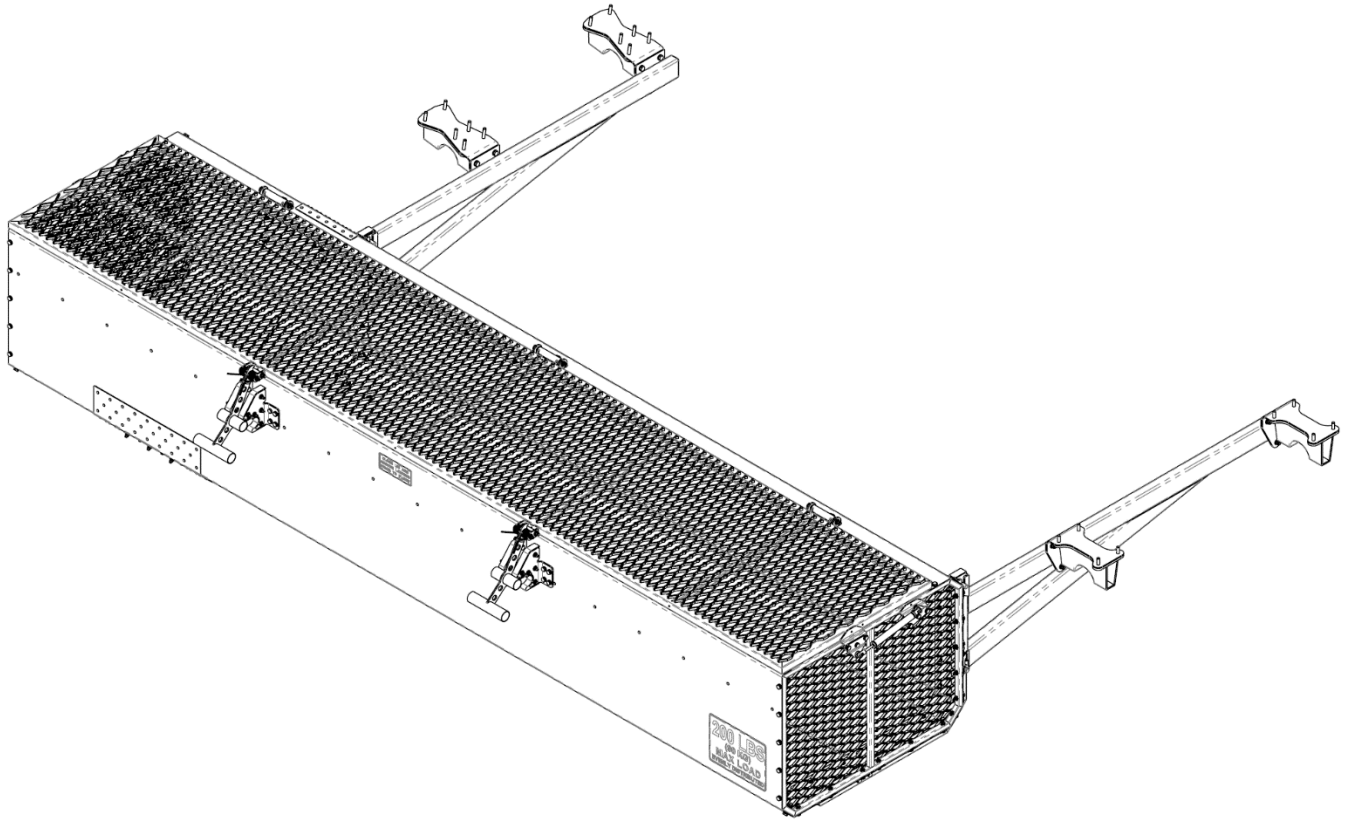




BELL 407 UTILITY BASKET, KIT INSTALLATION INSTRUCTIONS

MODELS: BELL 407

Read all of the Installation Instructions
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

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 2 **Installation & Removal 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.

<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 in accordance with (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).
4. Refer to ICA Section 3: Maintenance Manual Supplement for instructions on maintenance for the item(s) referenced within this section.
5. Refer to ICA Section 6: Illustrated Parts Breakdown for the part numbers of the item(s) referenced within this section.
6. The Sealant, Corrosion Inhibitive, P/S 870 Class A (Item 110), is not included with the kit. Procure locally.

Installation Notes

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

Installation Instructions

1. Gain access to the aircraft and make the aircraft safe and ready for maintenance.
2. Remove the LH & RH fitting, fuselage, FWD, landing gear by removing 8X Bolt (NAS6604-7) and 8X Washer (140-007-16A17B4). Then remove the LH & RH fitting, fuselage, AFT, landing gear by removing 4X Bolt (NAS6604-13), 8X Bolt (NAS6604-15), and 12X Washer, Flat (NAS1149D0463J).

NOTE 1: Do not discard the OEM washers and bolts, as they are necessary for the installation and removal of the BELL 407 Utility Basket, Kit.

NOTE 2: Clean old sealant from the faying surfaces of the fittings and fuselage.

3. Apply Sealant, Corrosion Inhibitive, (Item 110), to the faying surfaces of the fittings and FWD and AFT Attachment Brackets (Items 107 & 108) per MIL-PRF-81733. Reference Figure 1.

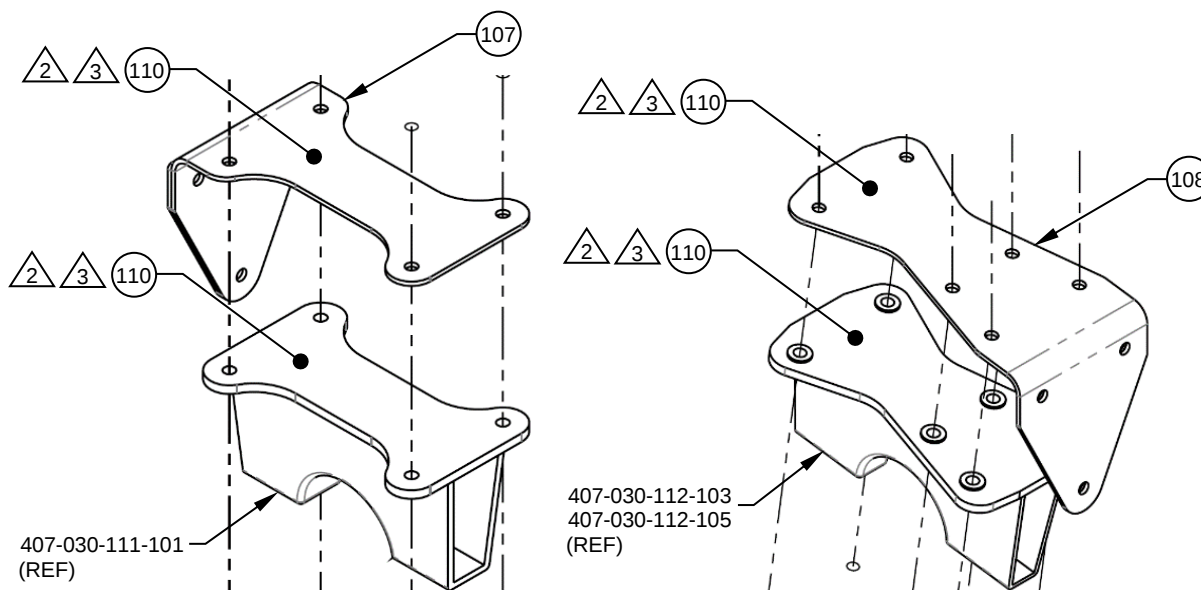


Figure 1

Apply sealant to the FWD and AFT Attachment Brackets, (Items 107 & 108), and fittings. Some items removed for clarity.

Installation Instructions (cont.)

4. Locate 2X FWD Attachment Bracket (Item 107) between the fittings and fuselage, as shown in Figure 2. Use the provided 8X Bolt, Machine (Item 117) from the BELL 407 Utility Basket, Kit, along with 8X Washer (140-007-16A17B4) removed in Step 2, in the order shown in Figure 2, to install the fittings and brackets to the fuselage.

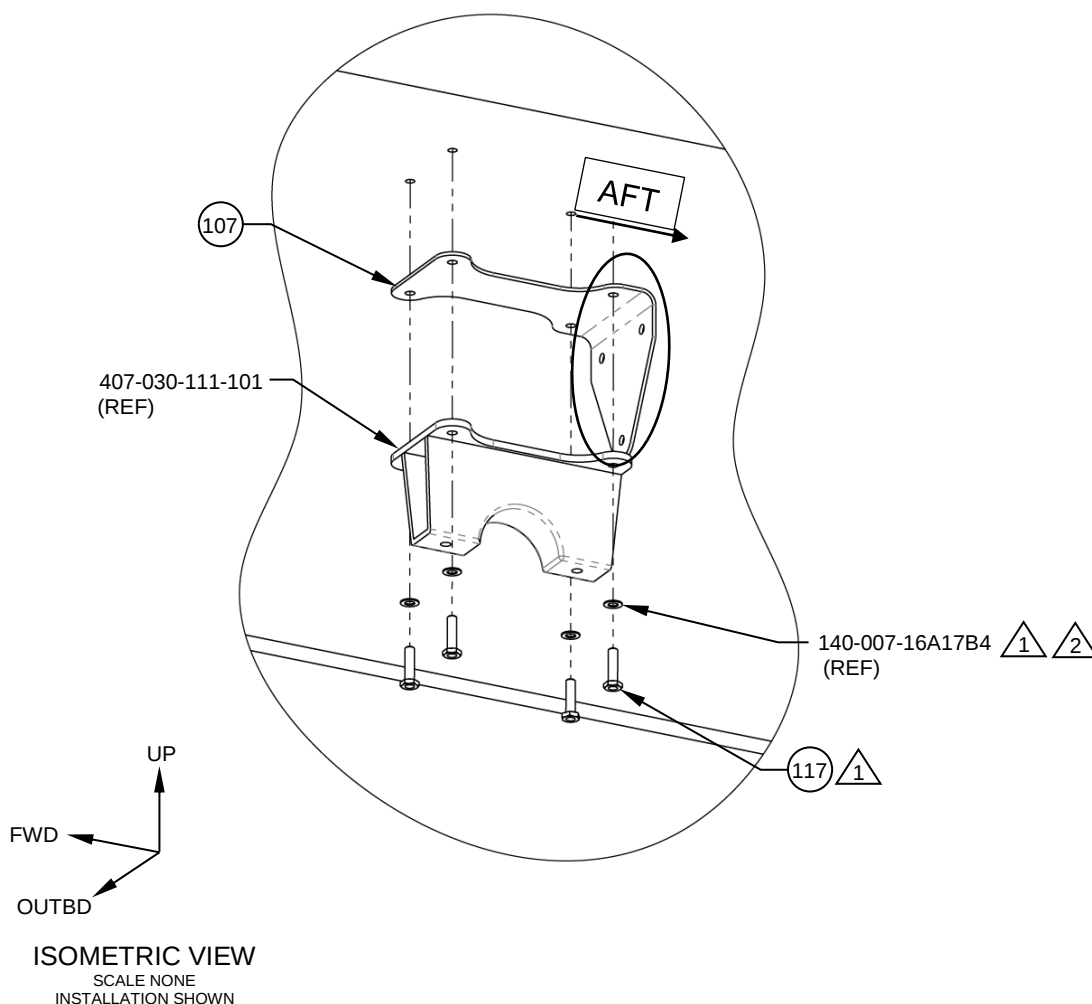


Figure 2

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

Installation Instructions (cont.)

5. Locate 2X AFT Attachment Bracket (Item 108) between the fittings and fuselage as shown in Figure 3. Use the provided 4X Bolt, Machine (Item 118), 8X Bolt, Machine (Item 119), and 12X Washer, Flat (Item 114) from the BELL 407 Utility Basket, Kit, in the order shown in Figure 3 to install the fittings and brackets to the fuselage.

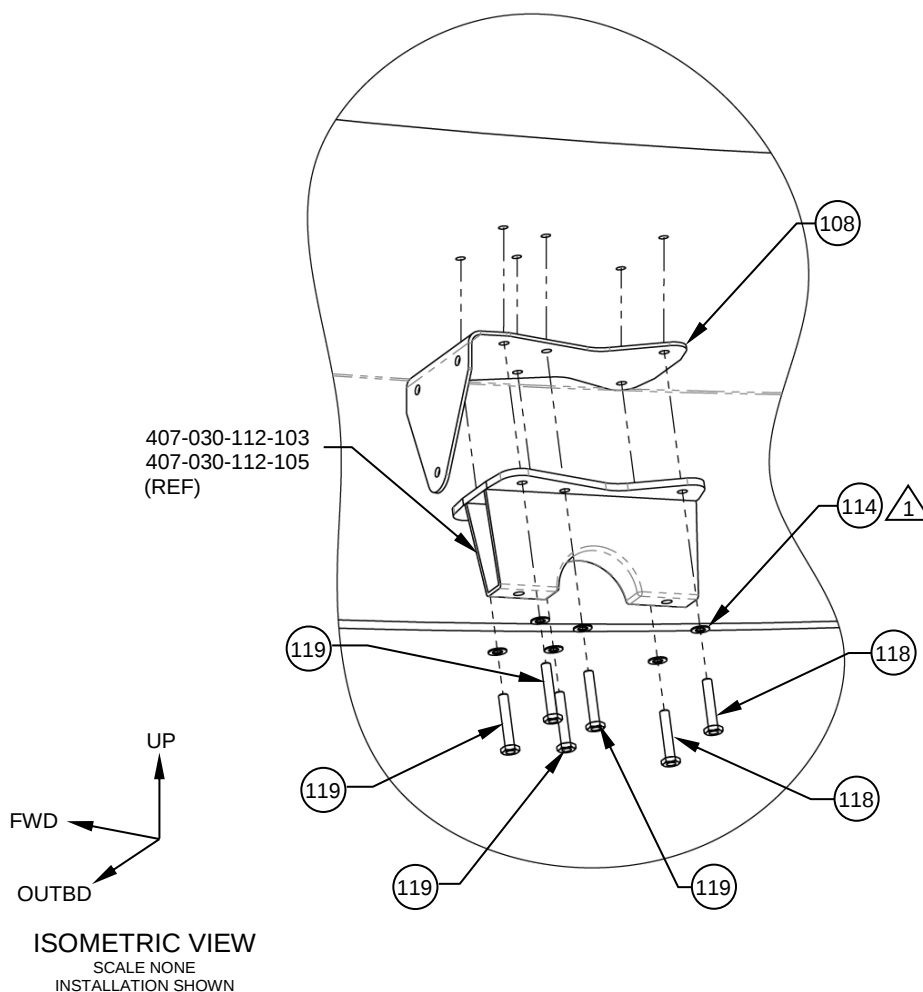


Figure 3

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

Installation Instructions (cont.)

6. Install the FWD Attachment Arm Assy, (Item 105) to the 2X FWD Attachment Bracket, (Item 107), using the provided 6x Bolt, Machine, (Item 115), 6x Nut, Self-Locking, (Item 116), and 12x Washer, Flat, (Item 114), as shown in Figure 3.

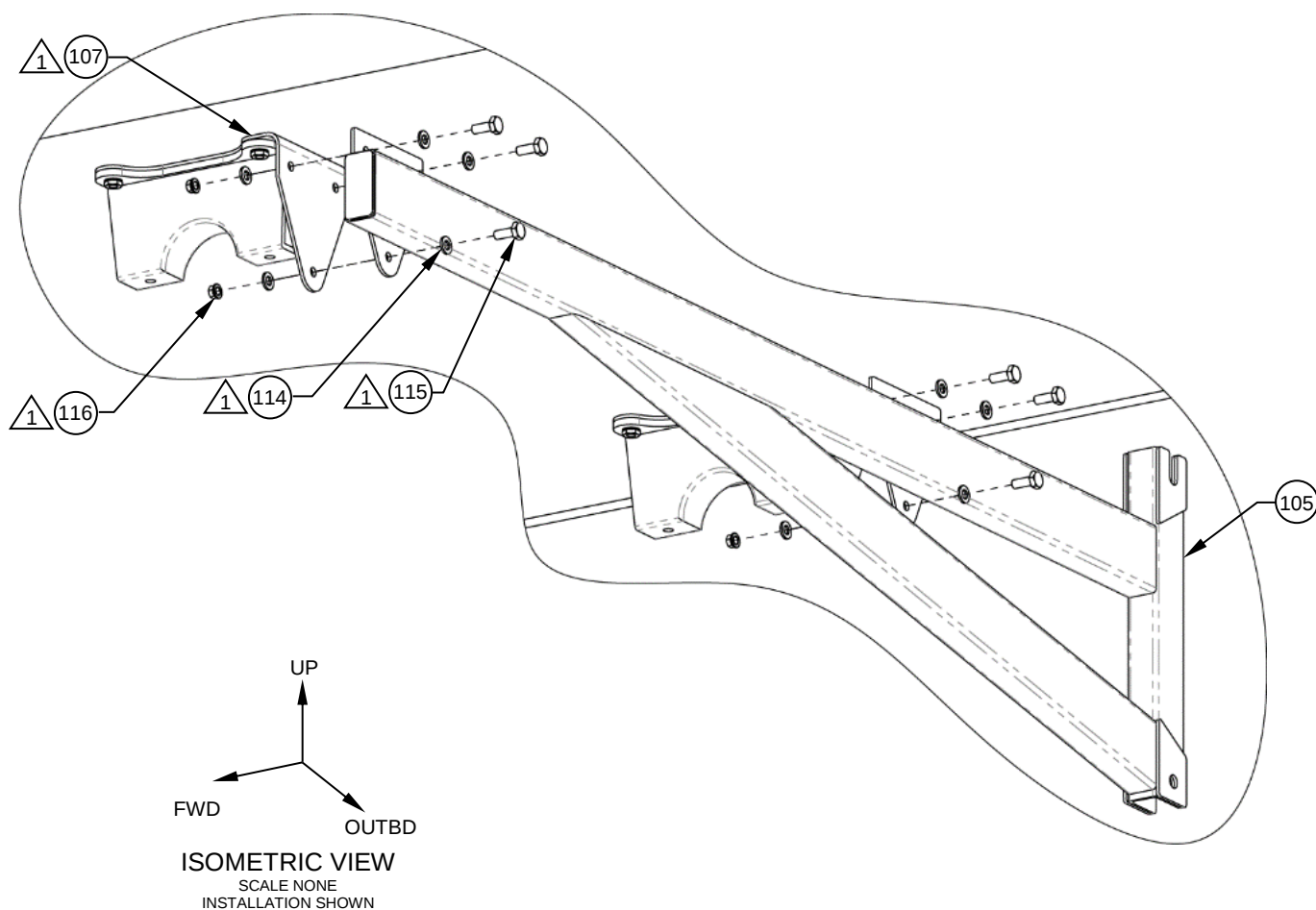


Figure 3
FWD Attachment Arm Assy, (Item 105), installation procedure.
Some items removed for clarity.

Installation Instructions (cont.)

7. Install the AFT Attachment Arm Assy, (Item 106) to the 2X AFT Attachment Bracket, (Item 108), using the provided 6x Bolt, Machine, (Item 115), 6x Nut, Self-Locking, (Item 116), and 12x Washer, Flat, (Item 114), as shown in Figure 4.

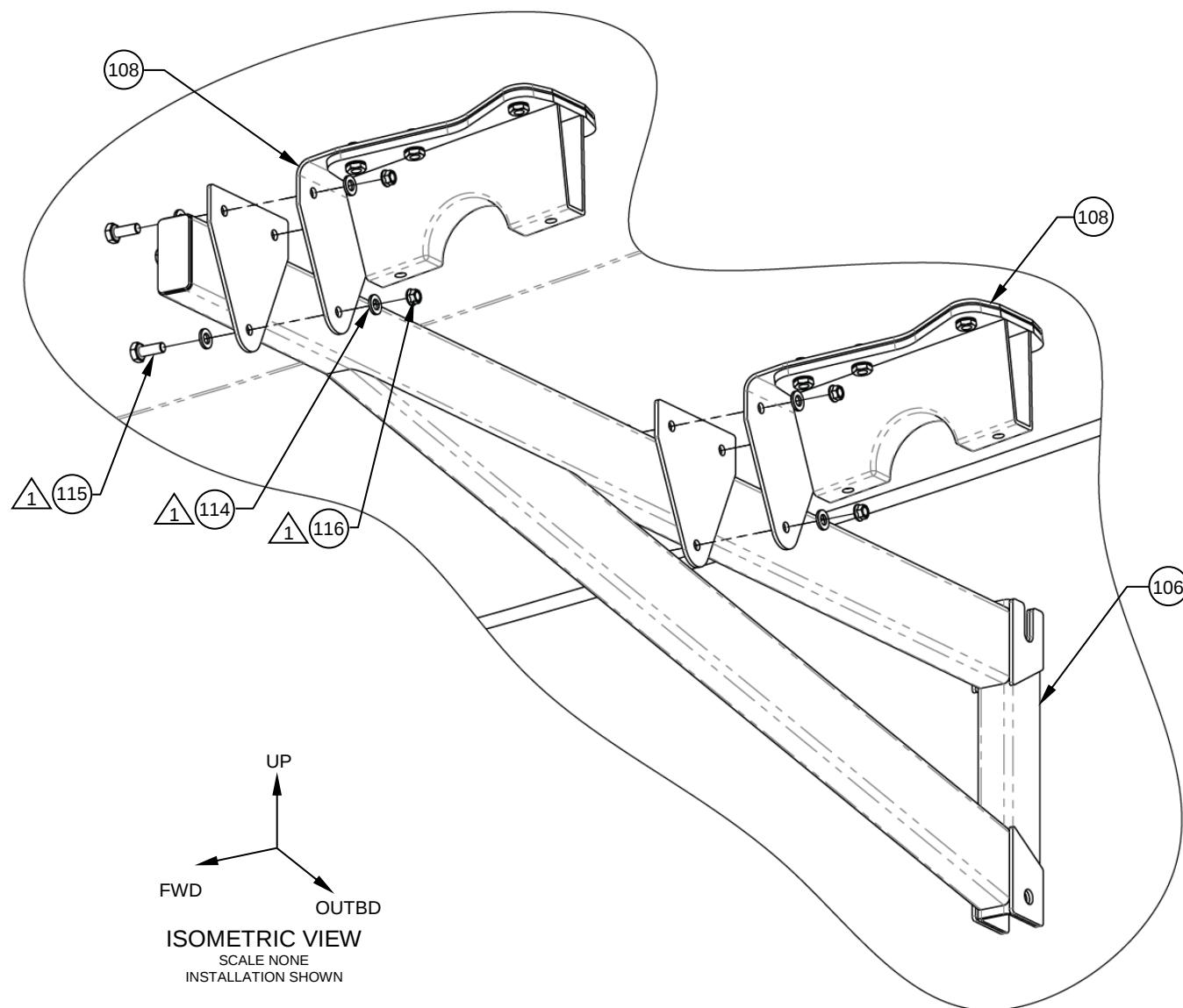


Figure 4

AFT Attachment Arm Assy, (Item 106), installation procedure.
Some items removed for clarity.

Installation Instructions (cont.)

8. To install the Utility Basket, Assy, (Item 1) onto the FWD & AFT Attachment Arm, Assys, (Items 105 & 106), place the pins on the FWD & AFT Support, Assys, (Items 43 & 44), into the designated slots on the FWD and AFT Attachment Arms, as shown in Figure 5. The basket will rotate around the pins and settle into position.

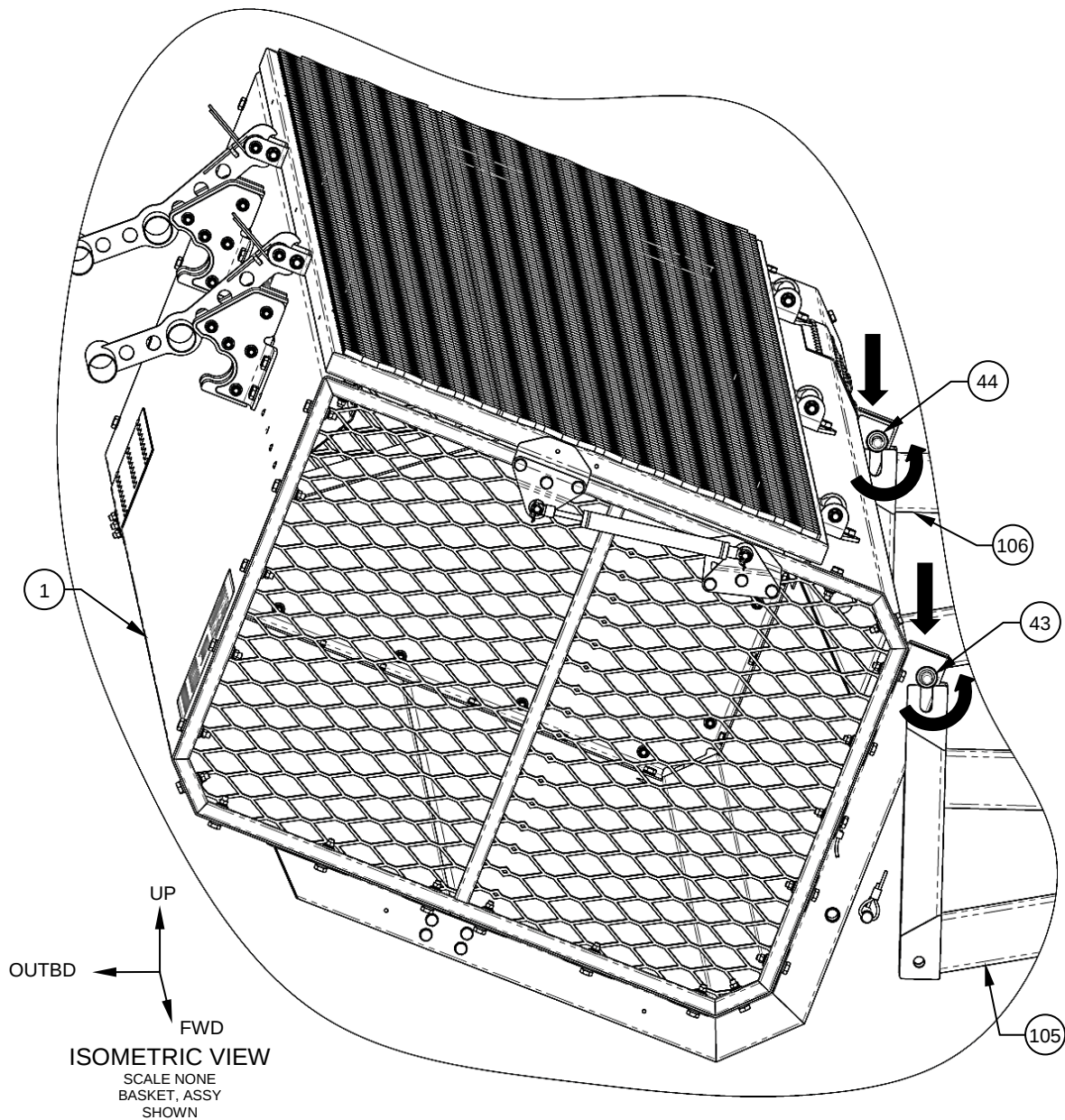


Figure 5
Utility Basket, Assy, (Item 1) installation procedure.
Some items removed for clarity.

Installation Instructions (cont.)

9. Install 2X Clamping Toggle-Lock Clevis Pin, (Item 46), in their locations to secure the basket. Reference Figures 6 & 7.

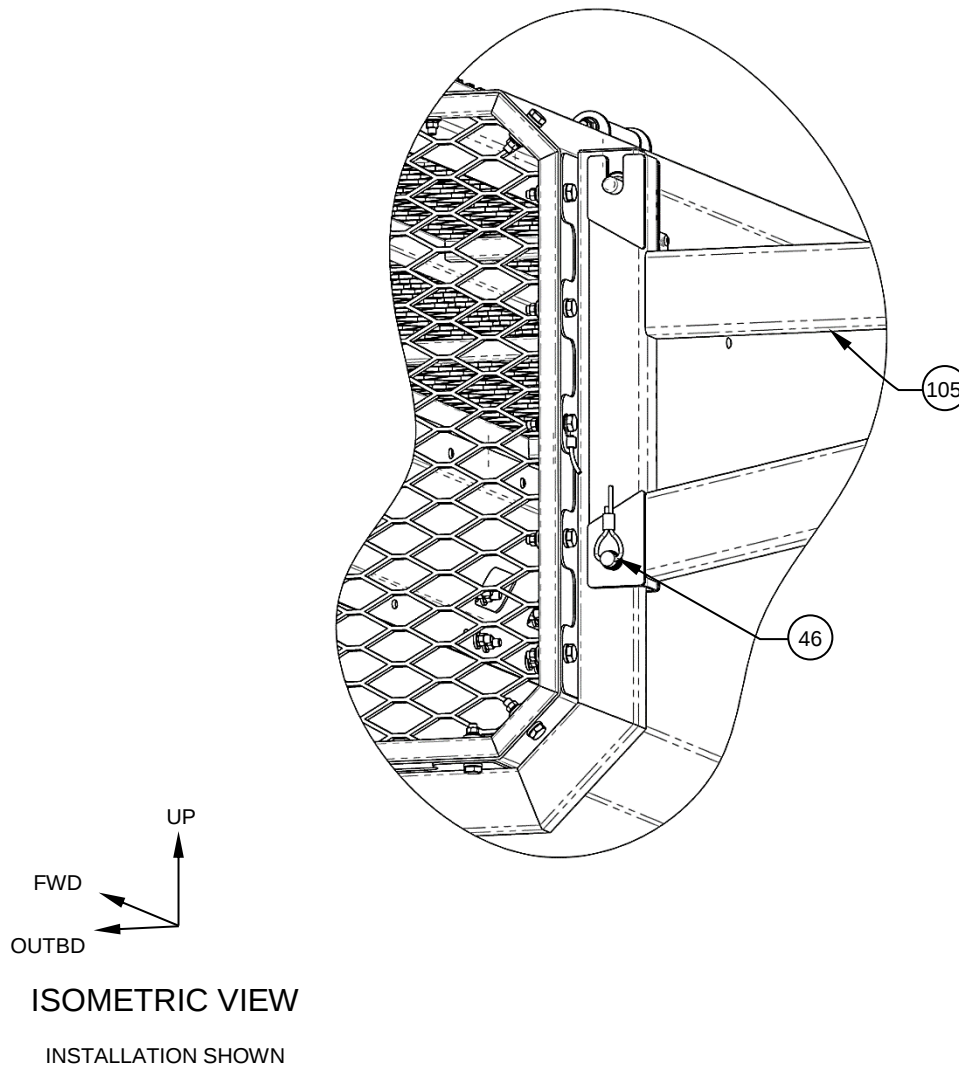


Figure 6
Clamping Toggle-Lock Clevis Pin, (Item 46), located in the
FWD Attachment Arm, Assy, (Item 105).

Installation Instructions (cont.)

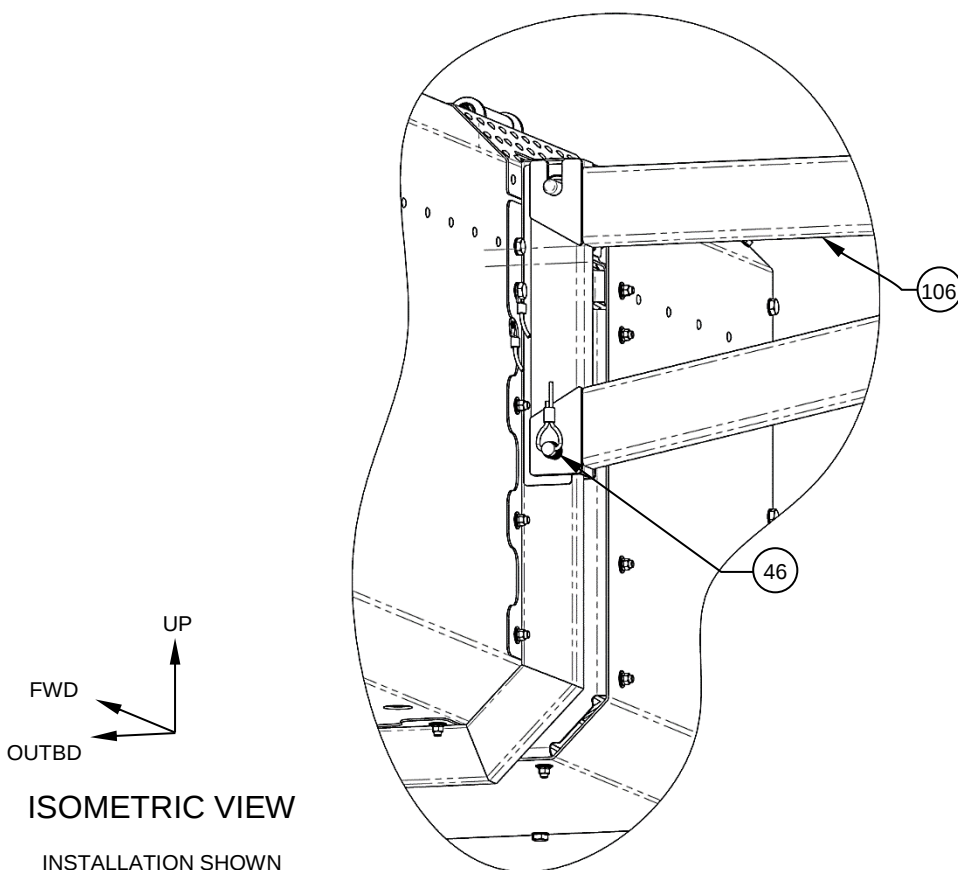


Figure 7

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

10. Install Decal, Detail (Item 111) on the instrument panel in the clear view of the pilot.



Decal, Detail (Item 111)
Shown

Installation Instructions (cont.)

11. Install Decal, Detail (Item 113) in the clear view of the pilot and passengers in both FWD and AFT cabins.



Decal, Detail (Item 113)
Shown

12. Installation complete. Perform a general inspection of all items to ensure proper installation.
13. Update the aircraft logbook for the installation of the BELL 407 Utility Basket, Kit.

Removal Instructions

1. Since no special considerations or additional steps are required for the permanent removal of the BELL 407 Utility Basket, Kit, the removal process can be considered the opposite of the installation.
2. Perform a General Inspection of all items to ensure proper removal.
3. Update the aircraft logbook for the removal of the BELL 407 Utility Basket, Kit.