INSTALLATION INSTRUCTIONS

Tension Hoop

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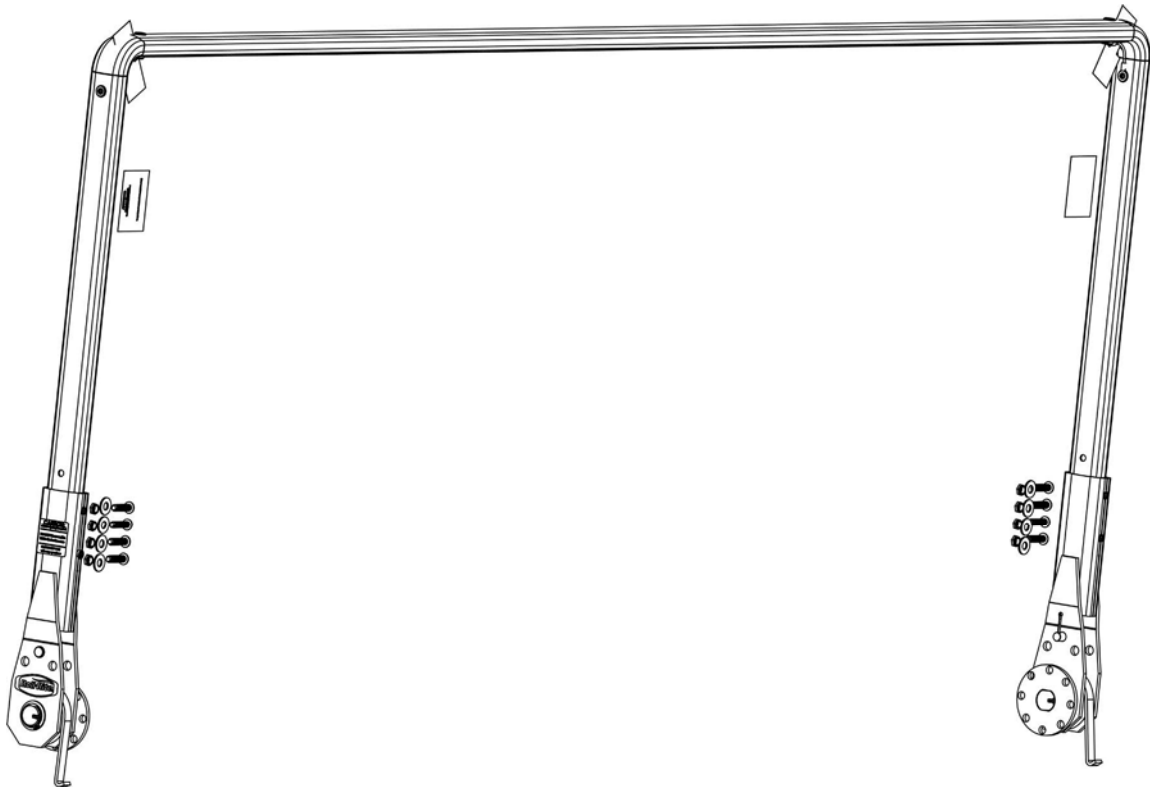


ATTENTION **DURING INSTALLATION, SOME FABRICATION MAY BE REQUIRED.**

Document #: P/# 109011
Revised: 01/20/25 WLH

Table of Contents

Tools & Parts

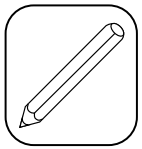
System Installation

TOOLS & PARTS

650 Industrial Drive, Gladwin, MI 48624 • For technical support call us at (800) 297-9905 or visit at RollRite.com.

Recommended Tools & Installation Notes


Safety Glasses and Gloves


Pencil or Marker

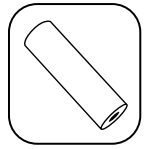

Cut Off Saw or Hacksaw


9/16" Wrench


1/4" Allen Wrench


Tape Measure


Rubber Mallet


3/4" Socket


3/8" & 25/64" Drill Bits


Torque Wrench


T30 Torx Bit

Components Included: (3) Assemblies will be included in the Tension Hoop Kit as well as all mounting and installation hardware: Pivot Sets, Base Arm, and back bow set.

The Tension Hoop system will need to be cut to length based on your available mounting location as well as current tarp system width. The tension hoop will be mounted to ensure that the current tarping system arms move the full opening and closing cycle freely. The tension hoop will be installed inside the width of the current tarp system to tension the tarp during operation and transportation.

Pivot Installation: The Pivots for the tension hoop system are handed so orientation of the springs for force transfer will be important.

(NOTE: Some cab shield configurations will require an additional mounting bracket to be fabricated and supplied at the time of install which are not included in the base kit)

Position the pivots on the cab shield or custom fabricated brackets so that the pivots are inside of the main tarp system tarping arms. Using the pivot as a template mark (4) holes 90° (degrees) apart and drill with a 25/64" drill bit. The pivots have additional mounting holes to be able to clock the pivot into the proper position for desired tarp tension.

Recommended Tools & Installation Notes (Continued)

Secure the pivot to mounting location with provided hardware, (4) 3/8”x 16 bolts, nuts and washers. Torque to 23-31 ft lbs.

The base arms for the system are predrilled to allow attachment of the aluminum corners and bow tube. This arm may have to be cut to length based on the pivot mounting location. The arm allows adjustment but may need to be shortened to get the desired landing point of the hoop.

Once the pivots are installed and secured, place the arm into the pivot and adjust the length to allow the bow tube to sit just below the tarp axle on the housing with the system when fully open. The tension hoop bow tube will be resting on the tarp when installed and in front of the tarp back bow. Secure the base arms to the pivots after proper length adjustment with the (2) provided set screws per pivot. A ¼” Allen Wrench will be required to torque the set screws and secure the base arms to the pivots.

The bow tube for the tension hoop is also predrilled for installation. Some cab shield configurations will require you to cut the bow tube to length and drill (1) hole for the aluminum 90° corners.

Measure the distance between pivots, and the width of the tarp. Cut the bow tube to length using this measurement. Using the corner as a template, mark the hole location and drill a new 3/8” hole for attachment of the aluminum corner to the bow tube.

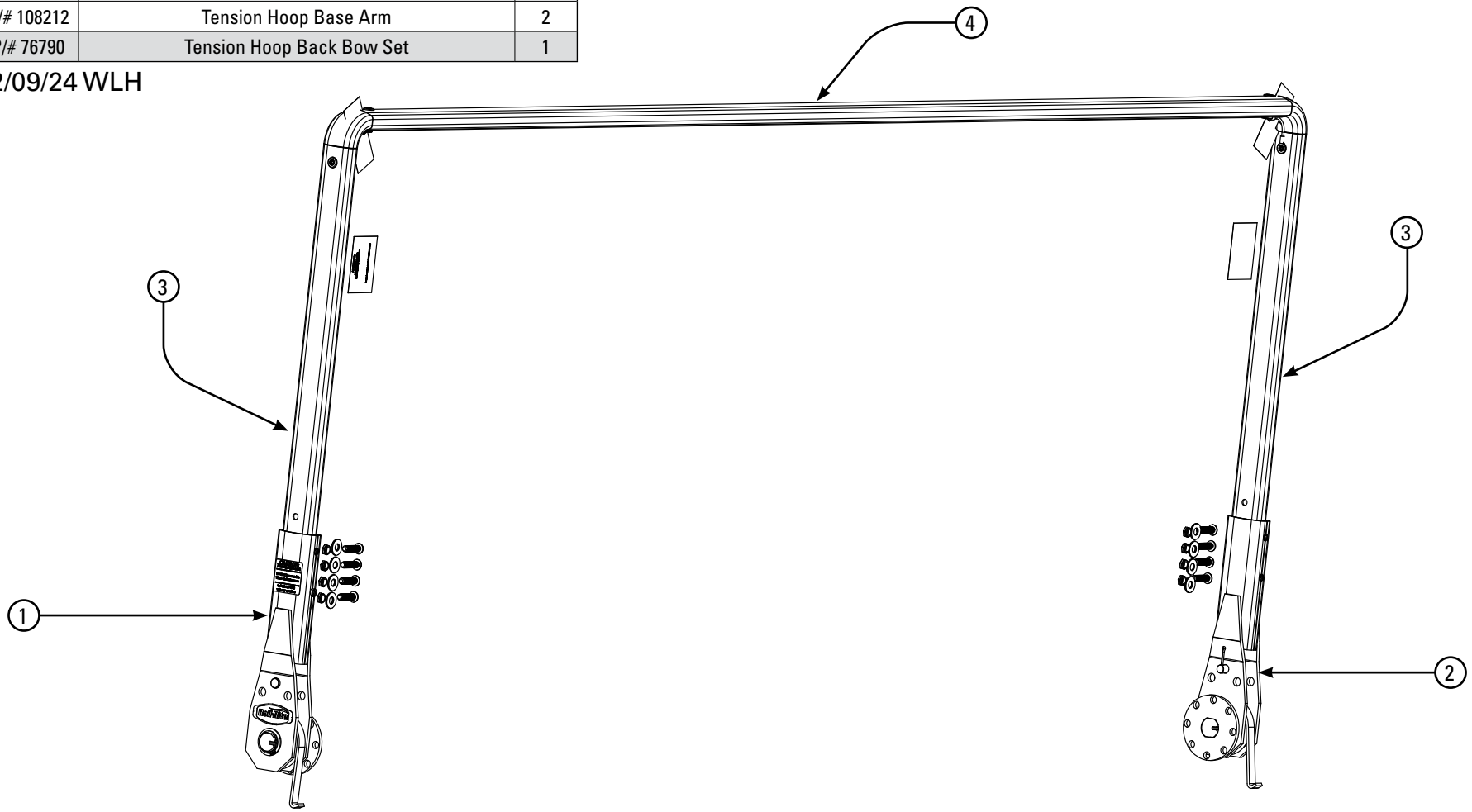
Install the aluminum corners in the bow tube and base arm as well as the tethers on the inside of the arm with barrel bolts as shown.

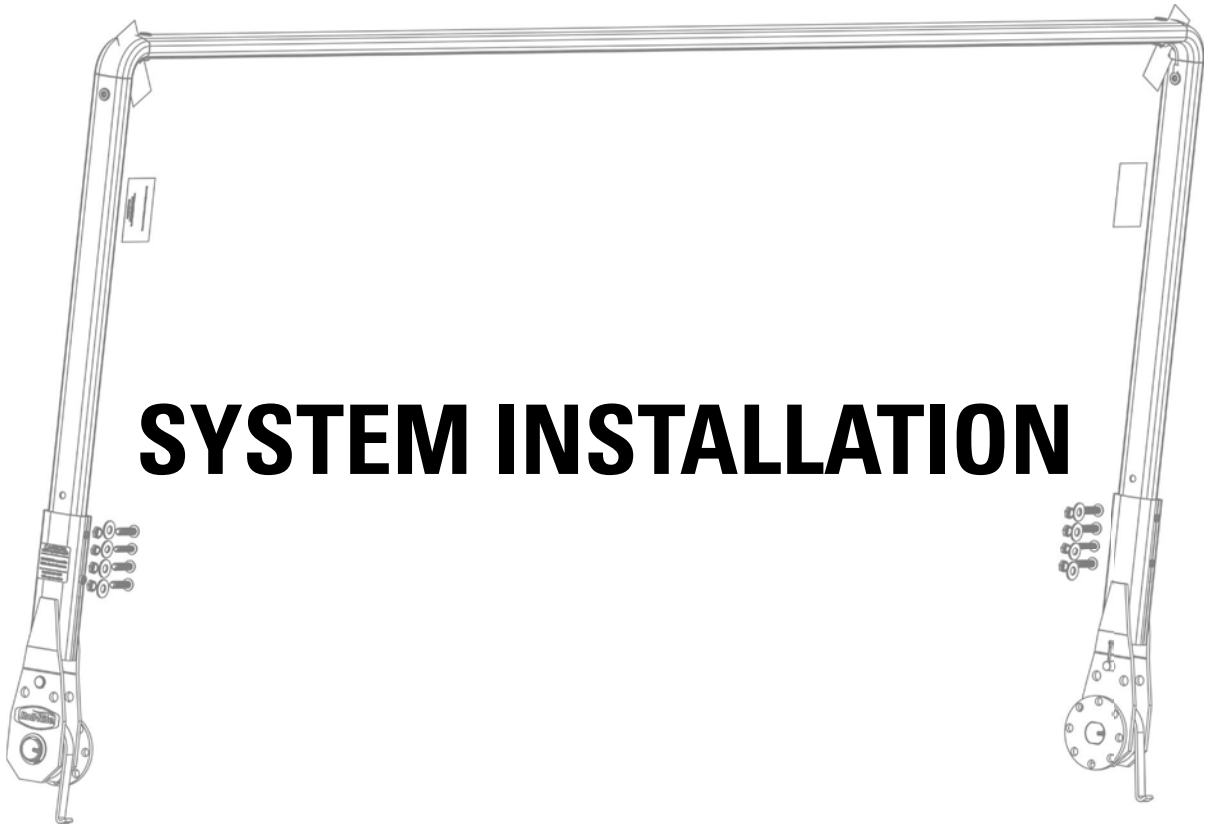
Once both aluminum corners and tethers are installed, the system can be operated to ensure that the tension hoop is positioned correctly and has desired spring pressure for tarp hold down during operation and transportation.

Tension Hoop Base System - P/# 108215

ITEM	PART #	DESCRIPTION	QTY
1	P/# 108211	Tension Hoop Pivot Assembly (Driver Side)	1
2	P/# 108213	Tension Hoop Pivot Assembly (Passenger Side)	1
3	P/# 108212	Tension Hoop Base Arm	2
4	P/# 76790	Tension Hoop Back Bow Set	1

REV. 12/09/24 WLH

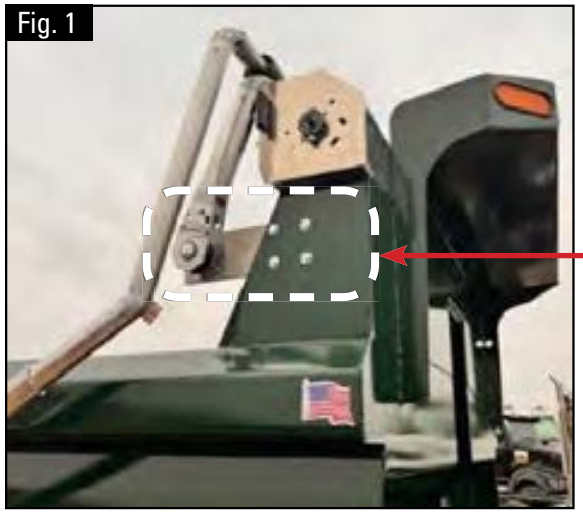




SYSTEM INSTALLATION

Pivot Installation

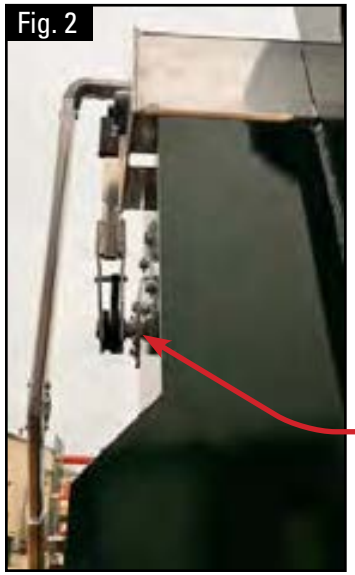
Fig. 1



Step 1: The pivots will be attached to the cab shield with fabricated bracket (as shown) or directly to the cab shield (Fig. 1).

Note: The Pivots for the tension hoop system are side specific, so proper orientation of the springs is required to operate.

Fig. 2



Step 2: Position the pivots on the cab shield or custom fabricated brackets so that the pivots are inside of the main tarp system tarping arms. Using the pivot as a template mark (4) holes 90 degrees apart and drill with a 25/64" drill bit. The pivots have additional mounting holes to be able to clock the pivot into the additional positions for desired tarp tension by simply rotating the mounting plate and attaching via the four (4) mounting bolts (Fig. 2 & 3).

Note: Some cab shield configurations will require an additional mounting bracket to be fabricated and supplied at the time of install which are not included in the base kit.

Fig. 3

Pivot Installation (Continued)

Fig. 4

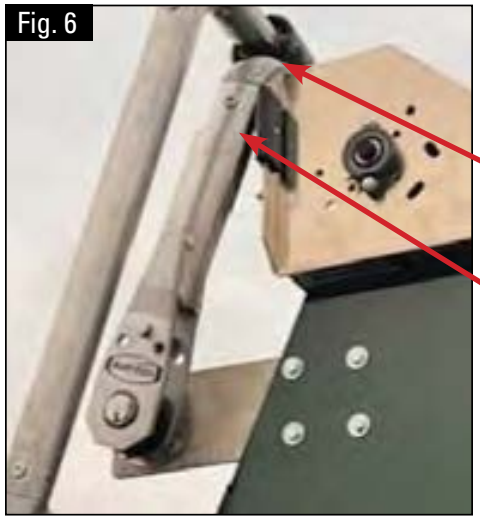
Step 3: Secure the pivots to mounting location with provided hardware, (4) 3/8”x 16 bolts, nuts and washers. Torque all (4) bolts to 23-31 ft lbs (Fig. 4 & 5).

Fig. 5

(4) Four places each pivot

Base Arm Installation

Fig. 6



Step 1: The base arms for the system are predrilled to allow attachment to the aluminum corners and bow tube. This arm may have to be cut to length based on the pivot mounting location. The arm length allows adjustment but may need to be shortened to get the desired landing point of the hoop (Fig. 6).

Fig. 7

Step 2: Secure the arms to the pivots after proper length adjustment with the (2) provided set screws per pivot. A ¼" Allen Wrench will be required to torque the set screws and secure the base arms to the pivots. Torque to 70 inch-pounds (Fig. 7).

Back Bow Installation

Step 1: The bow tube for the tension hoop is also predrilled for installation. Some cab shield configurations will require you to cut the bow tube to length and drill (1) hole for the aluminum 90° corners (Fig. 7).

Fig. 7

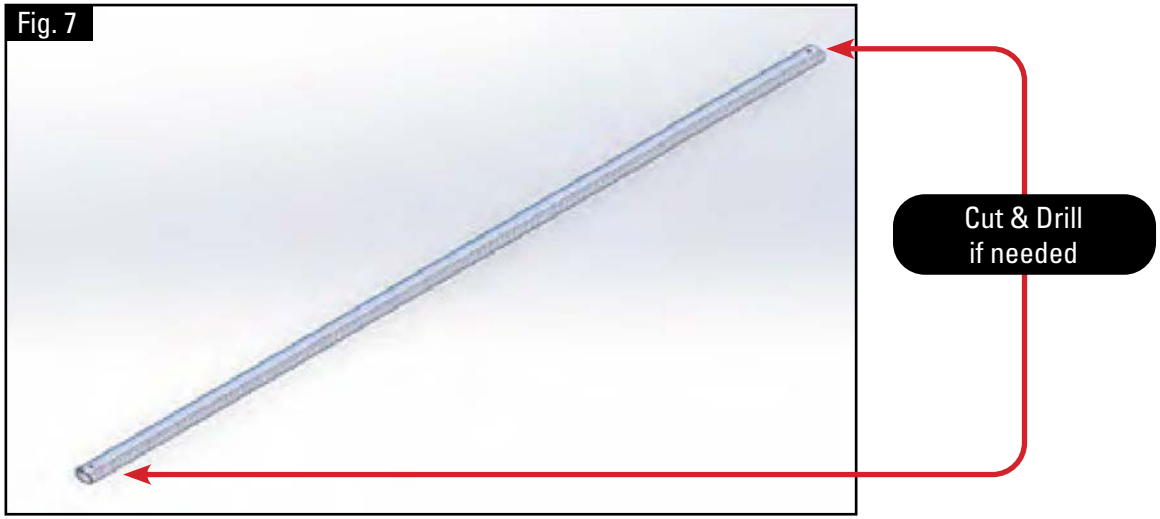
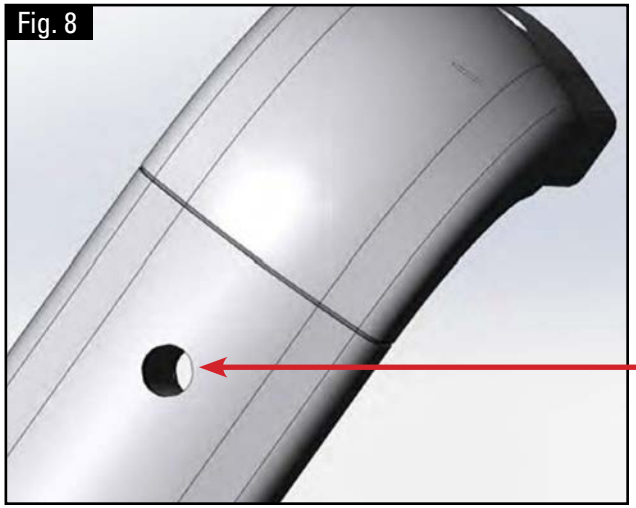


Fig. 8

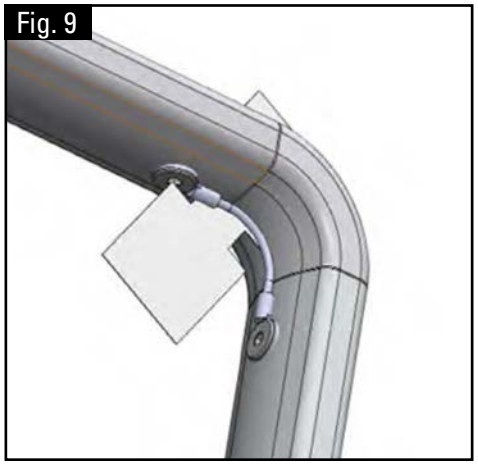


Step 2: Measure the distance between pivots. Cut the bow tube to length using this measurement.

Step 3: Using the aluminum corner as a template, mark the hole location and drill a new 3/8” hole for attachment of the aluminum corner to the bow tube (Fig. 8).

Back Bow Installation (Continued)

Fig. 9



Step 1: Install the aluminum corners in the bow tube and base arm and install the tethers on the inside of the arm with barrel bolts as show (inside of corner and bow set) Torque Barrel Bolts to 68-75 inch-pounds (Fig. 9).

System Check

Step 1: Once both aluminum corners and tethers are installed the system can be operated to ensure that the tension hoop is positioned correctly and has desired spring pressure for tarp hold down during operation and transportation.

Step 2: If spring tension is not what is desired, the pivots can be clocked on the (4) mounting bolts to increase/decrease the pressure for tarp hold down.