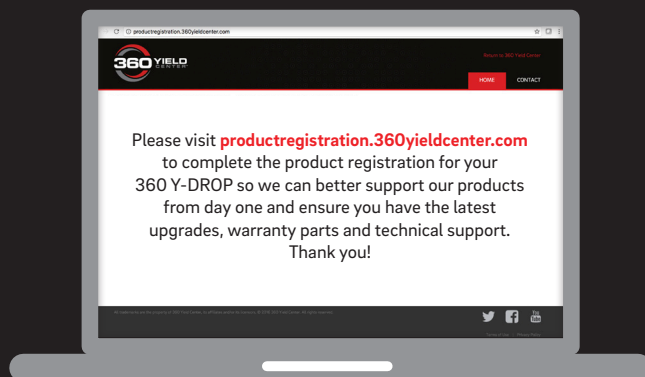




# INSTRUCTIONS 360 Y-DROP<sup>®</sup>

ROGATOR

## 360 Y-DROP<sup>®</sup> REGISTRATION





# INSTRUCTIONS

## 360 Y-DROP

### ROGATOR

#### ⊕ INTRODUCTION

- + Before beginning, it's important to know where each mounting bracket fits relative to the row spacing involved. The 360 Y-DROP unit should be precisely centered on the machine, as this is critical to the assembly of the system to the sprayer and for mounting the system to your sprayer boom. There are, however, many boom variations among all sprayer models. Your sprayer may not be identical to the model in the following steps of the guide, and the pictures may not exactly reflect your model. While these steps will help you install most of your 360 Y-DROP system, you may need to custom-fit some components with your particular boom.

#### ⊕ RECOMMENDED TOOLS

- + Ratchet wrench with 1/2" and 9/16" deep well sockets
- + 3/8" 12-point socket
- + 1/2" and 9/16" combination wrenches
- + #2 Phillips screwdriver (for the shield installation)

#### ⊕ TORQUE VALUES

- + Refer to these torque values when tightening all fasteners

|                   |           |           |
|-------------------|-----------|-----------|
| + 5/16" stainless | U-bolt    | 15 ft/lbs |
| + 5/16" stainless | Set screw | 15 ft/lbs |
| + 3/8" carbon     | U-bolt    | 35 ft/lbs |
| + 5/16" carbon    | U-bolt    | 30 ft/lbs |
| + 5/16" carbon    | Stop bolt | 30 ft/lbs |

#### ⊕ QUESTIONS

- + Call our Product Support team at 888-512-4890

# I.

## ESTABLISH DROP LOCATIONS

Figures 1 and 2

**Step 1** Locate the center of the machine and identify the location of all the drops. On the sprayer boom, mark where each riser mount will be located. This will ensure that the extension tubes will not interfere with the riser mounts.

Figure 3

**Step 2** For the primary boom; starting at the wing fold pivot pin, measure out and make marks at 61", 131", 190", 256" and 310" (all measurements are  $\pm 5$ "). Repeat for the other primary boom.

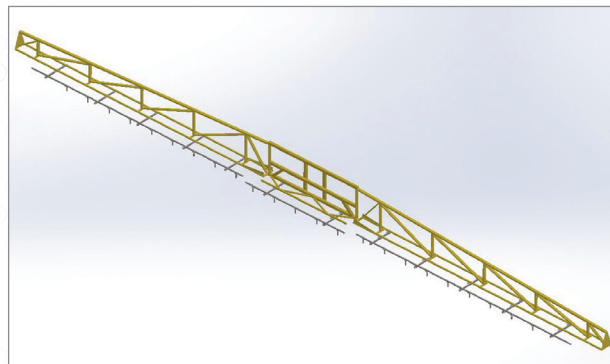


Figure 1

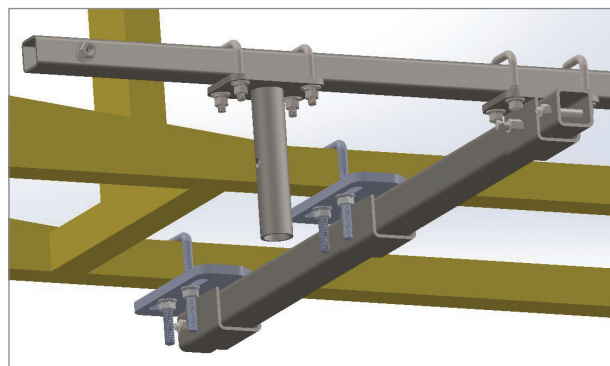


Figure 2

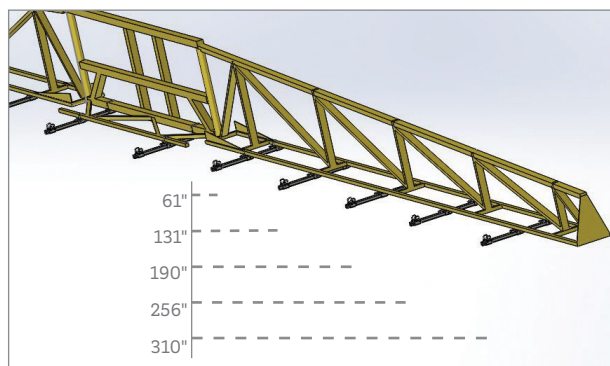


Figure 3

## II.

### INSTALL MOUNT ASSEMBLIES ON THE OEM PRIMARY BOOM

**NOTE:** It is only on the 120' booms that the center section wet boom is below the OEM boom. On the 80', 90' and 100' booms, the wet boom is positioned higher. Keep this in mind, as the pictures that follow may not exactly match your equipment. This will not affect the installation of the 360 Y-DROP brackets.

Figure 4

**Step 1** With the threads pointing down, install U-bolt (1) on the top of the OEM primary boom.

Primary Booms:

Rogator 80, 90, 100 - Use Bag AD and Bag AJ

Rogator 120 - Use Bag AD

**Step 2** Install bracket assembly (2) and flange lock nut (3).

Hardware Kit D

Repeat Steps 1 and 2 for the other OEM mount bracket kit.

**Step 3** Install extension tube (4).

**Step 4** Install boom bracket (5) onto the extension tube.

**Step 5** Install square U-bolts (6), the 5/16" extra thick washers and the 5/16" nuts.

Hardware Kit A

**Step 6** Install stop bolts (7) at both the front and the rear of the extension tube.

Hardware Kit B

Figure 5

**Step 7** Install stainless steel set screw and jam nut assembly (1) onto the bracket assemblies.

Hardware Kit D

Repeat Steps 1-7 for the remaining mount assemblies on the OEM primary boom.

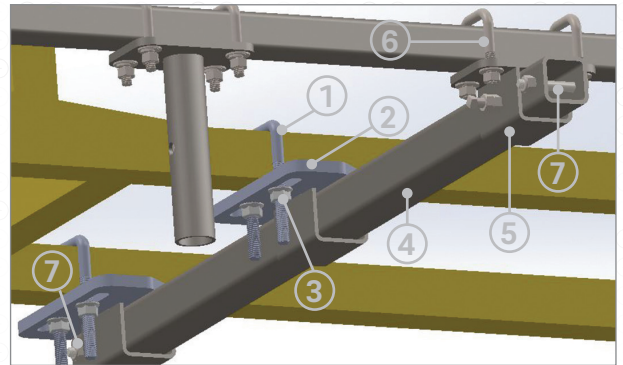


Figure 4

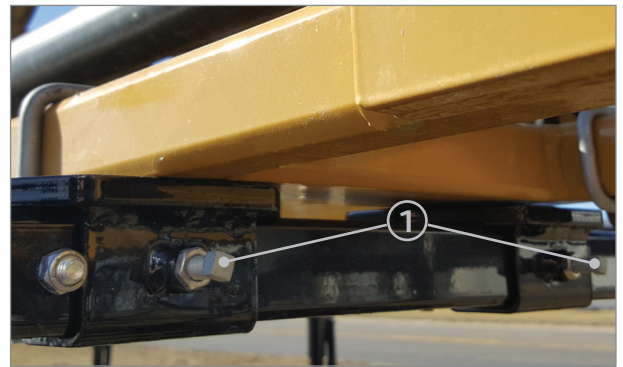


Figure 5

### III.

## INSTALL CENTER SECTION SQUARE TUBE

Figure 6

**Step 1** With the threads pointing down, install square U-bolt (1) on the front OEM center section boom.

Center Section:

Rogator 80, 90, 100 - Use Bag AD and Bag AJ

Rogator 120 - Use Center Section Kit

**Step 2** Position bracket assembly (2) and install 3/8" flange nuts (3).

**Step 3** With the threads pointing down, install square U-bolt (4) on the rear OEM center section boom.

**Step 4** Install adapter plate (5) and 3/8" flange nuts (6).

**Step 5** Install extension tube (7) onto bracket assembly (2).

Figure 7

**Step 6** Install boom bracket (1) onto extension tube (2).

Bag BB

**Step 7** Install stop bolt assemblies (3).

**Step 8** Install stop bolts (3) at both the front and the rear of the extension tube.

Repeat Steps 1-8 for the other center section mount.

Figure 8

**Step 9** Install stainless steel set screw and jam nut assembly (1) onto the bracket assemblies.

Hardware Kit D

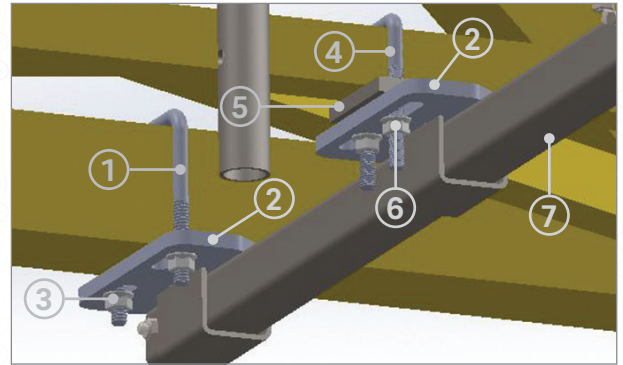


Figure 6

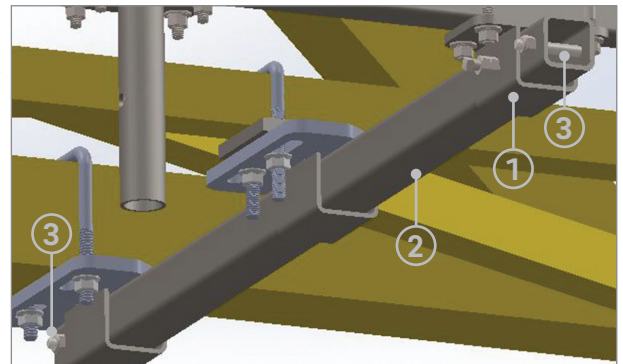


Figure 7



Figure 8



## IV.

### INSTALL 360 Y-DROP BOOM

Figure 9

**Step 1** Assemble 5' boom sections (1) using the 8" boom connectors (2) and the supplied hardware.

Hardware Bag CC

**Step 2** Repeat Step 1 as needed in order to assemble the entire 360 Y-DROP boom.

**Step 3** Set the 360 Y-DROP boom assembly onto boom bracket (3).

Repeat Steps 1 -3 for the remaining boom assemblies.



**CAUTION:** The 360 Y-DROP boom assembly may weigh up to 150 lbs. (68 kg). Exercise caution and enlist help for this process.

Figure 10

**Step 4** In order to span the full length of the center section 360 Y-DROP boom, you will need to cut and drill one of the 5' boom sections to 1'. Mount this 1' section between two full 5' boom sections. Drill a 7/16" through hole centered 2" from the outside edge.

Figures 11 and 12

**Step 5** Install square U-bolt (1), the 5/16" extra thick washers, and the 5/16" nuts over the 360 Y-DROP boom (2).

Hardware Kit A

**Step 6** Install stop bolt (3) at both the front and the rear of the extension tube. Repeat for remaining stop bolts.

Hardware Kit B

**Step 7** Install stainless steel set screw and jam nut assembly (4). See Figure 13 for detail. Repeat for the remaining mount assemblies on the primary boom.

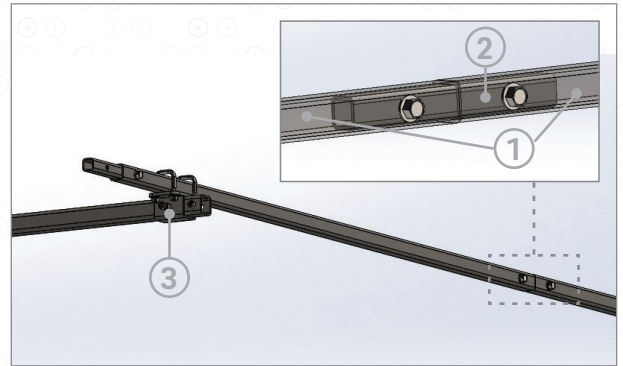


Figure 9



Figure 10

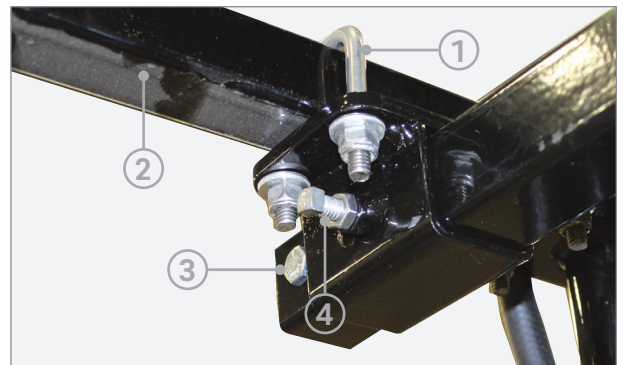


Figure 11

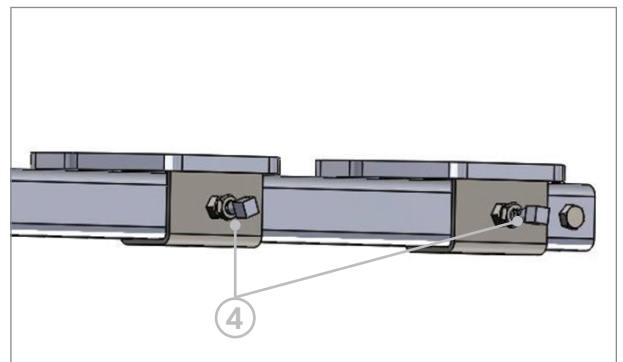


Figure 12

## V.

**INSTALL BREAKAWAY ASSEMBLY - ONE PIECE**

Figure 13

**Step 1** Install breakaway assembly - one piece (1) using the square U-bolts (2) and the extra thick washer and Nylock nut. Repeat for the remaining breakaway assemblies - one piece.

Hardware Kit C

Figure 14

Figure 14 may show more or fewer mounts than your installation. The alignment and quantity of the mounts will depend on your row spacing.

Figure 15

**Step 2** Install riser tube assembly (1) into the breakaway assembly - one piece (2).

**Step 3** Install pin (3).

Repeat Steps 2 and 3 for the remaining riser tube assemblies.

**NOTE:** Included in most sprayer mount packages are standard riser mounts to be used when primary booms are folded and in transport mode. These standard riser mounts should be mounted in locations that allow you to relocate the drops away from potential tire interference. See "Install Riser Mounts Without Breakaway Assemblies" section on next page for more instructions.

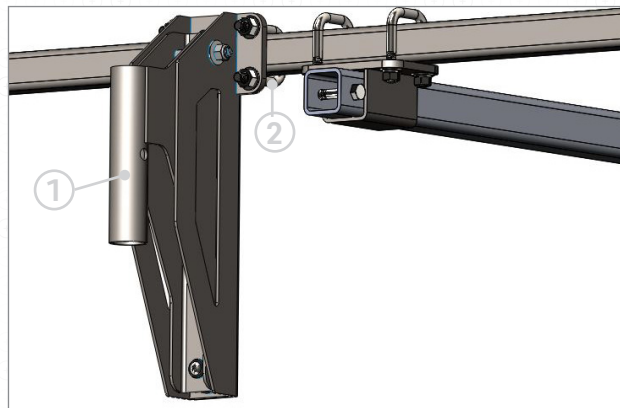


Figure 13

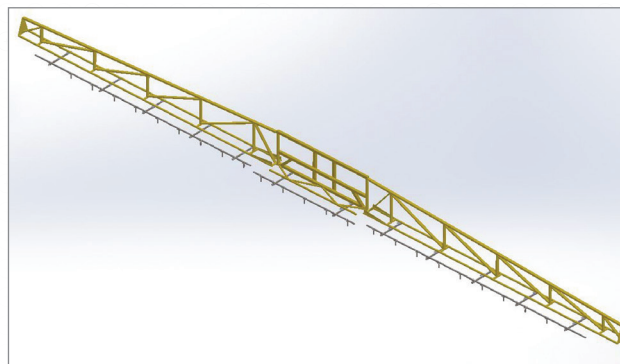


Figure 14

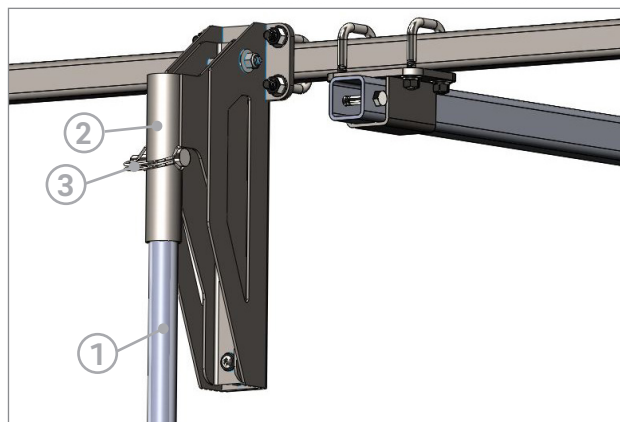


Figure 15

V.

## INSTALL RISER MOUNTS WITHOUT BREAKAWAY ASSEMBLIES (OPTIONAL)

Figure 16

**Step 1** Install riser mount (1) using the square U-bolts (2) and the extra thick washer and Nylock nut. Repeat for the remaining riser mounts.

Hardware Kit C

Figure 17

Figure 17 may show more or fewer riser mounts than your installation. The alignment and quantity of the riser mounts will depend on your row spacing.

Figure 18

**Step 2** Install riser tube assembly (1) into the riser mount (2).

**Step 3** Install pin (3).

Repeat Steps 2 and 3 for the remaining riser tube assemblies.

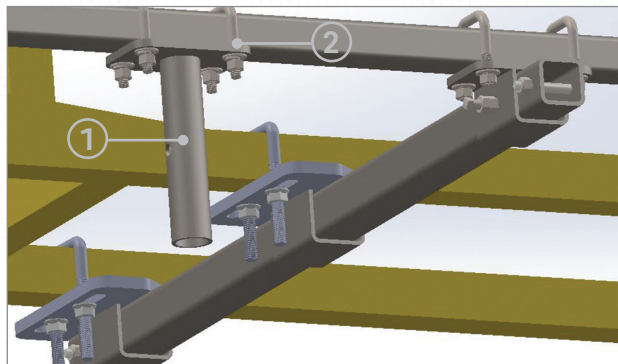


Figure 16

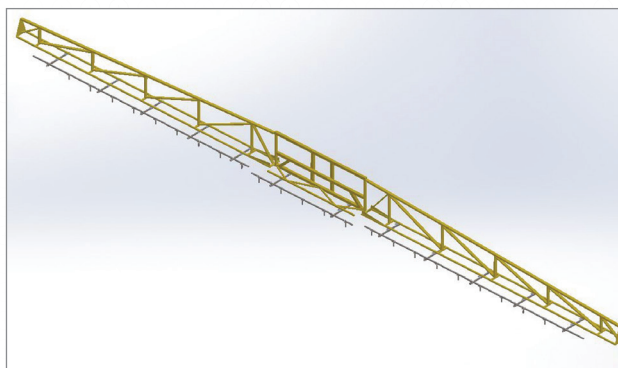


Figure 17

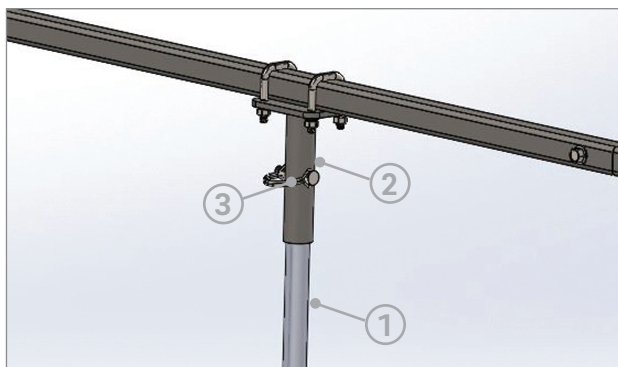


Figure 18



VI.

## INSTALL SHIELDS AND RISER HOSES

Figure 19

**Step 1** Install shield (1) onto riser tube (2).

Figure 20

**Step 2** Install base unit (1) onto riser tube (2).

Figure 21

**Step 3** Assemble drag hoses (1) to 360 Y-DROP base and secure with hose clamps (2).

Figure 22

**Step 4** Note the orientation of the drag hose clamps. The tails should point inward.

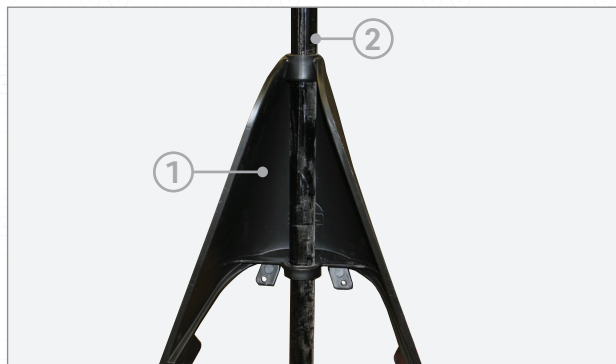


Figure 19

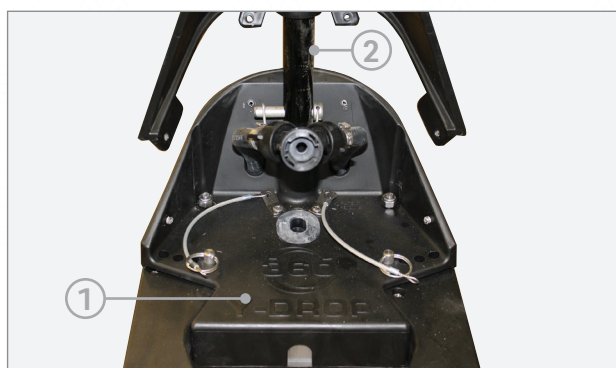


Figure 20

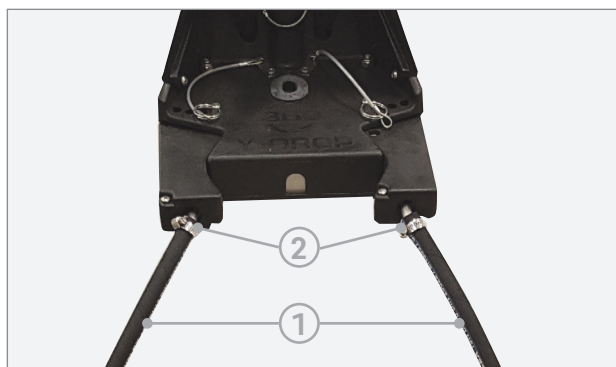


Figure 21



Figure 22

## VI. INSTALL SHIELDS AND RISER HOSES *(CONTINUED)*

Figure 23



**CAUTION:** Do NOT use a drill or impact driver for Steps 5 and 6.

**Step 5** Install two ½" screws (1).

**Step 6** Install two ¾" screws (2).

**Step 7** Install rubber washer (3) into the "Y".

Figure 24

**Step 8** Install riser hose assembly (1) into the "Y".

Figure 25

**Step 9** Route riser hose assembly (1) as shown in Figure 25.

**Step 10** Install the riser hose assembly to the OEM nozzle body.

**Step 11** Use 3 equally spaced plastic ties to secure the riser hose assembly.

Repeat Steps 1-11 for the remaining 360 Y-DROP Shields.

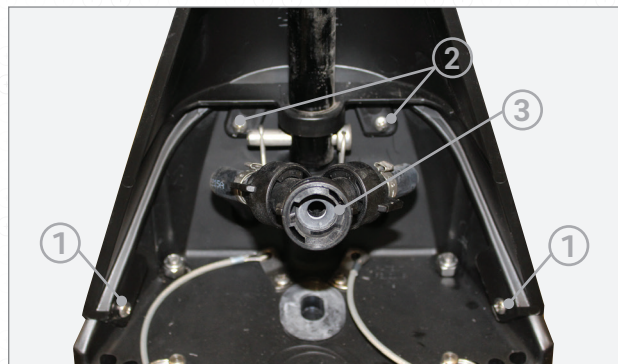


Figure 23



Figure 24

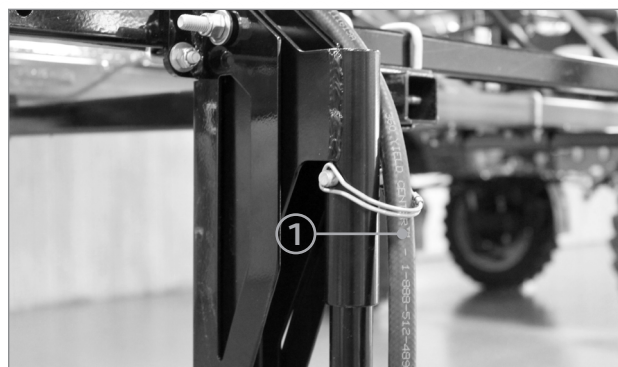


Figure 25

**+** INSTALLATION COMPLETE.

