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TECHNICAL INSTRUCTION TI HAC14-002

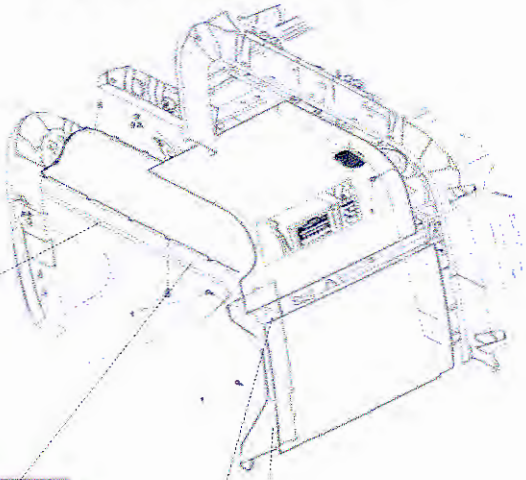
TECHNICAL INSTRUCTION
HAC14-002, REVISION 0
March 4, 2015
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

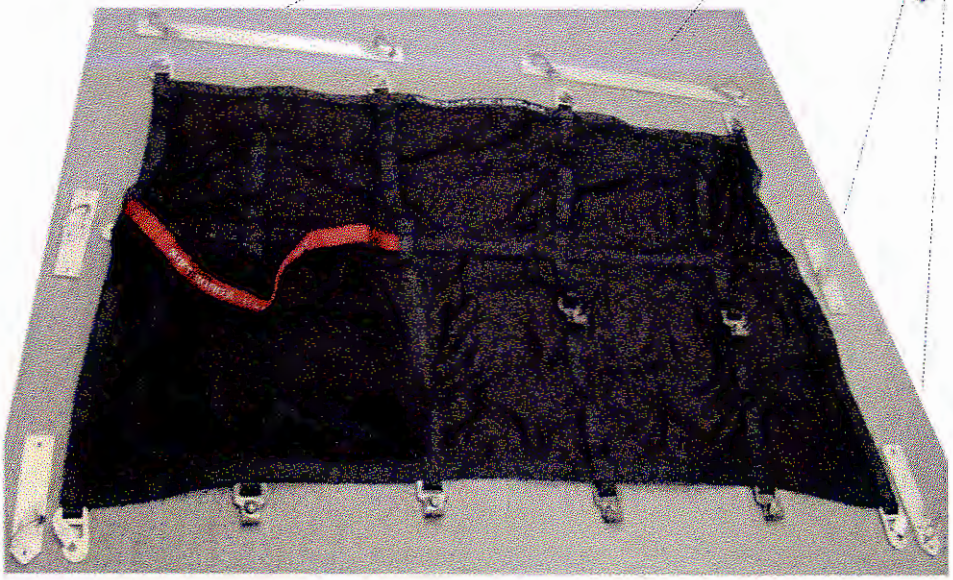
PART NUMBER: 429-002-901DEC
ARTICLE NOMENCLATURE: BARRIER NET ASSEMBLY KIT

INSTALLED ON

BELL HELICOPTER TEXTRON CANADA LIMITED MODEL 429

F.A.A.
ACCEPTED
ATLANTA AIRCRAFT CERTIFICATION
OFFICE CENTARL REGION
By: ACE-120A
Date: 12JUN15





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TECHNICAL INSTRUCTION TI HAC14-002

RECORD OF REVISIONS

REVISION	ECN	DESCRIPTION	DATE	BY
0	None	Initial Release	March 4, 2015	K. Mosley

TABLE OF CONTENTS

The DEC Technologies, Inc. part number 429-002-901DEC Barrier Net Assembly Kit is a customer requested option for the Baggage Compartment on the Bell Helicopter Textron Canada Limited Model 429.

1.0 INTRODUCTION

This document provides instructions for removal and installation of the Net Assembly. It includes inspection methods and criteria to ensure the Hinge continues to be airworthy.

2.0 DESCRIPTION

The Barrier Net Assembly Kit existing interior liner fastening points to create fixed anchor locations for the net through attachable bracket assemblies. The net functions to achieve containment of baggage compartment articles and elimination of article migration into the rear access panel / loading door area.

3.0 OPERATION

The Kit includes six (6) brackets. There are 2 each on the left and right hand sides with a one (1) anchor point each and two (2) at the top with two (2) anchor points each for a total of eight (8) fixed anchor points. There are four (4) existing fixed pivoting anchor on the floor. This provides a total of twelve (12) fixed anchor points. The Barrier Net is fully installed and ready for service when its eight (8) side and top carabiner hooks and four (4) bottom ring clips are firmly secured with the locking features activated.

4.0 TROUBLESHOOTING INFORMATION

TROUBLESHOOTING		
Problem	Probable Cause	Remedy
One or more hooks unattached.	Hook retaining feature inoperable, incompletely fastened or omitted.	Replace net or properly attach hooks(s).
One or more fasteners loose or missing.	Incomplete initial installation.	Tighten or properly install fasteners.
Net pocket mesh ripped.	Pocket overloaded with sharp-edged or pointed object.	Replace net.
Net mesh failure.	Excessive cargo load ineffectively secured becoming dislodged in flight.	Replace net.

5.0 CONSUMABLE MATERIALS

This article does not use consumable materials. All sub-components and hardware that meet the required inspection criteria are considered to be re-usable.

6.0 REMOVAL PROCEDURE FOR THE BARRIER NET ASSEMBLY

6.1 Uninstall the Barrier Net by unclipping the net in the eight locations shown in section 7.10 on page 10.

6.2 Uninstall the brackets shown in section 7.10 by removing the 2 attachment screws for each of the side brackets and 3 attachment screws for each of the top brackets.

7.0 INSTALLATION PROCEDURE FOR THE BARRIER NET ASSEMBLY

EXCHANGE OF SPECIFIC LINER RETAINING SCREWS

(All References from center of baggage area looking AFT)

7.1 The installation will start at the lower right and proceed in a counterclockwise fashion.

7.2 The six (6) bracket assemblies have part markings stating location and part number. The part marking will always go against the liner and towards the top for side brackets and towards the side for top brackets.

7.3 The finished installation bracket orientations, part markings and installation location references are shown below for an overall preview. The installer should familiarize him / herself with these prior to starting work. Note locations **'A'** through **'P'** shown in Figure 7.3.1 below.

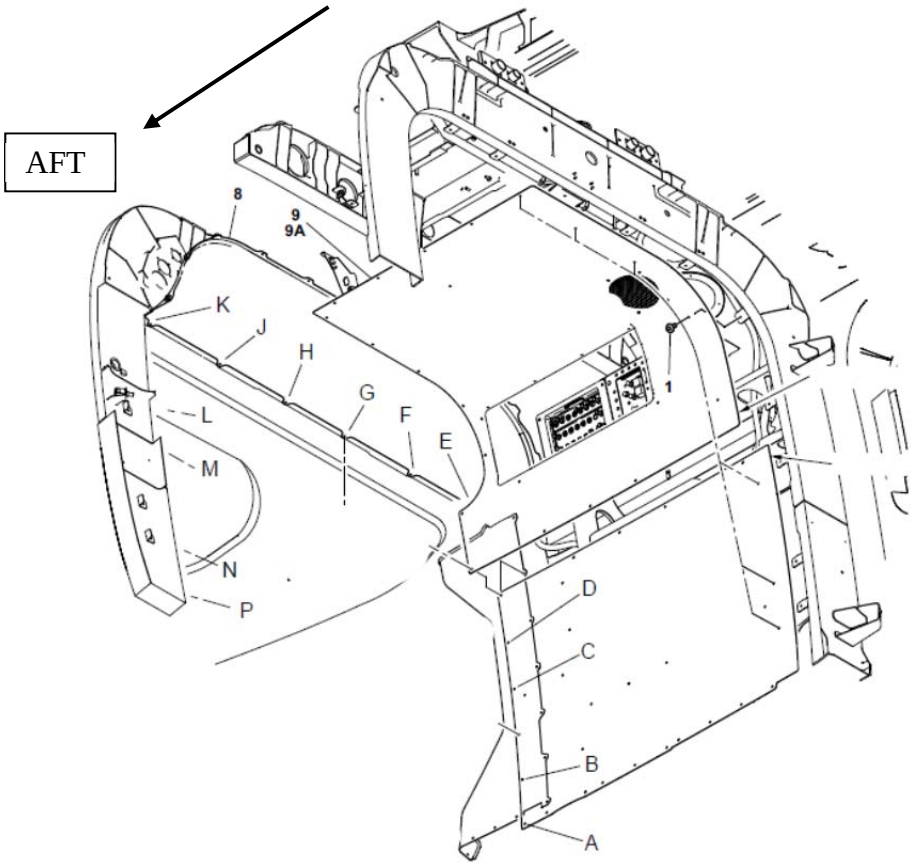


Figure 7.3.1

7.4 Start with the lower right hand **(L RH)** bracket assembly. Install the liner screw at location **'B'** through the top slot of the bracket until it is hand tight and will assist in holding the bracket out of the way while the second screw at location **'A'** is installed. Torque all screws to 18-22 in-lbs each. See Figure 7.4.1.

7.5 Continue with the upper right hand **(U RH)** bracket assembly. Install the liner screw at location **'D'** through the top slot of the bracket until it is hand tight and will assist in holding the bracket out of the way while the second screw at location **'C'** is installed. Torque all screws to 18-22 in-lbs each. See Figure 7.5.1.

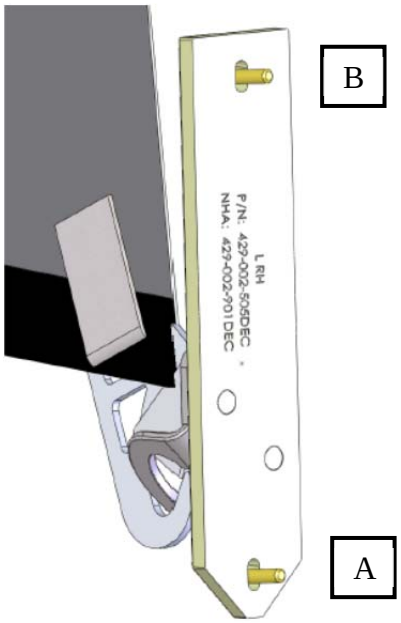


Figure 7.4.1
LOWER RIGHT HAND (L RH)

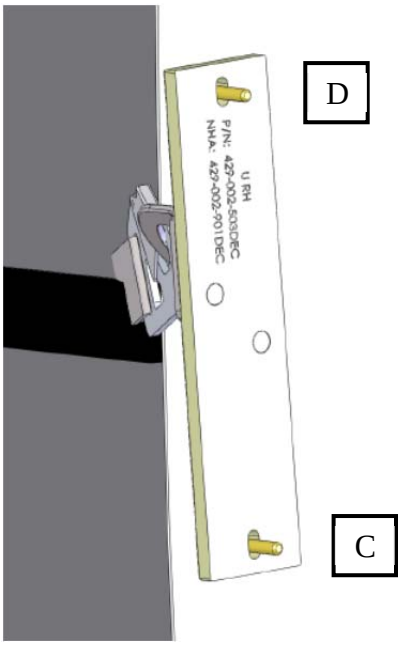


Figure 7.5.1
UPPER RIGHT HAND (U RH)

7.6 Continue with the top right hand **(TOP)** bracket assembly. Install the liner screw at location **'G'** through the top slot of the bracket until it is hand tight and will assist in holding the bracket out of the way while the second and third screws at locations **'E'** and **'F'** are installed. Torque all screws to 18-22 in-lbs each. See Figure 7.6.1.

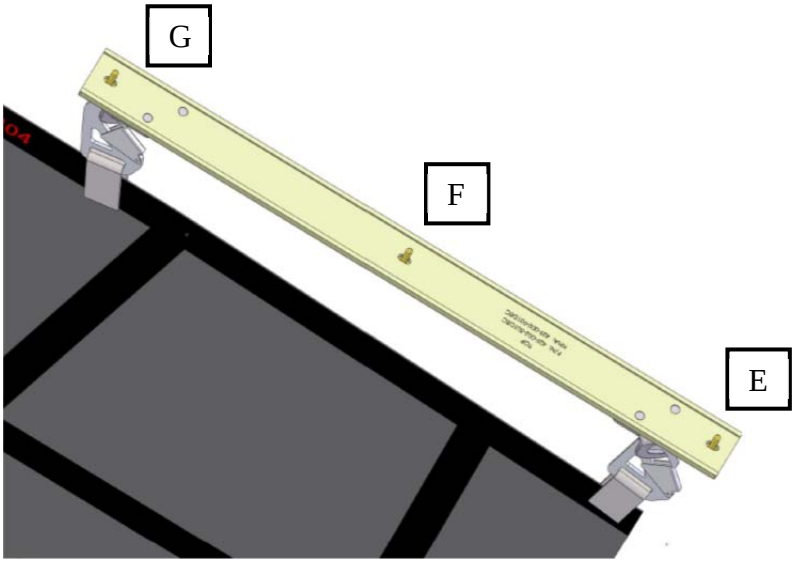


Figure 7.6.1
TOP RIGHT (TOP)

7.7 Continue with the top left hand **(TOP)** bracket assembly. Install the liner screw at location **'H'** through the top slot of the bracket until it is hand tight and will assist in holding the bracket out of the way while the second and third screws at locations **'J'** and **'K'** are installed. Torque all screws to 18-22 in-lbs each. See Figure 7.7.1.

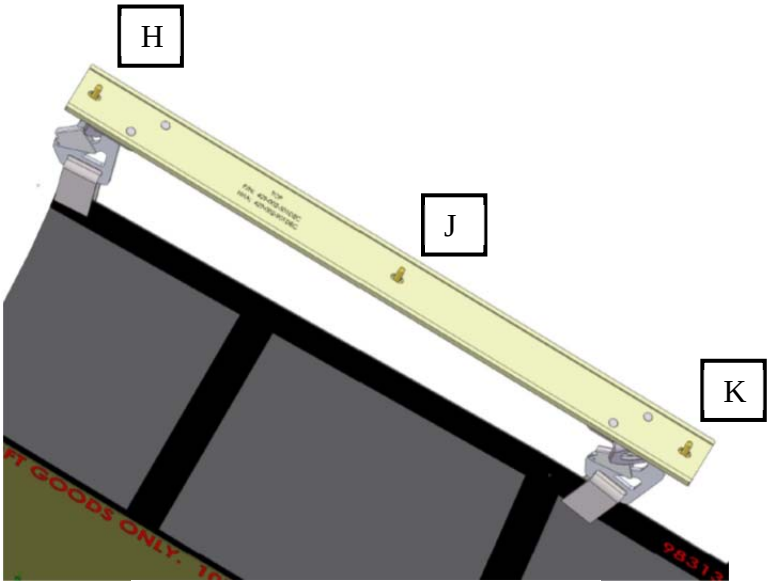


Figure 7.7.1
TOP LEFT (TOP)

7.8 Continue with the upper left hand **(U LH)** bracket assembly. Install the liner screw at location **'L'** through the top slot of the bracket until it is hand tight and will assist in holding the bracket out of the way while the second screw at location **'M'** is installed. Torque all screws to 18-22 in-lbs each. See Figure 7.8.1.

7.9 Continue with the lower left hand **(L LH)** bracket assembly. Install the liner screw at location **'N'** through the top slot of the bracket until it is hand tight and will assist in holding the bracket out of the way while the second screw at location **'P'** is installed. Torque all screws to 18-22 in-lbs each. See Figure 7.9.1.

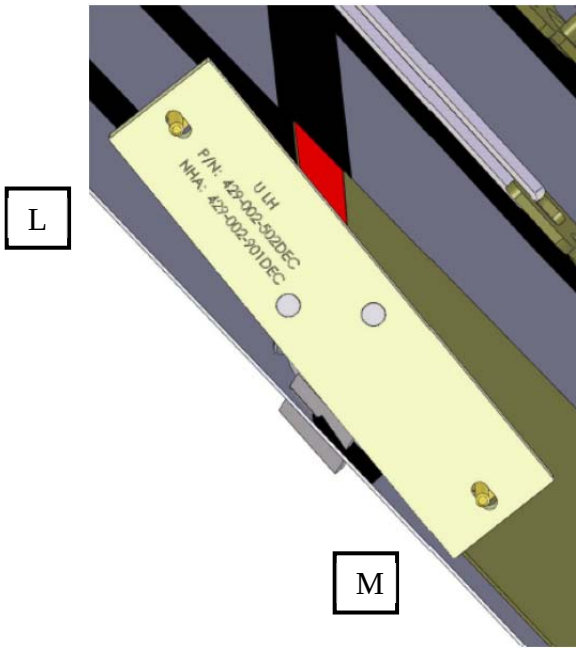


Figure 7.8.1
UPPER LEFT HAND (U LH)

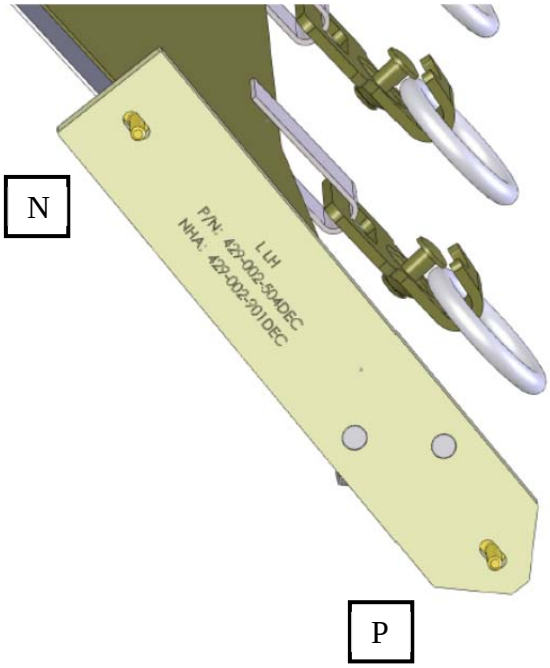
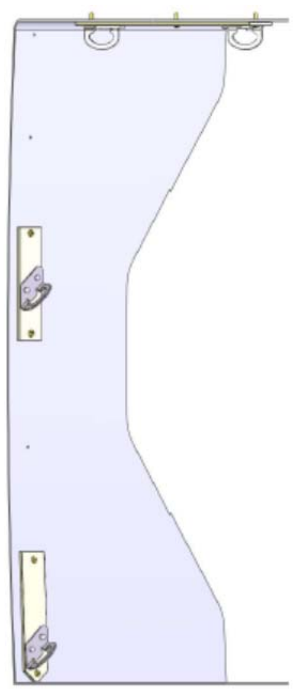
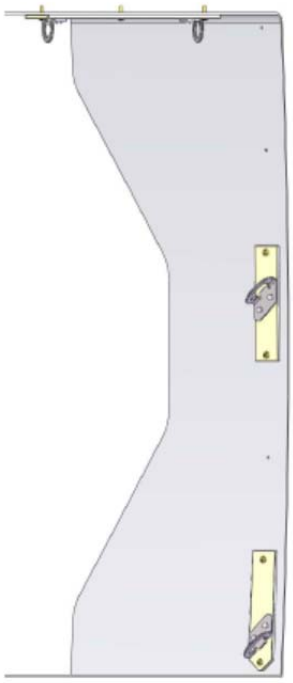


Figure 7.9.1
LOWER LEFT HAND (L LH)

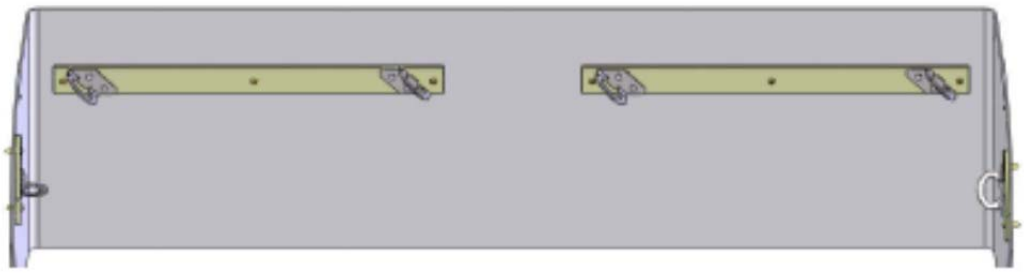
7.10 Starting with the lower right hand (L RH) position, inspect all installed assemblies for the proper bracket orientation and screw torque on all fasteners. See Figure 7.10.1.



LEFT SIDE



RIGHT SIDE



TOP

Figure 7.10.1
FINISHED ASSEMBLY ORIENTATION REFERENCES

8.0 PART IDENTIFICATION – P/N 429-002-901DEC BARRIER NET ASSEMBLY

P/N 429-002-901DEC
Parts List

1) P/N 429-002-501DEC, Top Bracket Assembly (1)
2) P/N 429-002-502DEC, Upper LH Bracket Assembly (2)
3) P/N 429-002-503DEC, Upper RH Bracket Assembly (3)
4) P/N 429-002-504DEC, Lower LH Bracket Assembly (4)
5) P/N 429-002-505DEC, Lower RH Bracket Assembly (5)
6) P/N 429-002-028DEC, Screw (6)
7) P/N 429-002-029DEC, Barrier Net Assembly (7)

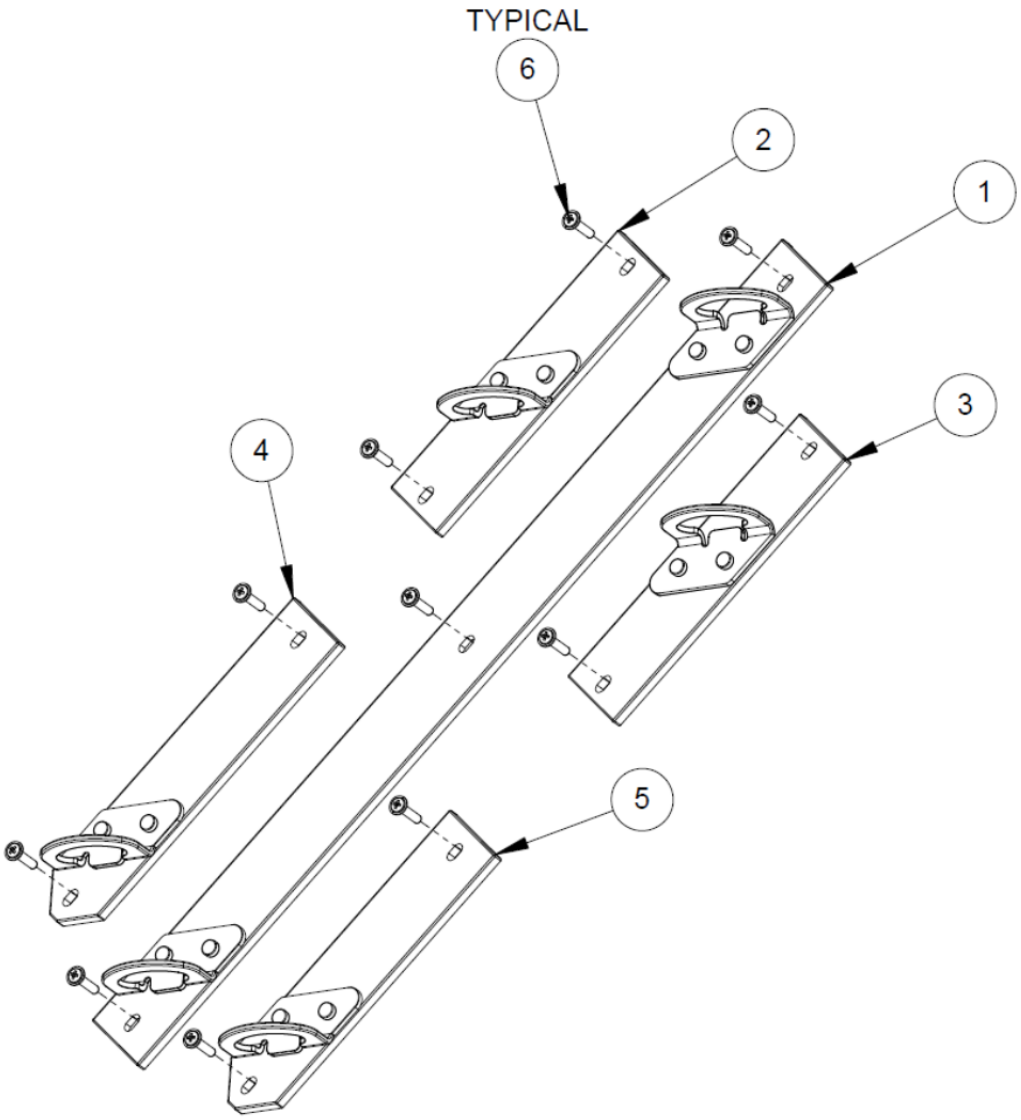


Figure 8.0.1
BRACKET ASSEMBLIES AND ATTACHING SCREWS

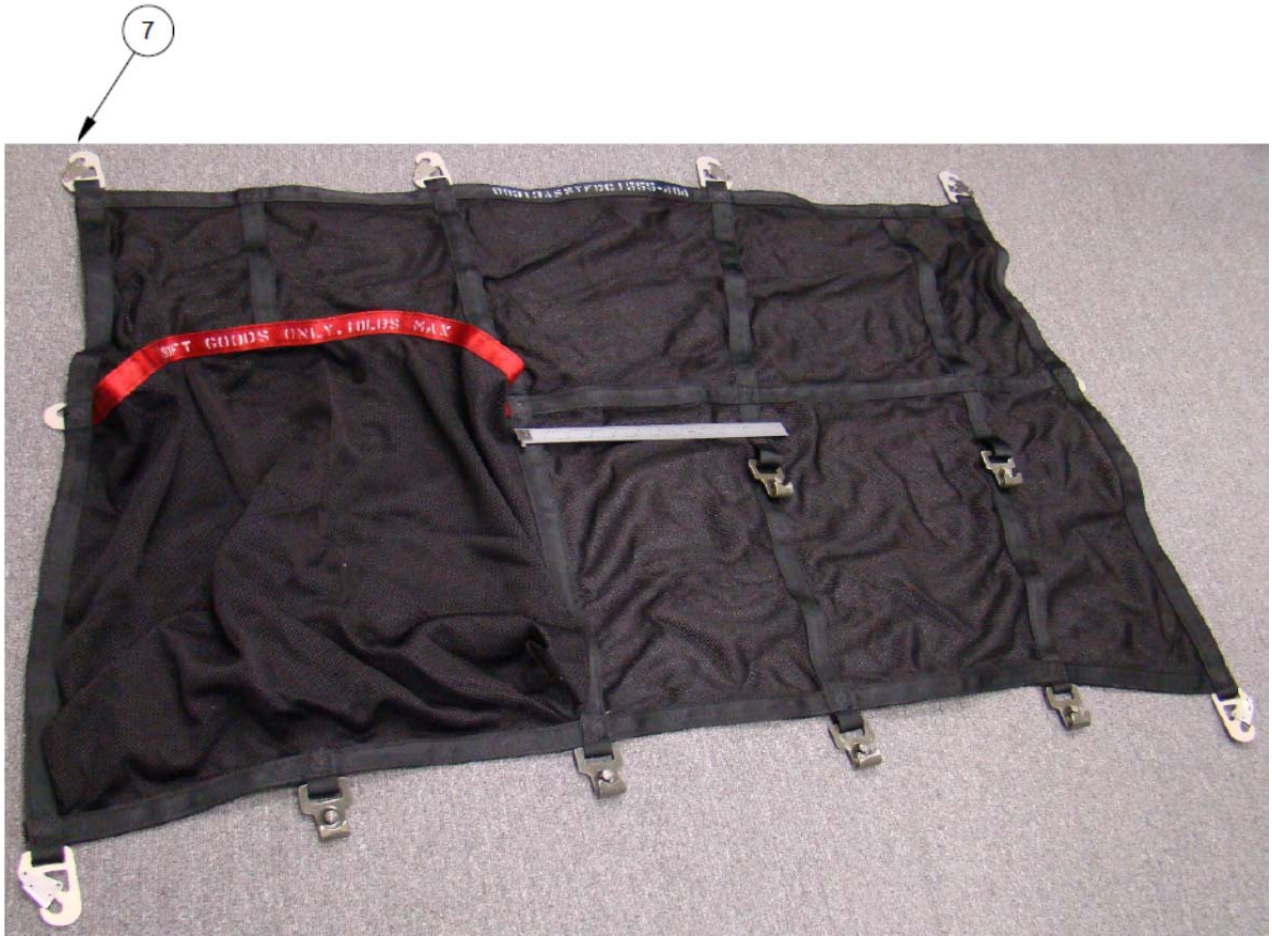


Figure 8.0.2
BARRIER NET ASSEMBLY

9.0 INSPECTION CRITERIA FOR CONTINUED AIRWORTHINESS

Table 9.1

Inspection Criteria for Continued Airworthiness

Item Number (Figs. 8.0.1 & 8.0.2)	Characteristic	Inspection Method	Limit
All	Mechanical Damage	Visual	None permitted Replace Component or Assembly
All	Corrosion Damage	Visual	None permitted Replace Component or Assembly

10.0 AIRWORTHINESS LIMITATIONS

The Airworthiness Limitations section is FAA approved and specifies inspections and other maintenance required under Sections 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

There are no life limitations for this Barrier Net Assembly. Normal wear and tear of the Barrier Net per individual application may designate replacement if deterioration of any component or base material becomes apparent.

11.0 WEIGHT AND BALANCE

Description of Installation	Weight	Station	Lateral Arm
Barrier Net Assembly P/N 429-002-901DEC	8 LBS (3.628 Kg)	286.0 in (7264 mm)	0 in (0 mm)

12.0 INFORMATION ACCESS AND DISTRIBUTION

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