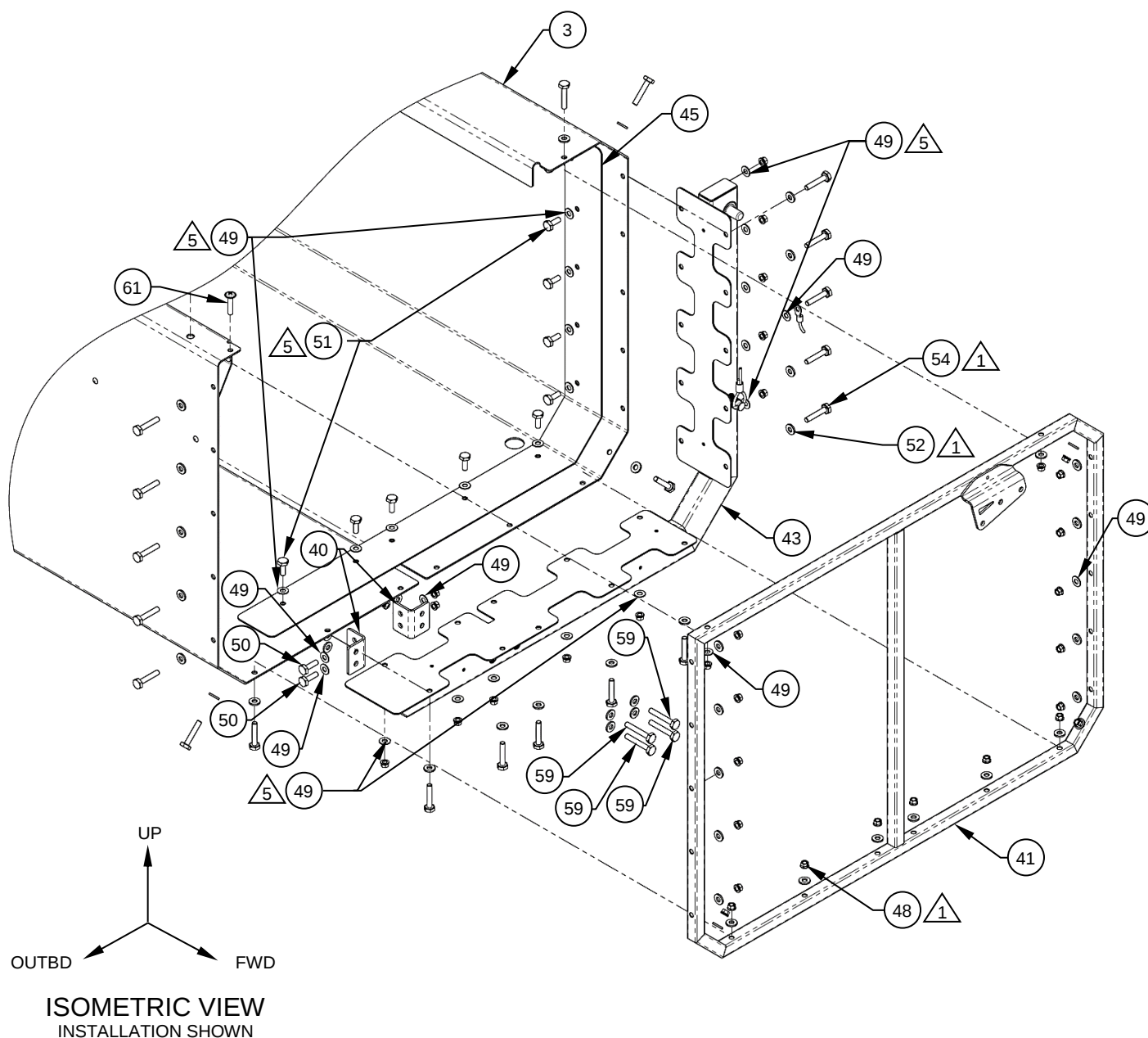
Body, Assy (Item 2)
Installation Shown

Illustrated Parts Breakdown (cont.)



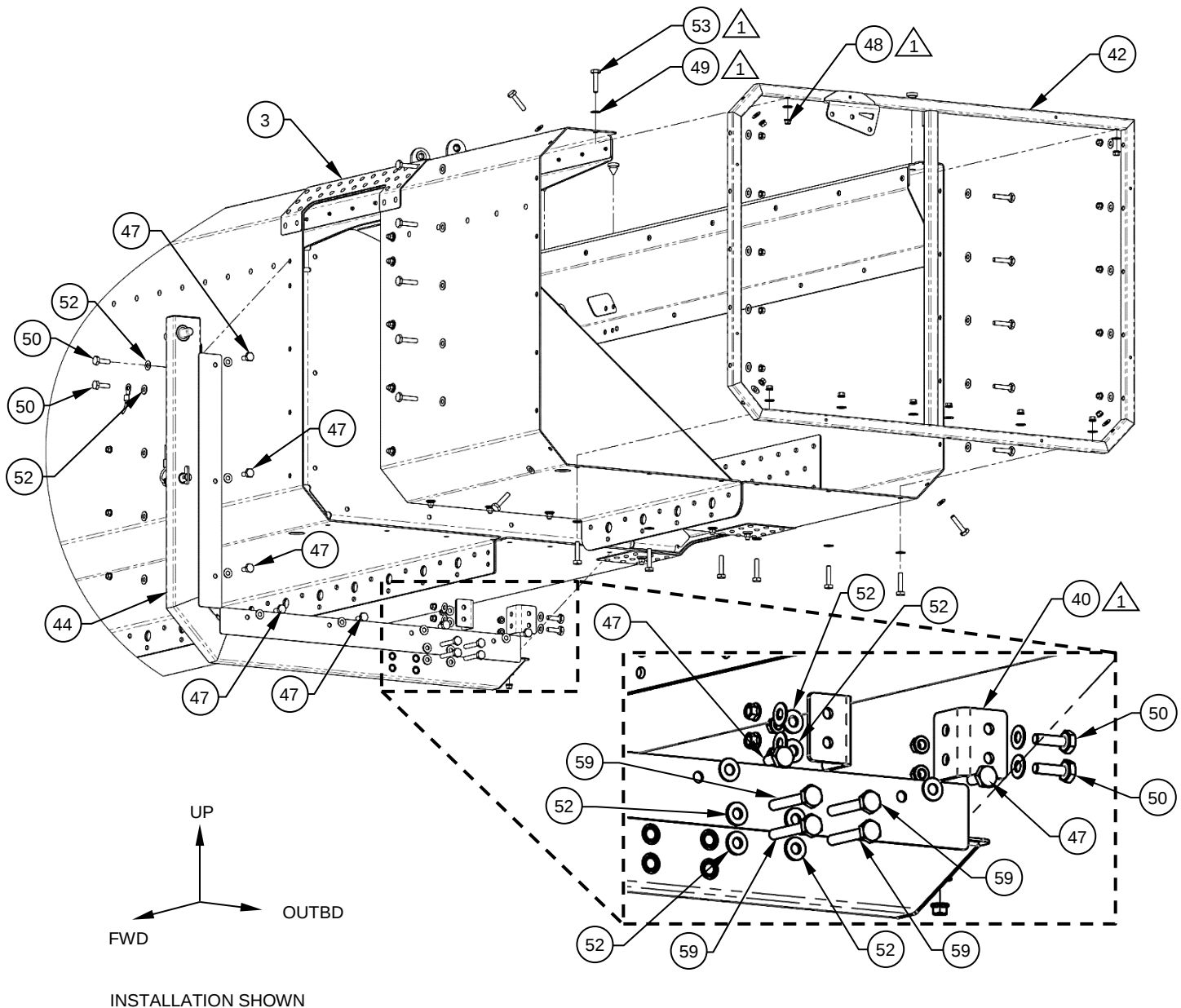
Body, Assy (Item 2)
Installation Shown

Illustrated Parts Breakdown (cont.)



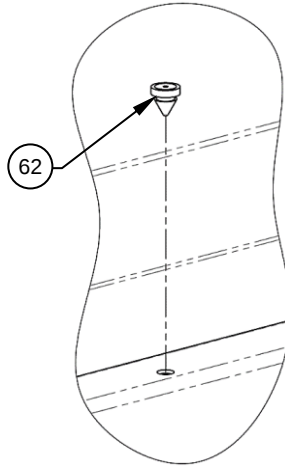
Body, Assy (Item 2)
FWD End Installation Shown
Some items removed for clarity.

Illustrated Parts Breakdown (cont.)

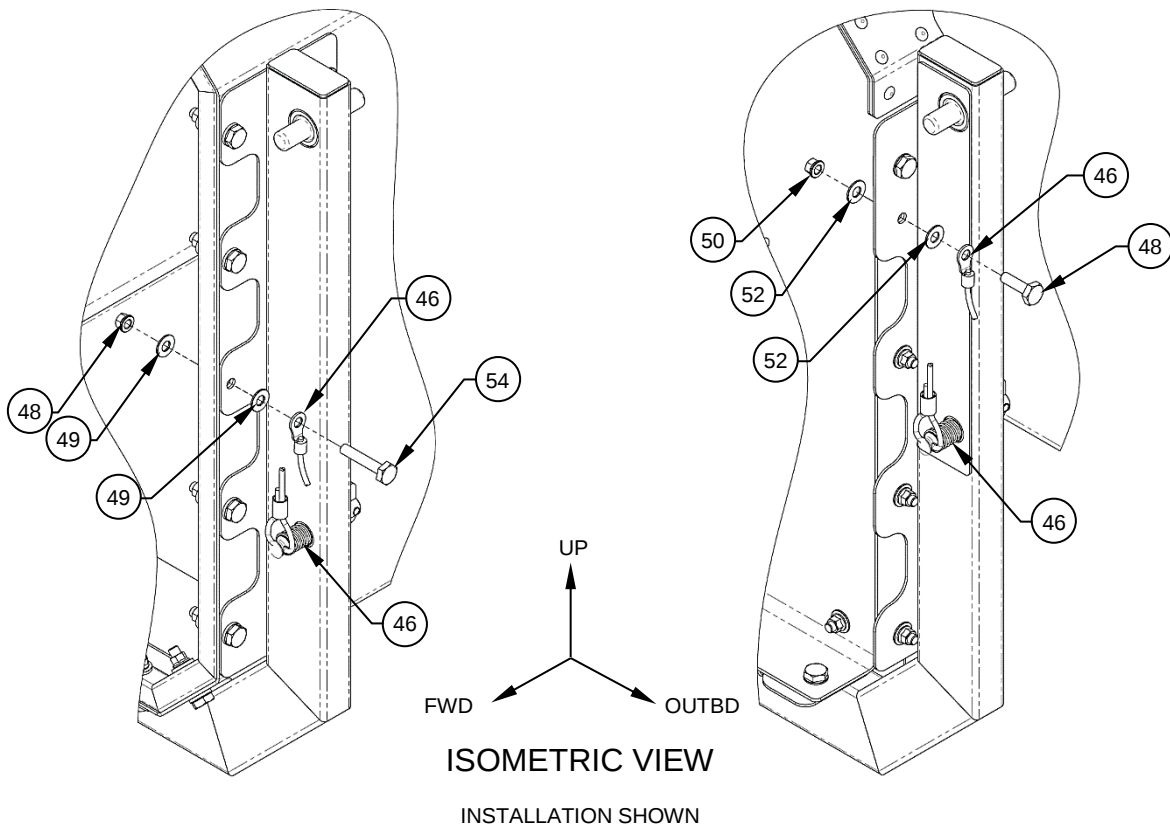


Body, Assy (Item 2)
AFT End Installation Shown
Some items removed for clarity

Illustrated Parts Breakdown (cont.)



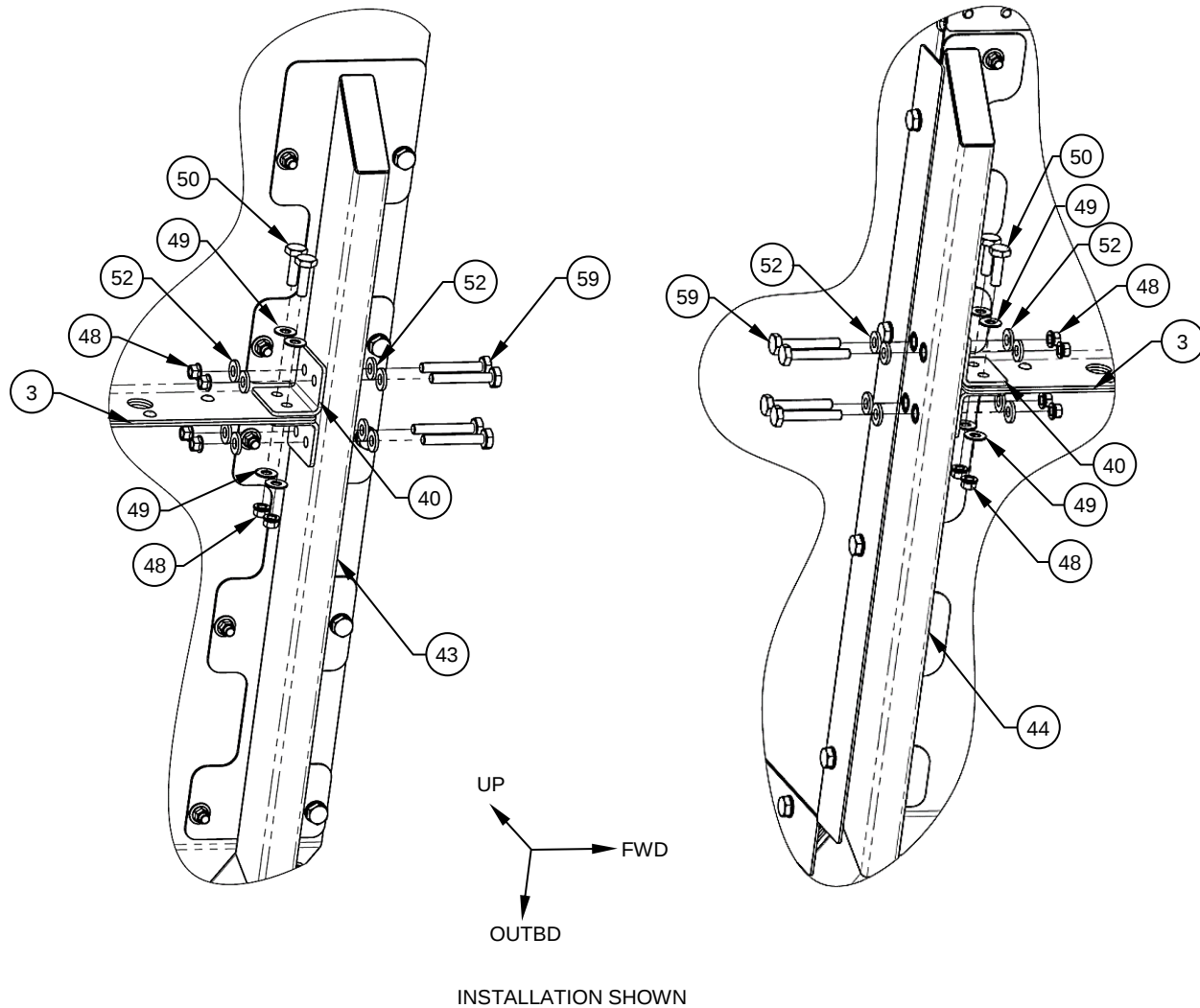
Body, Assy (Item 2)
Item 62 Installation Shown



Body, Assy (Item 2)
FWD Pin, Assy Installation Shown
Some items removed for clarity.

Body, Assy (Item 2)
AFT Pin, Assy Installation Shown
Some items removed for clarity.

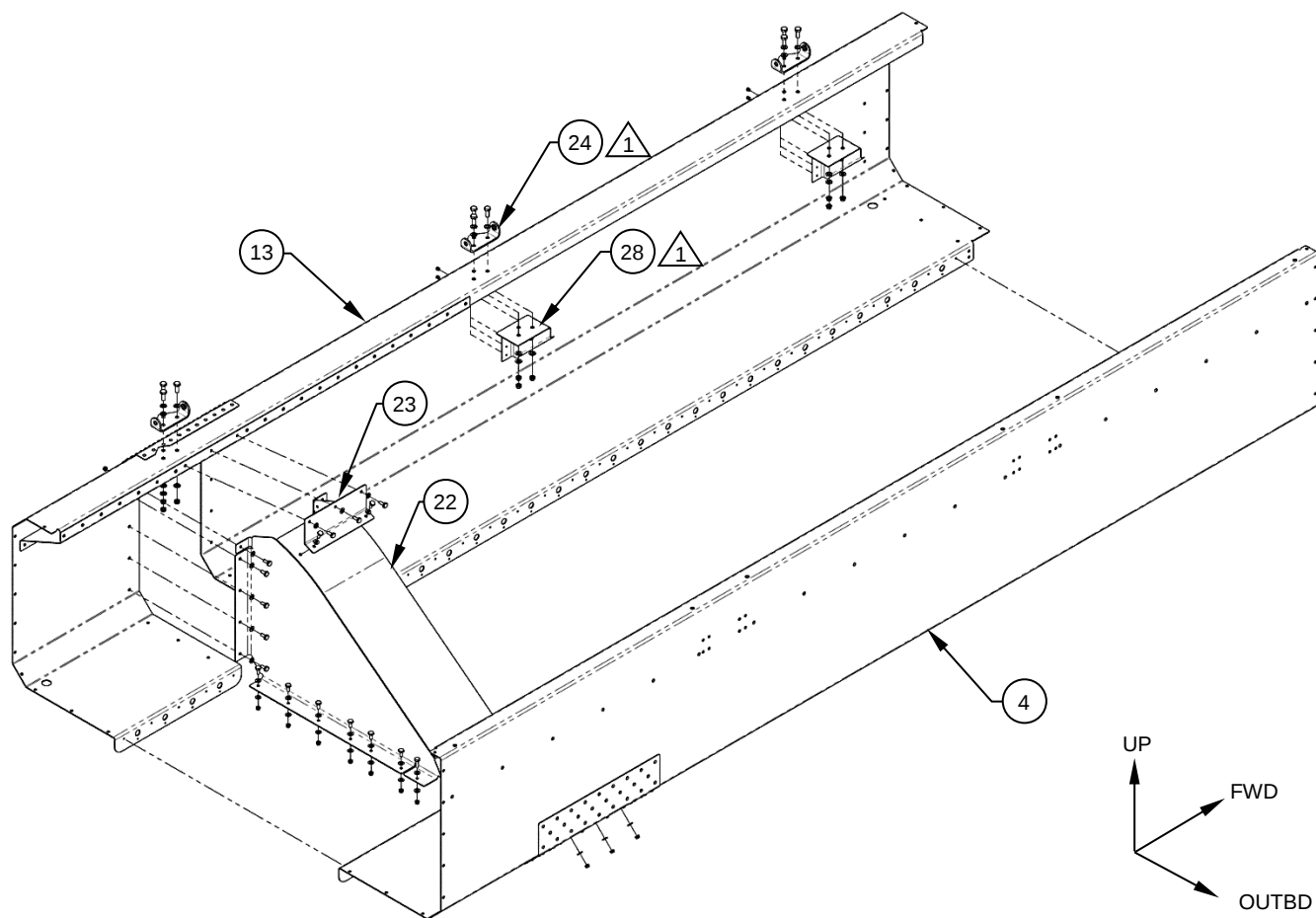
Illustrated Parts Breakdown (cont.)



Body, Assy (Item 2)
FWD Support Installation Shown

Body, Assy (Item 2)
AFT Support Installation Shown

Illustrated Parts Breakdown (cont.)

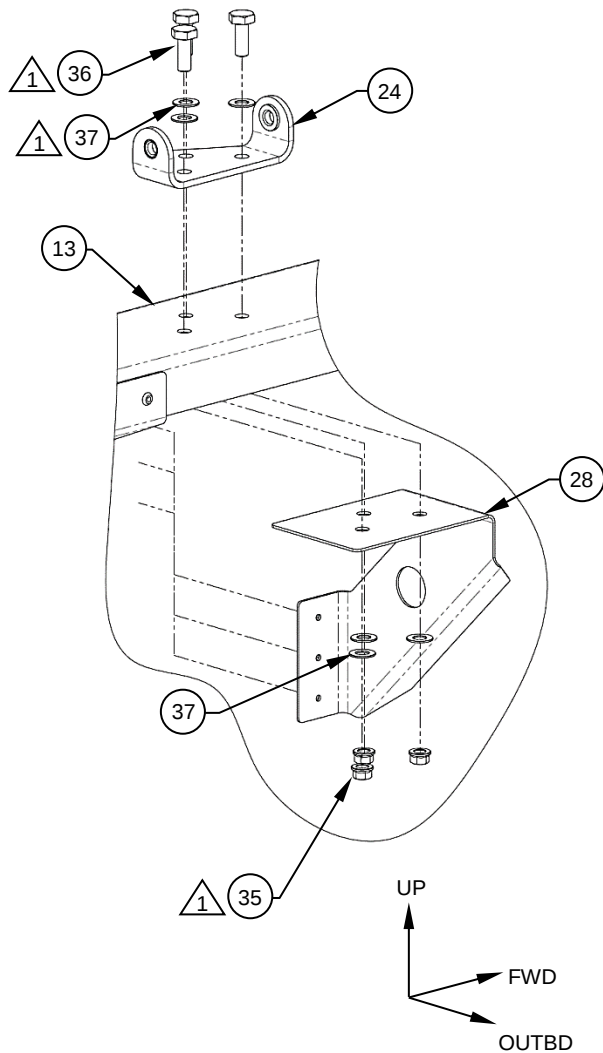


ISOMETRIC VIEW

INSTALLATION SHOWN

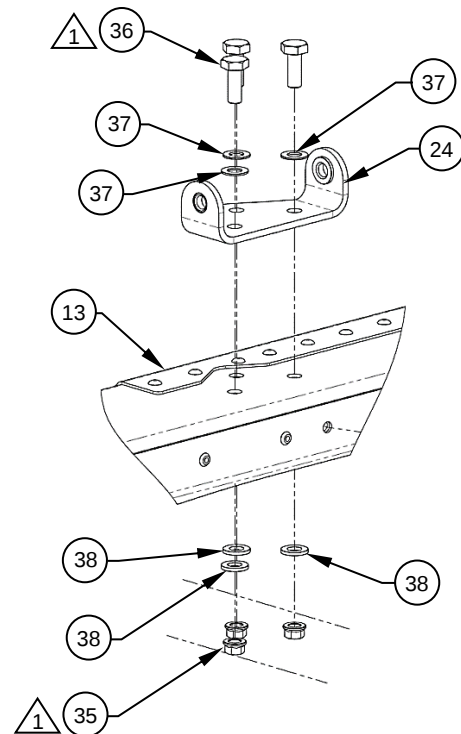
Skin, Assy (Item 3)
Installation Shown

Illustrated Parts Breakdown (cont.)

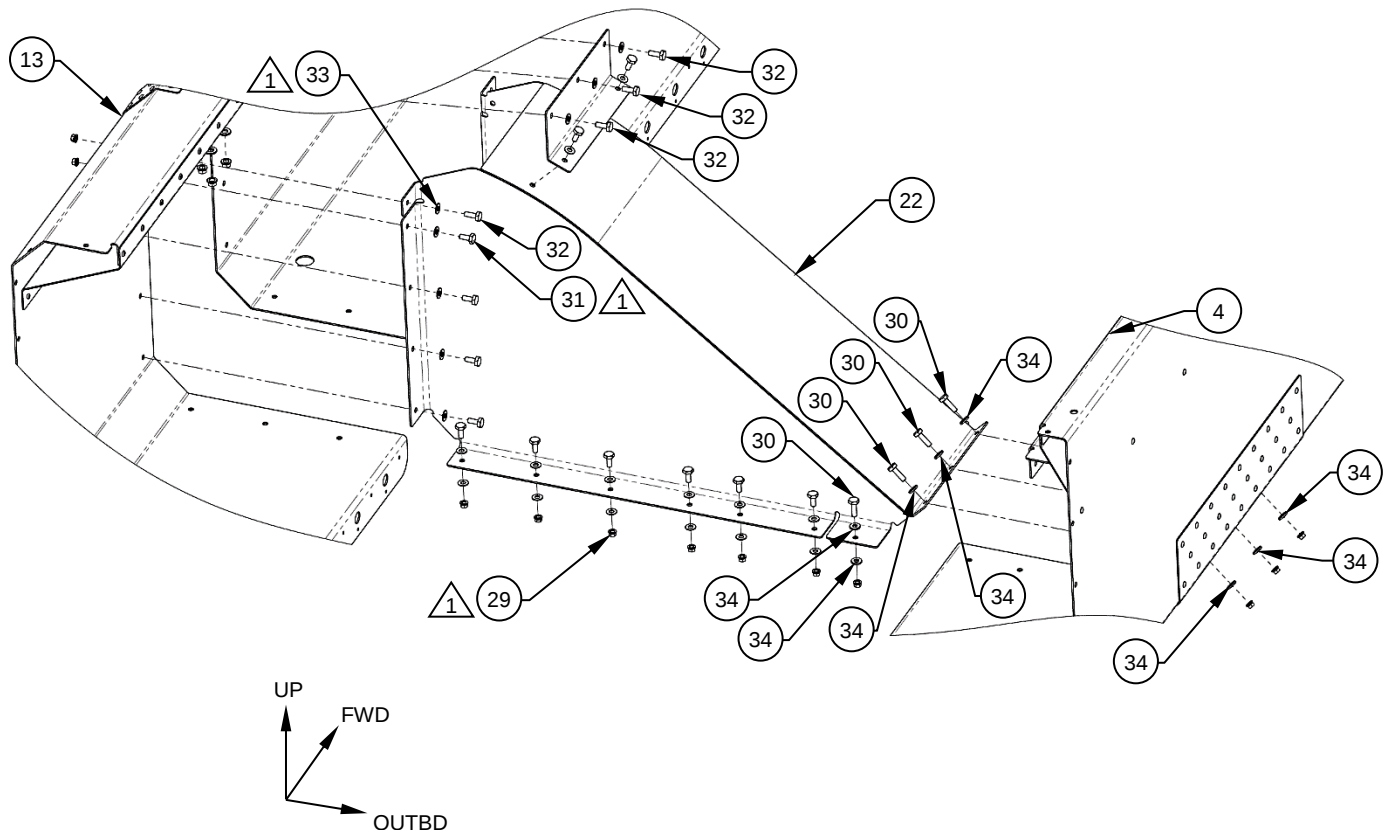


INSTALLATION SHOWN

Skin, Assy (Item 3)
Hinge, Assy Installation Shown



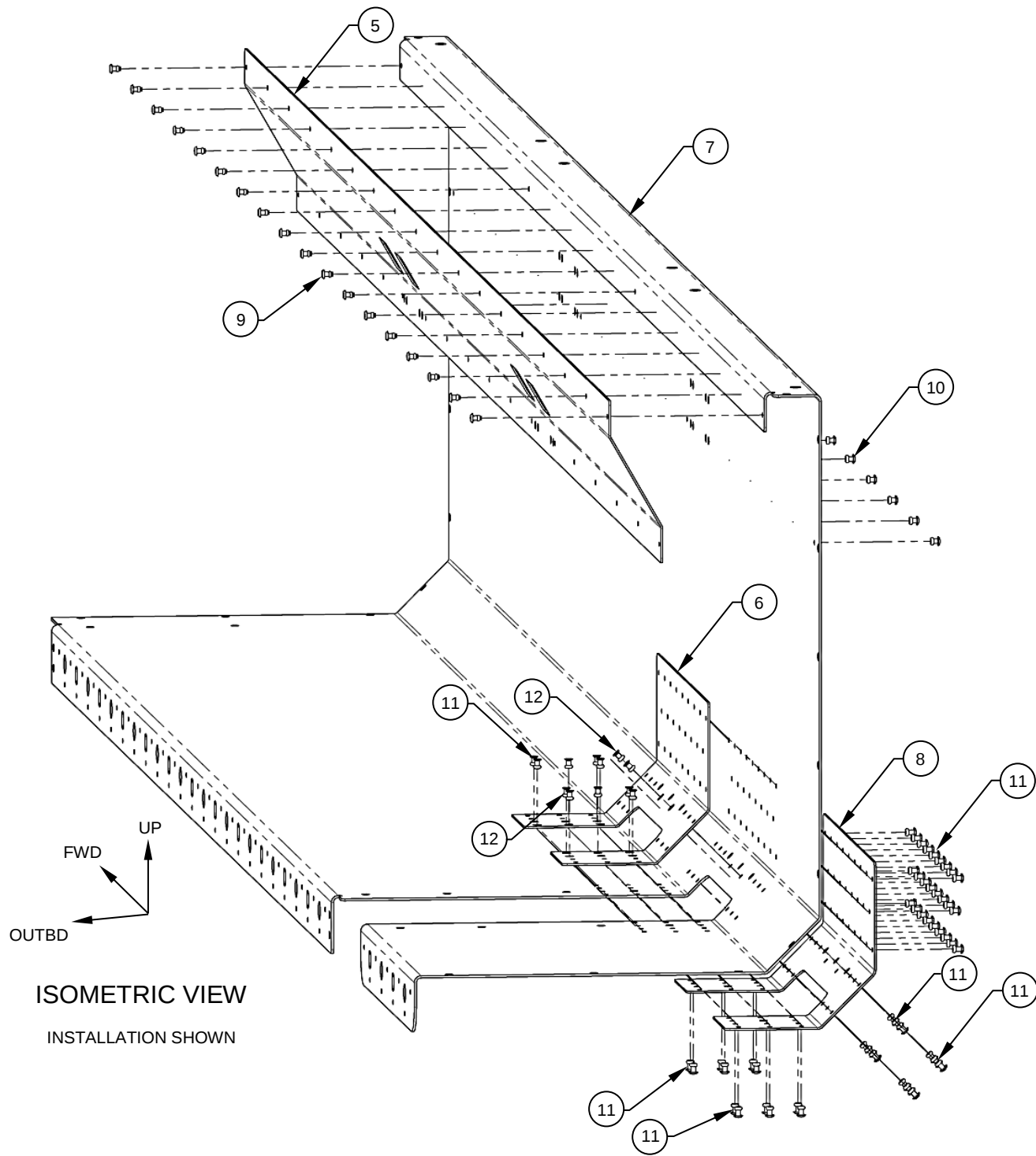
Illustrated Parts Breakdown (cont.)



INSTALLATION SHOWN

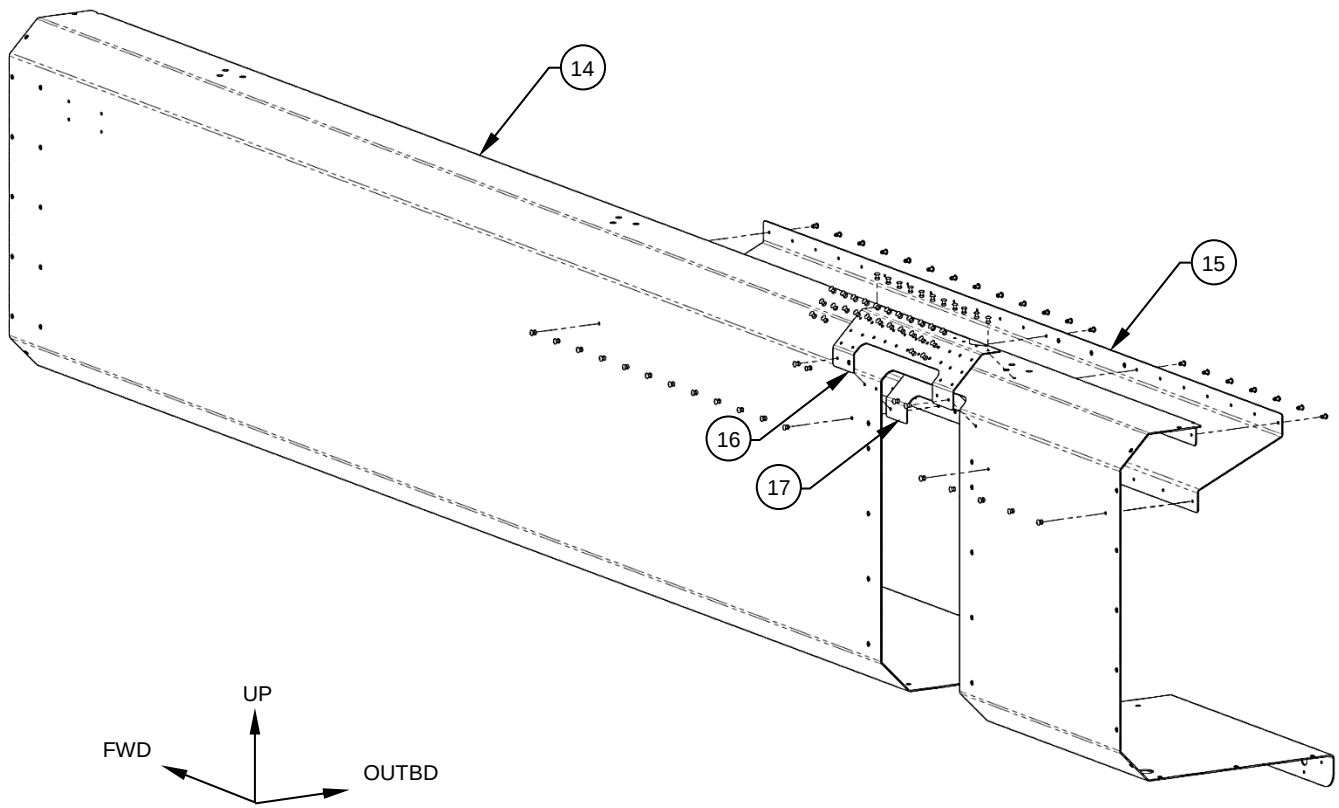
Skin, Assy (Item 3)
Tunnel, Assy Installation Shown

Illustrated Parts Breakdown (cont.)



Skin, OUTBD, Assy (Item 4)
Installation Shown

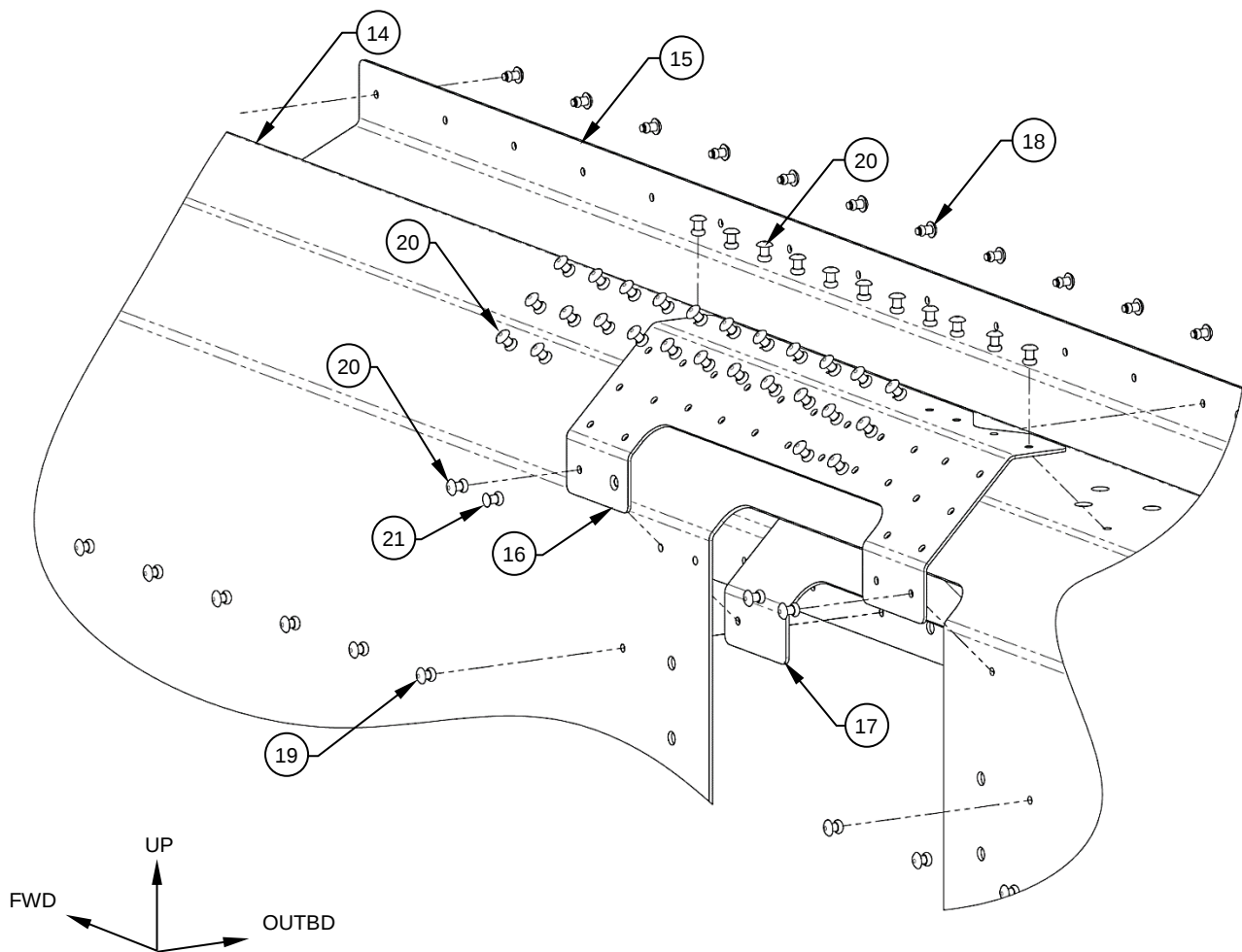
Illustrated Parts Breakdown (cont.)



INSTALLATION SHOWN

Skin, INBD, Assy (Item 13)
Installation Shown

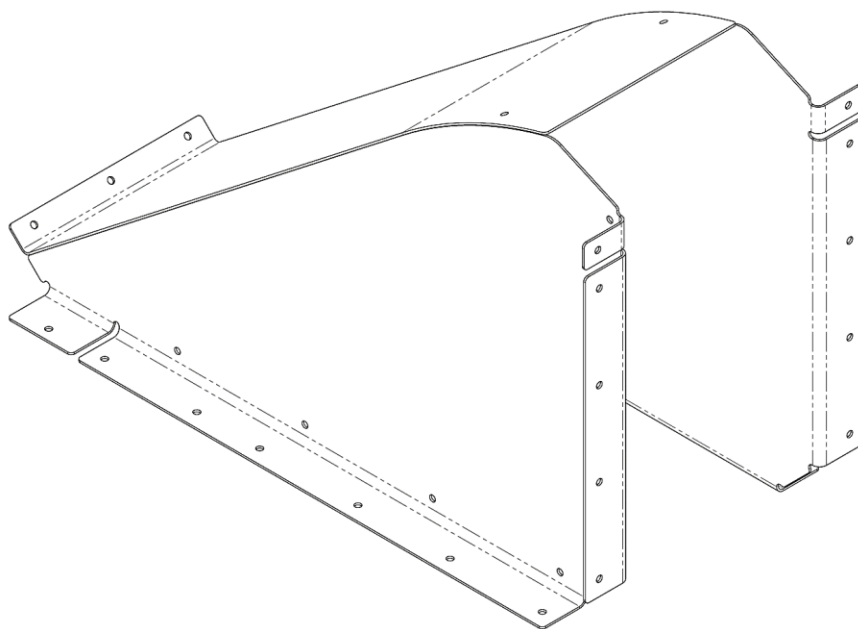
Illustrated Parts Breakdown (cont.)



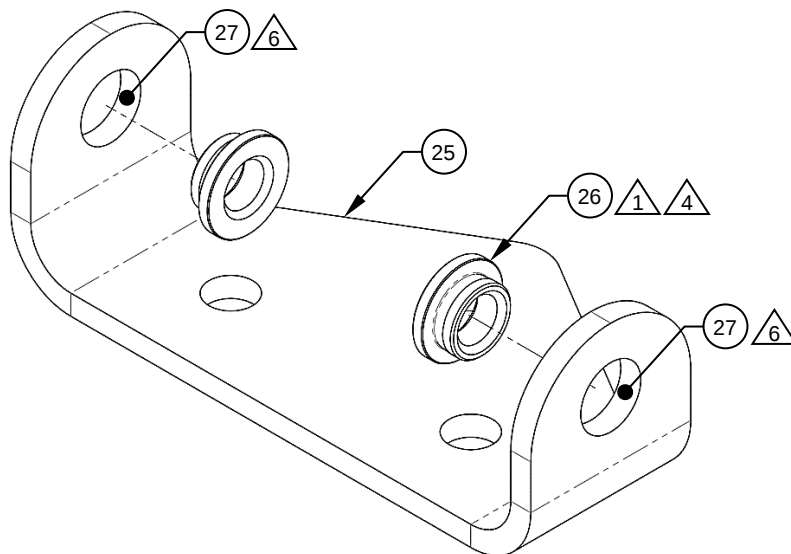
INSTALLATION SHOWN

Skin, INBD, Assy (Item 13)
Installation Shown

Illustrated Parts Breakdown (cont.)

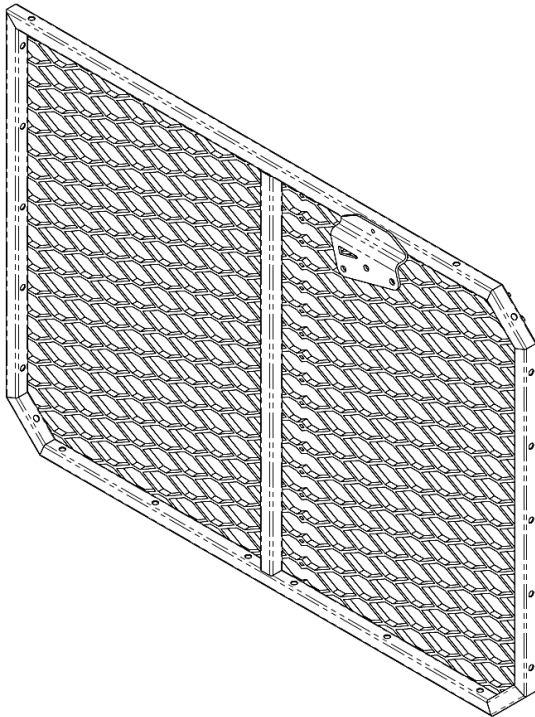


Tunnel, Assy (Item 22)
Shown

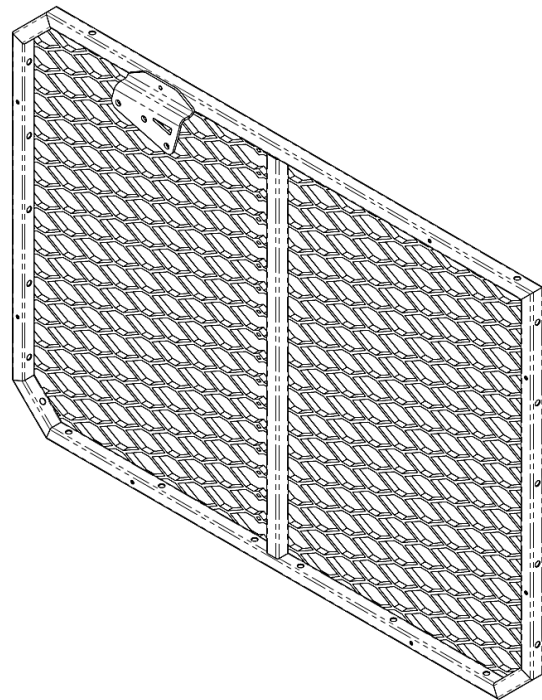


Hinge, Assy (Item 24)
Installation Shown

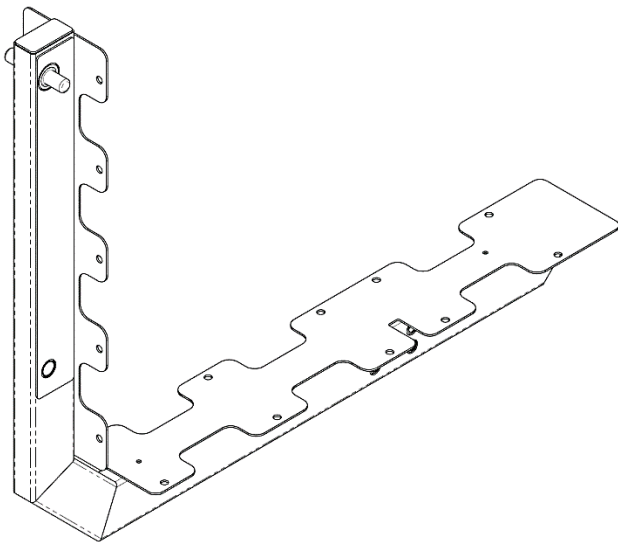
Illustrated Parts Breakdown (cont.)



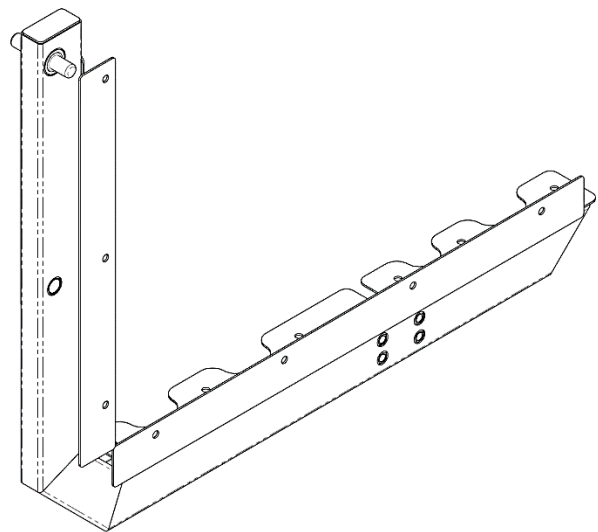
End, FWD, Assy (Item 41)
Shown



End, AFT, Assy (Item 42)
Shown

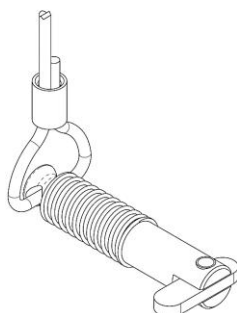


Support, FWD, Assy (Item 43)
Shown

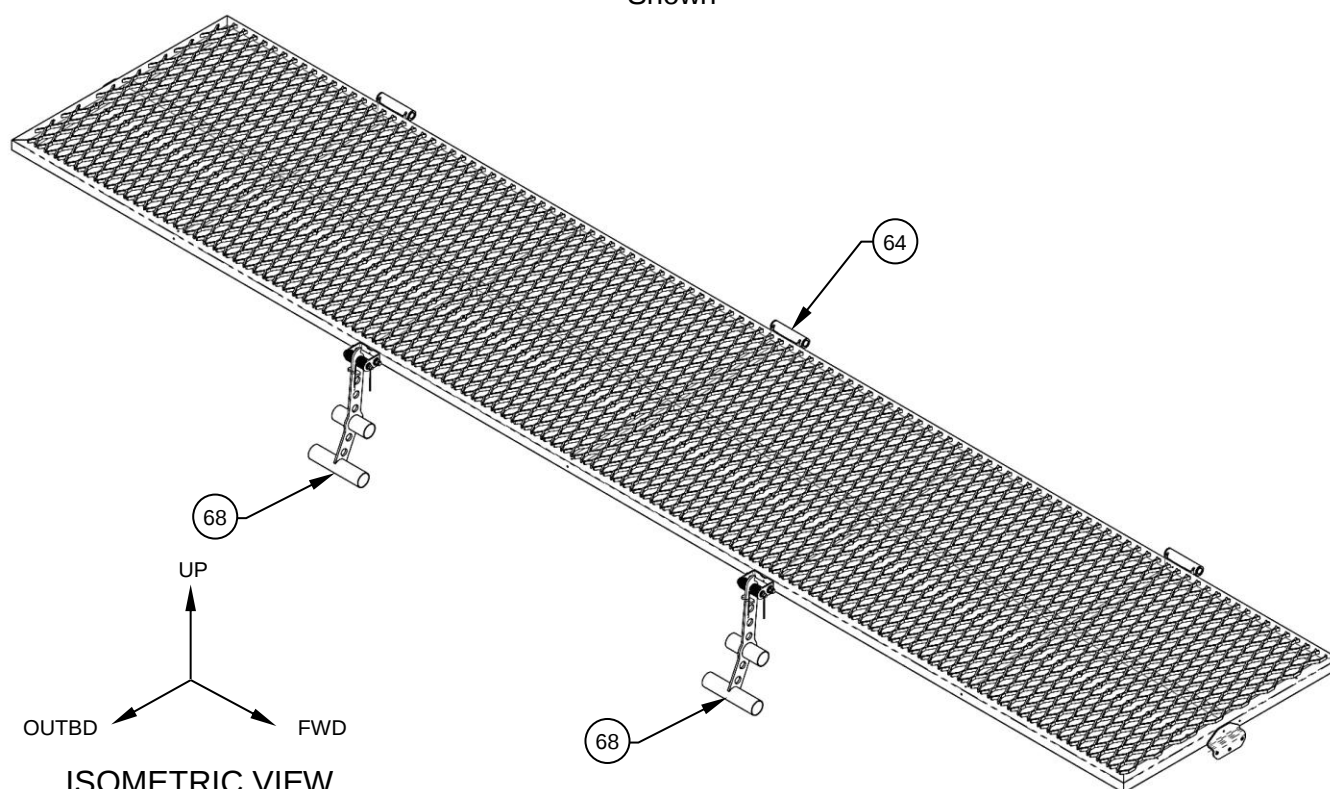


Support, AFT, Assy (Item 44)
Shown

Illustrated Parts Breakdown (cont.)



Pin, Assy (Item 46)
Shown

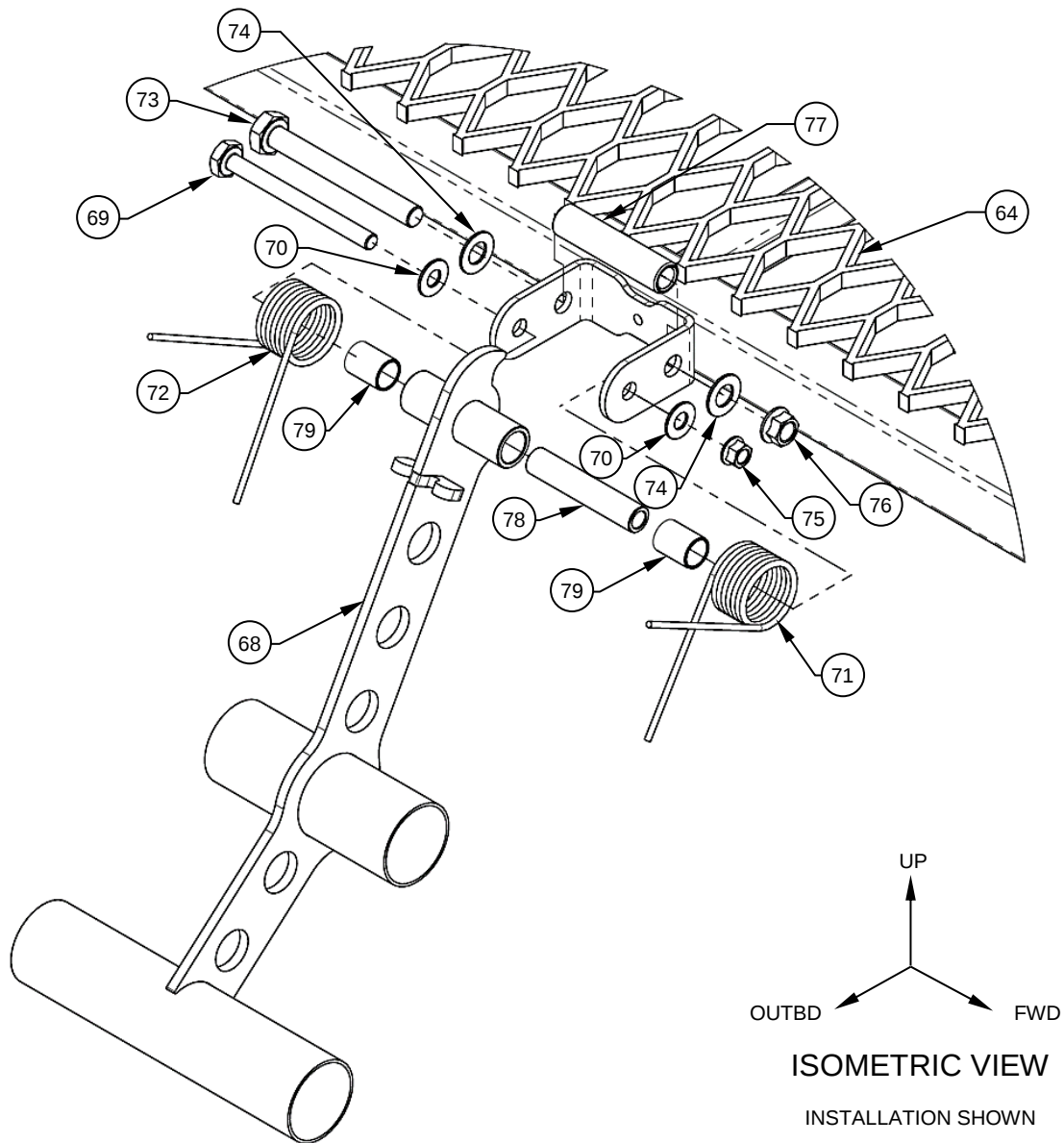


ISOMETRIC VIEW

INSTALLATION SHOWN

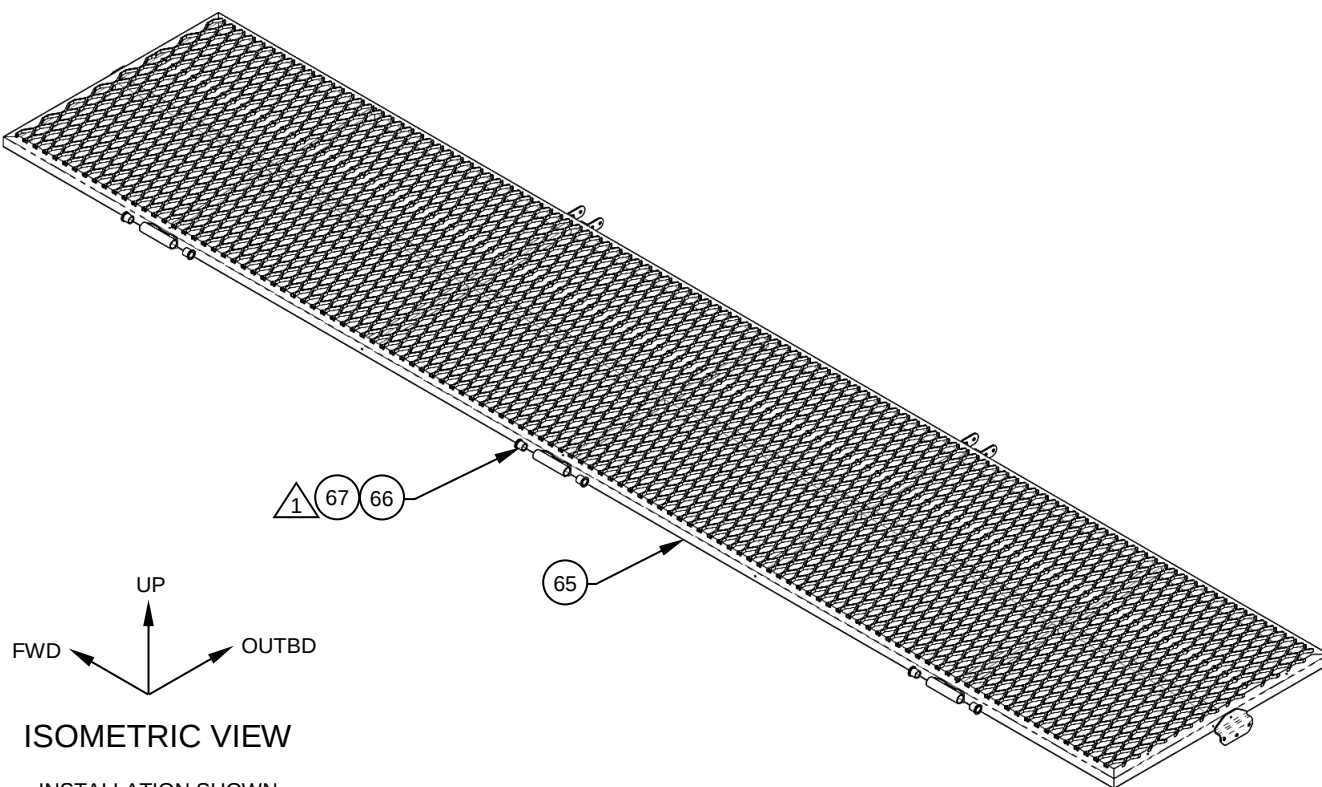
Lid, Assy (Item 63)
Installation Shown

Illustrated Parts Breakdown (cont.)



Lid, Assy (Item 63)
Handle Installation Shown

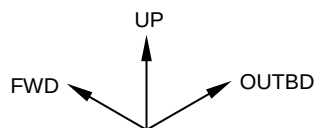
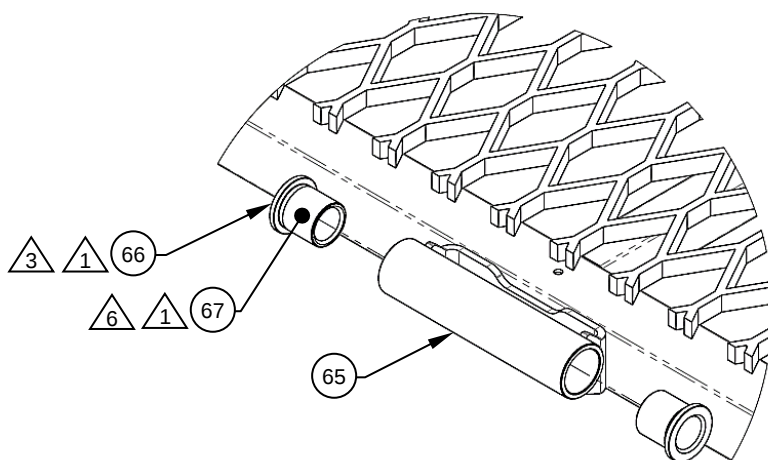
Illustrated Parts Breakdown (cont.)



ISOMETRIC VIEW

INSTALLATION SHOWN

Lid, Assy (Item 64)
Installation Shown

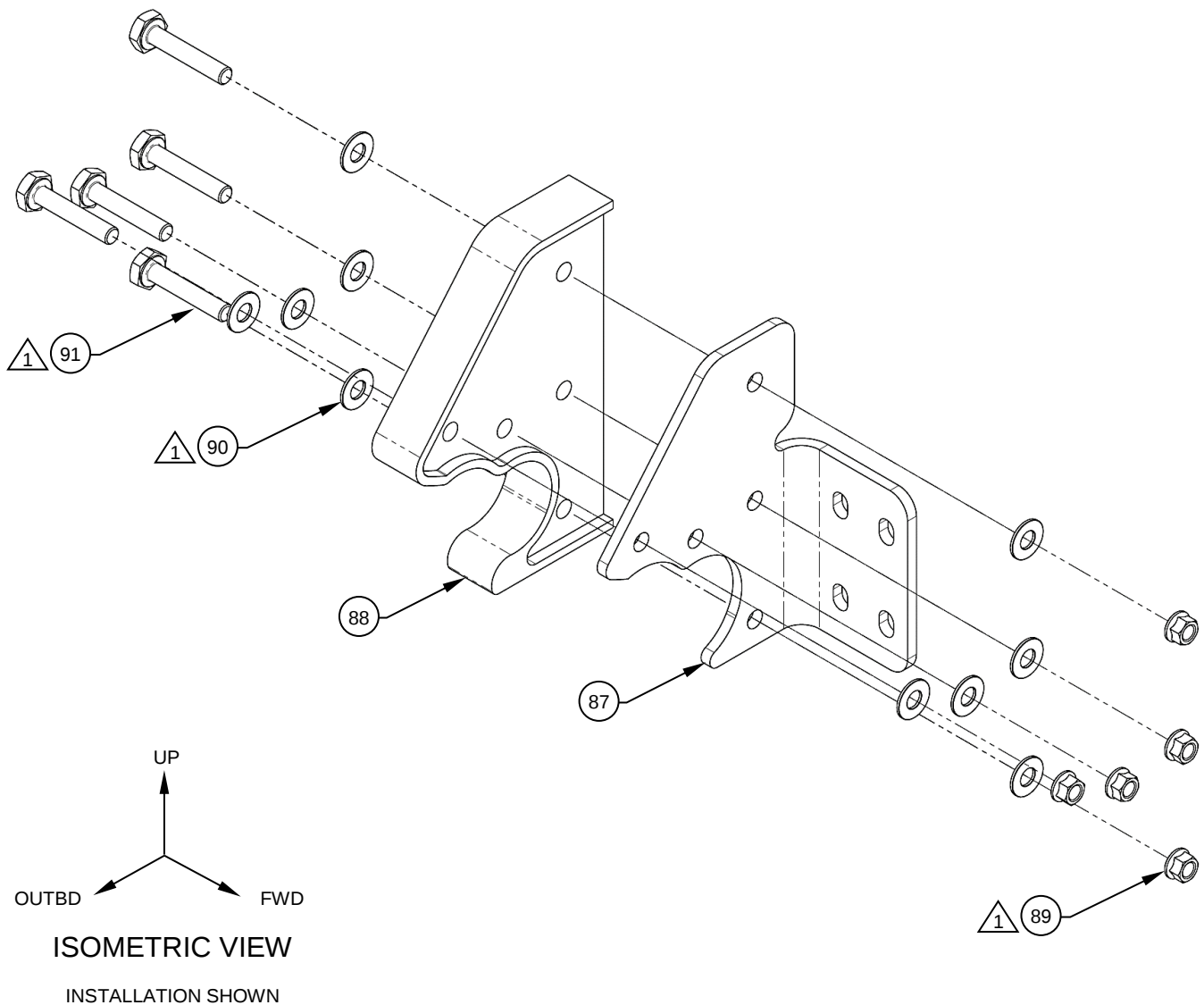


ISOMETRIC VIEW

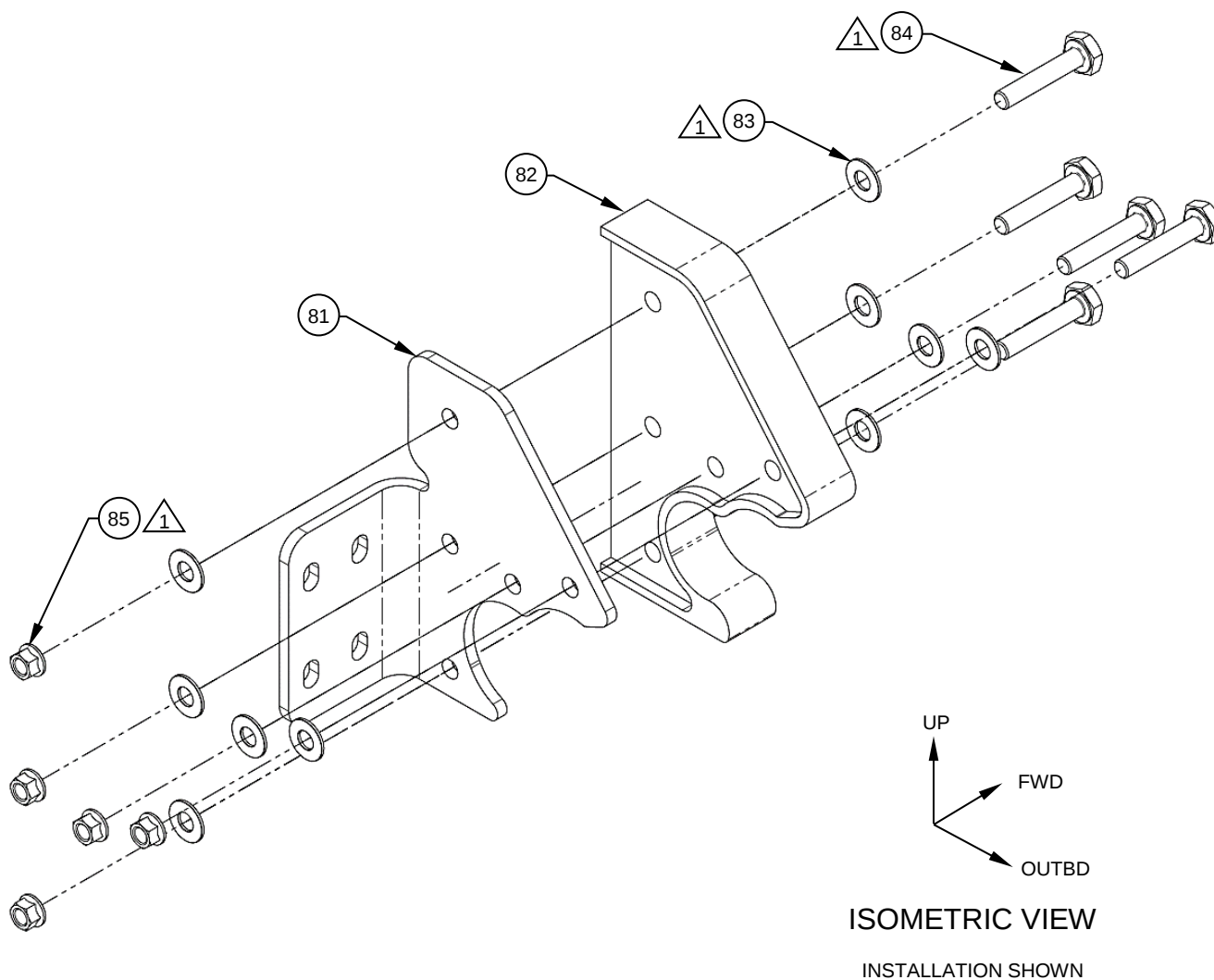
INSTALLATION SHOWN

Lid, Assy (Item 64)
Installation Shown

Illustrated Parts Breakdown (cont.)



Illustrated Parts Breakdown (cont.)



Striker, AFT, Assy (80)
Installation Shown

Illustrated Parts Breakdown (cont.)

ITEM	QTY	NUMBER	DESCRIPTION	MATERIAL	REF STOCK SIZE	SPEC	FINISH	MANUFACTURER	NCAGEC
-	-	AAL-390-040-001	BELL 407 UTILITY BASKET, KIT	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
1	1	AAL-390-041-001	UTILITY BASKET, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
2	1	AAL-390-041-002	BODY, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
3	1	AAL-390-041-021	SKIN, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
4	1	AAL-390-041-004	SKIN, OUTBD, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
5	1	AAL-390-042-006	BRACKET, DETAIL	6061-T6 ALUMINUM	.050"	AMS 4027	SEE SPEC	ALPINE AEROTECH LP	L0171
6	1	AAL-390-042-011	DOUBLER, DETAIL	6061-T6 ALUMINUM	.050"	AMS 4027	SEE SPEC	ALPINE AEROTECH LP	L0171
7	1	AAL-390-042-005	SKIN, OUTBD, DETAIL	6061-T6 ALUMINUM	.0625"	AMS 4027	SEE SPEC	ALPINE AEROTECH LP	L0171
8	1	AAL-390-042-012	DOUBLER, DETAIL	6061-T6 ALUMINUM	.050"	AMS 4027	SEE SPEC	ALPINE AEROTECH LP	L0171
9	18	CR3213-4-02	RIVET, CHERRYMAX	SEE SPEC	SEE SPEC	SEE MFR	SEE SPEC	TEXTRON FASTENING SYSTEMS	93907
10	18	MS20470AD4-5	RIVET, SOLID, UNIVERSAL HEAD	SEE SPEC	SEE SPEC	NASM20470	SEE SPEC	SOURCE AS REQUIRED	NA
11	50	MS20470AD4-5-5	RIVET, SOLID, UNIVERSAL HEAD	SEE SPEC	SEE SPEC	NASM20470	SEE SPEC	SOURCE AS REQUIRED	NA
12	12	MS20426AD4-5-5	RIVET, SOLID, COUNTERSUNK HEAD	SEE SPEC	SEE SPEC	NASM20426	SEE SPEC	SOURCE AS REQUIRED	NA
13	1	AAL-390-041-003	SKIN, INBD, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
14	1	AAL-390-042-001	SKIN, INBD, DETAIL	6061-T6 ALUMINUM	0.0625	AMS 4027	SEE SPEC	ALPINE AEROTECH LP	L0171
15	1	AAL-390-042-002	BRACKET, DETAIL	6061-T6 ALUMINUM	.050"	AMS 4027	SEE SPEC	ALPINE AEROTECH LP	L0171
16	1	AAL-390-042-003	DOUBLER, DETAIL	6061-T6 ALUMINUM	.050"	AMS 4027	SEE SPEC	ALPINE AEROTECH LP	L0171
17	1	AAL-390-042-004	DOUBLER, DETAIL	6061-T6 ALUMINUM	.050"	AMS 4027	SEE SPEC	ALPINE AEROTECH LP	L0171
18	20	CR3213-4-02	RIVET, CHERRYMAX	SEE SPEC	SEE SPEC	SEE MFR	SEE SPEC	TEXTRON FASTENING SYSTEMS	93907
19	17	MS20470AD4-5	RIVET, SOLID, UNIVERSAL HEAD	SEE SPEC	SEE SPEC	NASM20470	SEE SPEC	SOURCE AS REQUIRED	NA
20	40	MS20470AD4-5-5	RIVET, SOLID, UNIVERSAL HEAD	SEE SPEC	SEE SPEC	NASM20470	SEE SPEC	SOURCE AS REQUIRED	NA
21	1	MS20426AD4-5-5	RIVET, SOLID, COUNTERSUNK HEAD	SEE SPEC	SEE SPEC	NASM20426	SEE SPEC	SOURCE AS REQUIRED	NA
22	1	AAL-390-041-005	TUNNEL, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
23	1	AAL-390-042-010	BRACKET, DETAIL	6061-T6 ALUMINUM	.0625"	AMS 4027	SEE SPEC	ALPINE AEROTECH LP	L0171
24	3	AAL-390-041-019	HINGE, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
25	1	AAL-390-042-015	BRACKET, DETAIL	6061-T6 ALUMINUM	.125"	AMS 4027	SEE SPEC	ALPINE AEROTECH LP	L0171
26	2	NAS77A4-012N	BUSHING, FLANGED	SEE SPEC	SEE SPEC	NAS77	SEE SPEC	SOURCE AS REQUIRED	NA
27	AR	LOCTITE 243	THREADLOCKER, MEDIUM STRENGTH	LOCTITE 243	SEE MFR	SEE MFR	SEE MFR	HENKEL LOCTITE CORPORATION	79436

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ITEM	QTY	NUMBER	DESCRIPTION	MATERIAL	REF STOCK SIZE	SPEC	FINISH	MANUFACTURER	NCAGEC
28	2	AAL-390-042-014	GUSSET, DETAIL	6061-T6 ALUMINUM	.050"	AMS 4027	SEE SPEC	ALPINE AEROTECH LP	L0171
29	20	MS21043-3	NUT, SELF LOCKING	SEE SPEC	SEE SPEC	NASM21043	SEE SPEC	SOURCE AS REQUIRED	NA
30	4	AN3-5A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR U20	SEE SPEC	SOURCE AS REQUIRED	NA
31	12	AN3-3A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR U20	SEE SPEC	SOURCE AS REQUIRED	NA
32	4	AN3-4A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR U20	SEE SPEC	SOURCE AS REQUIRED	NA
33	32	NAS1149F0332P	WASHER, FLAT	SEE SPEC	SEE SPEC	NAS1149	SEE SPEC	SOURCE AS REQUIRED	NA
34	8	NAS1149F0363P	WASHER, FLAT	SEE SPEC	SEE SPEC	NAS1149	SEE SPEC	SOURCE AS REQUIRED	NA
35	9	MS21043-4	NUT, SELF LOCKING	SEE SPEC	SEE SPEC	NASM21043	SEE SPEC	SOURCE AS REQUIRED	NA
36	9	AN4-5A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR U20	SEE SPEC	SOURCE AS REQUIRED	NA
37	15	NAS1149F0432P	WASHER, FLAT	SEE SPEC	SEE SPEC	NAS1149	SEE SPEC	SOURCE AS REQUIRED	NA
38	3	NAS1149F0463P	WASHER, FLAT	SEE SPEC	SEE SPEC	NAS1149	SEE SPEC	SOURCE AS REQUIRED	NA
39	62	MS20470AD4-5	RIVET, SOLID, UNIVERSAL HEAD	SEE SPEC	SEE SPEC	NASM20470	SEE SPEC	SOURCE AS REQUIRED	NA
40	4	AAL-390-042-016	BRACKET, DETAIL	4130 STEEL	.083"	AMS 6350	SEE SPEC	ALPINE AEROTECH LP	L0171
41	1	AAL-390-041-009	END, FWD, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
42	1	AAL-390-041-010	END, AFT, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
43	1	AAL-390-041-012	SUPPORT, FWD, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
44	1	AAL-390-041-013	SUPPORT, AFT, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
45	1	AAL-390-042-013	DOUBLER, DETAIL	6061-T6 ALUMINUM	.050"	AMS 4027	SEE SPEC	ALPINE AEROTECH LP	L0171
46	2	AAL-390-041-020	PIN, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
47	7	AN3-3A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR U20	SEE SPEC	SOURCE AS REQUIRED	NA
48	82	MS21043-3	NUT, SELF LOCKING	SEE SPEC	SEE SPEC	NASM21043	SEE SPEC	SOURCE AS REQUIRED	NA
49	104	NAS1149F0332P	WASHER, FLAT	SEE SPEC	SEE SPEC	NAS1149	SEE SPEC	SOURCE AS REQUIRED	NA
50	6	AN3-5A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR U20	SEE SPEC	SOURCE AS REQUIRED	NA
51	19	AN3-4A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR	SEE SPEC	SOURCE AS REQUIRED	NA
52	58	NAS1149F0363P	WASHER, FLAT	SEE SPEC	SEE SPEC	NAS1149	SEE SPEC	SOURCE AS REQUIRED	NA
53	20	AN3-7A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR U20	SEE SPEC	SOURCE AS REQUIRED	NA
54	20	AN3-10A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR U20	SEE SPEC	SOURCE AS REQUIRED	NA

ITEM	QTY	NUMBER	DESCRIPTION	MATERIAL	REF STOCK SIZE	SPEC	FINISH	MANUFACTURER	NCAGEC
59	8	AN3-12A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR U20	SEE SPEC	SOURCE AS REQUIRED	NA
60	56	MS20470AD4-5	RIVET, SOLID, UNIVERSAL HEAD	SEE SPEC	SEE SPEC	NASM20470	SEE SPEC	SOURCE AS REQUIRED	NA
61	2	AN525-10R14	SCREW, WASHER HEAD	SEE SPEC	SEE SPEC	NASM525	SEE SPEC	SOURCE AS REQUIRED	NA
62	6	1432A11	PUSH-IN DOOR SILENCERS FOR METAL FRAMES	RUBBER	5/16"IDX1/2"ODX 1/8"	SEE MFG	SEE MFG	SOURCE AS REQUIRED	NA
63	1	AAL-390-041-006	LID, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
64	1	AAL-390-041-007	LID, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
65	1	AAL-390-041-008	WELDMENT, LID, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
66	6	NAS77A6-048N	BUSHING, FLANGED	SEE SPEC	SEE SPEC	NAS77	SEE SPEC	SOURCE AS REQUIRED	NA
67	AR	LOCTITE 243	THREADLOCKER, MEDIUM STRENGTH	LOCTITE 243	SEE MFR	SEE MFR	SEE MFR	HENKEL LOCTITE CORPORATION	79436
68	2	AAL-390-041-016	HANDLE, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
69	2	AN3-21A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR U20	SEE SPEC	SOURCE AS REQUIRED	NA
70	4	NAS1149F0332P	WASHER, FLAT	SEE SPEC	SEE SPEC	NAS1149	SEE SPEC	SOURCE AS REQUIRED	NA
71	2	9287K175	TORSION SPRING-LH, DETAIL	302 STAINLESS STEEL	.826"ODX.07"WD - LEFT HAND	SEE MFG	SEE MFG	SOURCE AS REQUIRED	NA
72	2	9287K171	TORSION SPRING-RH, DETAIL	302 STAINLESS STEEL	.826"ODX.07"WD - RIGHT HAND	SEE MFG	SEE MFG	SOURCE AS REQUIRED	NA
73	2	AN4-21A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR U20	SEE SPEC	SOURCE AS REQUIRED	NA
74	4	NAS1149F0432P	WASHER, FLAT	SEE SPEC	SEE SPEC	NAS1149	SEE SPEC	SOURCE AS REQUIRED	NA
75	2	MS21043-3	NUT, SELF LOCKING	SEE SPEC	SEE SPEC	NASM21043	SEE SPEC	SOURCE AS REQUIRED	NA
76	2	MS21043-4	NUT, SELF LOCKING	SEE SPEC	SEE SPEC	NASM21043	SEE SPEC	SOURCE AS REQUIRED	NA
77	2	AAL-390-042-074	BUSHING, DETAIL	304 STAINLESS STEEL	.375"	AMS 5857	SEE SPEC	ALPINE AEROTECH LP	L0171
78	2	AAL-390-042-025	BUSHING, DETAIL	304 STAINLESS STEEL	.3125"	AMS 5857	SEE SPEC	ALPINE AEROTECH LP	L0171
79	4	6621K125	SLEEVE BEARING, DETAIL	PEEK PLASTIC	.3758" OD X .03015" WALL	SEE NOTES	SEE SPEC	SOURCE AS REQUIRED	N.A.
80	2	AAL-390-041-018	STRIKER, AFT, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
81	1	AAL-390-042-069	BRACKET, DETAIL	6061-T6 ALUMINUM	.125"	AMS 4027	SEE SPEC	ALPINE AEROTECH LP	L0171
82	1	AAL-390-042-071	STRIKER, DETAIL	UHMWPE	.625"	SEE NOTES	SEE SPEC	ALPINE AEROTECH LP	L0171
83	10	NAS1149F0332P	WASHER, FLAT	SEE SPEC	SEE SPEC	NAS1149	SEE SPEC	SOURCE AS REQUIRED	NA
84	5	AN3-10A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR U20	SEE SPEC	SOURCE AS REQUIRED	NA

ITEM	QTY	NUMBER	DESCRIPTION	MATERIAL	REF STOCK SIZE	SPEC	FINISH	MANUFACTURER	NCAGEC
85	5	MS21043-3	NUT, SELF LOCKING	SEE SPEC	SEE SPEC	NASM21043	SEE SPEC	SOURCE AS REQUIRED	NA
86	2	AAL-390-041-017	STRIKER, FWD, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
87	1	AAL-390-042-070	BRACKET, DETAIL	6061-T6 ALUMINUM	.125"	AMS 4027	SEE SPEC	ALPINE AEROTECH LP	L0171
88	1	AAL-390-042-072	STRIKER, DETAIL	UHMWPE	.625"	SEE NOTES	SEE SPEC	ALPINE AEROTECH LP	L0171
89	5	MS21043-3	NUT, SELF LOCKING	SEE SPEC	SEE SPEC	NASM21043	SEE SPEC	SOURCE AS REQUIRED	NA
90	10	NAS1149F0332P	WASHER, FLAT	SEE SPEC	SEE SPEC	NAS1149	SEE SPEC	SOURCE AS REQUIRED	NA
91	5	AN3-10A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR U20	SEE SPEC	SOURCE AS REQUIRED	NA
92	4	AAL-390-042-076	GAS SPRING BRACKET, DETAIL	304 STAINLESS STEEL	M5	SEE NOTES	SEE SPEC	ALPINE AEROTECH LP	L0171
93	2	6-15-100	GAS SPRING	304 STAINLESS STEEL	6-15 X 100 mm STROKE	SEE MFG	SEE MFG	GASSPRING.CA	NA
94	3	AAL-390-042-026	BUSHING, DETAIL	304 STAINLESS STEEL	.375"	AMS 5857	SEE SPEC	ALPINE AEROTECH LP	L0171
95	3	AN4-36A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR U20	SEE SPEC	SOURCE AS REQUIRED	NA
96	3	MS21043-4	NUT, SELF LOCKING	SEE SPEC	SEE SPEC	NASM21043	SEE SPEC	SOURCE AS REQUIRED	NA
97	6	NAS1149F0463P	WASHER, FLAT	SEE SPEC	SEE SPEC	NAS1149	SEE SPEC	SOURCE AS REQUIRED	NA
98	24	NAS1149F0332P	WASHER, FLAT	SEE SPEC	SEE SPEC	NAS1149	SEE SPEC	SOURCE AS REQUIRED	NA
99	16	AN3-5A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR U20	SEE SPEC	SOURCE AS REQUIRED	NA
100	28	MS21043-3	NUT, SELF LOCKING	SEE SPEC	SEE SPEC	NASM21043	SEE SPEC	SOURCE AS REQUIRED	NA
101	12	AN3-4A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR U20	SEE SPEC	SOURCE AS REQUIRED	NA
102	32	NAS1149F0363P	WASHER, FLAT	SEE SPEC	SEE SPEC	NAS1149	SEE SPEC	SOURCE AS REQUIRED	NA
103	4	92391A710	HAIRPIN (WRAPAROUND) COTTER PIN	18-8 STAINLESS STEEL	1/4" EYE DIA, 7/8" L	SEE MFR	SEE MFR	SOURCE AS REQUIRED	NA
104	4	99179A103	HEAVY DUTY SIDE-MOUNT EXTERNAL RETAINING RING	15-7 PH STAINLESS STEEL	SHAFT OD 6MM/ GROOVE OD 4.9MM	ASME B18.27.2	PASSIVATE D	SOURCE AS REQUIRED	N/A
105	1	AAL-390-041-014	ATTACHMENT ARM, FWD, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
106	1	AAL-390-041-015	ATTACHMENT ARM, AFT, ASSY	NA	NA	NA	NA	ALPINE AEROTECH LP	L0171
107	2	AAL-390-042-063	BRACKET, DETAIL	4130 STEEL	.100"	AMS 6350	SEE SPEC	ALPINE AEROTECH LP	L0171
108	2	AAL-390-042-064	BRACKET, DETAIL	4130 STEEL	.100"	AMS 6350	SEE SPEC	ALPINE AEROTECH LP	L0171
109	1	AAL-390-042-077	DECAL, DETAIL	SEE NOTES	.002 THK	NA	AS SUPPLIED	ALPINE AEROTECH LP	L0171
110	AR	N/A	SEALANT, CORROSION INHIBITIVE	PS 870 CLASS A	SEE MFR	MIL-PRF-81733	NA	PRC-DESOTO INTERNATIONAL	83574
111	1	AAL-390-042-079	DECAL, DETAIL	SEE NOTES	.002 THK	NA	AS SUPPLIED	ALPINE AEROTECH LP	L0171

ITEM	QTY	NUMBER	DESCRIPTION	MATERIAL	REF STOCK SIZE	SPEC	FINISH	MANUFACTURER	NCAGEC
112	1	AAL-390-042-080	DECAL, DETAIL	SEE NOTES	.002 THK	NA	AS SUPPLIED	ALPINE AEROTECH LP	L0171
113	2	AAL-390-042-081	DECAL, DETAIL	SEE NOTES	.002 THK	NA	AS SUPPLIED	ALPINE AEROTECH LP	L0171
114	36	NAS1149F0463P	WASHER, FLAT	SEE SPEC	SEE SPEC	NAS1149	SEE SPEC	SOURCE AS REQUIRED	NA
115	12	AN4-5A	BOLT, MACHINE	SEE SPEC	SEE SPEC	NASM3THR U20	SEE SPEC	SOURCE AS REQUIRED	NA
116	12	MS21043-4	NUT, SELF LOCKING	SEE SPEC	SEE SPEC	NASM21043	SEE SPEC	SOURCE AS REQUIRED	NA
117	8	NAS6604-9	BOLT, MACHINE	SEE SPEC	SEE SPEC	NAS6603TH RU6620	SEE SPEC	SOURCE AS REQUIRED	NA
118	4	NAS6604-15	BOLT, MACHINE	SEE SPEC	SEE SPEC	NAS6603TH RU6620	SEE SPEC	SOURCE AS REQUIRED	NA
119	8	NAS6604-17	BOLT, MACHINE	SEE SPEC	SEE SPEC	NAS6603TH RU6620	SEE SPEC	SOURCE AS REQUIRED	NA