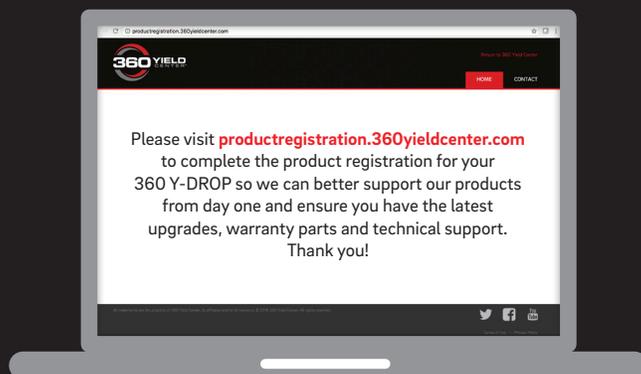




# INSTRUCTIONS 360 Y-DROP®

HAGIE DTS 2016 +

## 360 Y-DROP® REGISTRATION





# INSTRUCTIONS 360 Y-DROP

## HAGIE DTS 2016 +

### ⊕ 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)
- + Drill with 7/16" drill bit

### ⊕ 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** Starting at the wing fold pivot pin on the primary boom, measure and mark points at 40", 100", 160", 220" and 280" (all measurements are  $\pm 5"$ ). Repeat for the other primary boom.



Figure 1

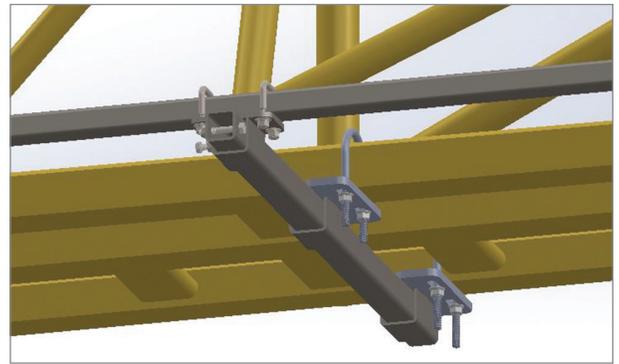


Figure 2

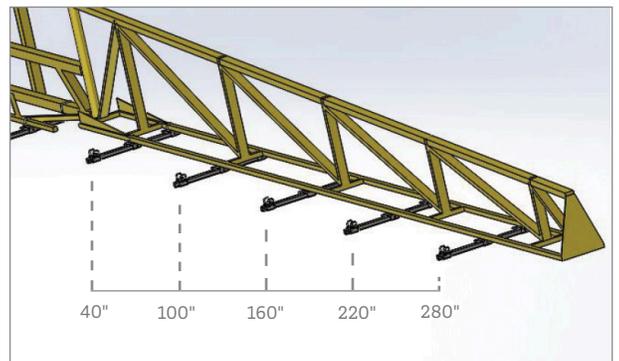


Figure 3

## II.

## INSTALL PRIMARY BOOM SPRAYER MOUNT PACKAGE

Figures 4

To prepare for the steps that follow, you will need to drill two 7/16" holes at mounting location 1 (40" +/-5" from the pivot pin) on both OEM Primary booms. This will allow for the installation of the first mounting position of the square U-bolt on the front and rear OEM booms.

Figures 5 and 6

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

Bag AF (2.0")

Bag AG (2.5")

**Step 2** Install bracket assemblies (2) and the flange nuts.

Hardware Kit D

Figure 7

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

**Step 4** Install boom bracket (4) onto extension tube (3).

Repeat Steps 1-4 for the remaining mounting positions on the primary booms.

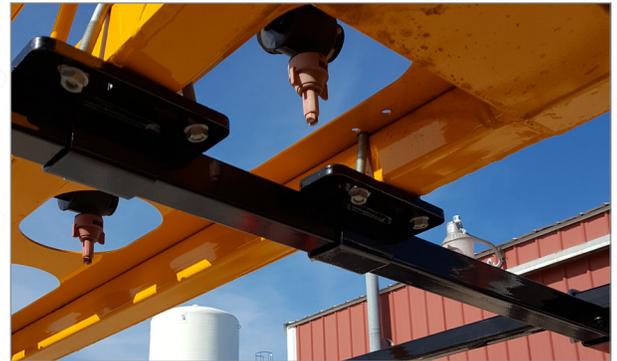


Figure 4

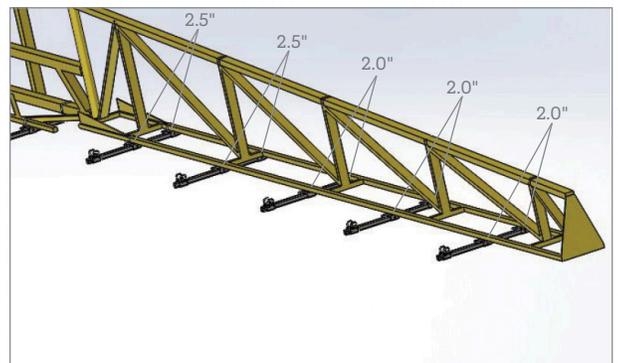


Figure 5



Figure 6



Figure 7

### III. INSTALL CENTER SECTION SQUARE TUBE

Figures 9 and 10

**Step 1** Install u-bolt (1) and 14" top plate (2) using the supplied hardware.

**Step 2** Install bracket assemblies (3).

**NOTE:** Install OEM mount bracket kits so that the set screws are pointing inward to ensure clearance when the primary booms are folded (see Figure 11).

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

**Step 4** Install 360 Y-DROP boom bracket (5) on extension tube (4).

Bag BB

**Step 5** Install stop bolt assemblies (6).

Hardware Kit B within Bag BB

**Step 6** Install set screws (7) on bracket assemblies.

Hardware Kit D within the Center Section Kit

**Step 7** Install the set screw on Y-DROP boom bracket.

Hardware Kit D within the Center Section Kit

Repeat steps 1-7 for the remainder of the center section support assemblies.



Figure 8

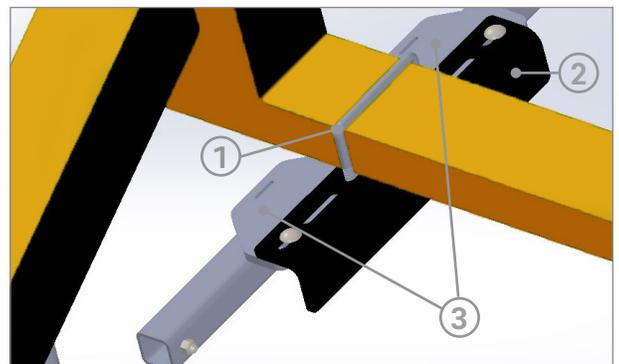


Figure 9

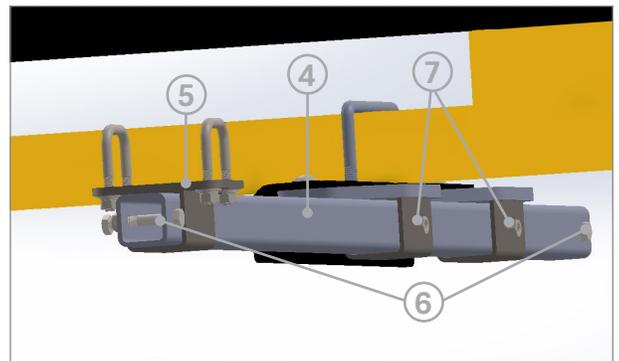


Figure 10



Figure 11

## IV. INSTALL 360 Y-DROP BOOM

Figure 12

**Step 1** Assemble 5' boom sections (1) utilizing 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 13

**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 14 and 15

**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 the 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 12 for detail. Repeat for the remaining mount assemblies on the primary boom.



Figure 12



Figure 13

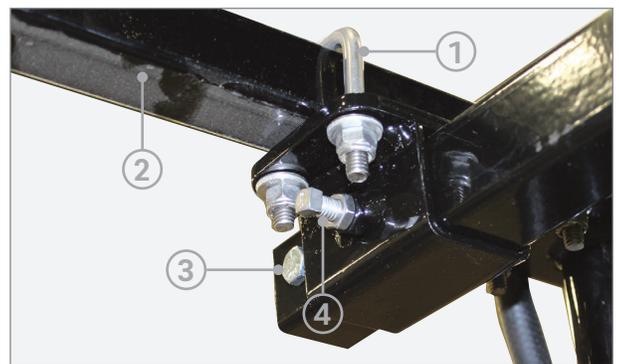


Figure 14

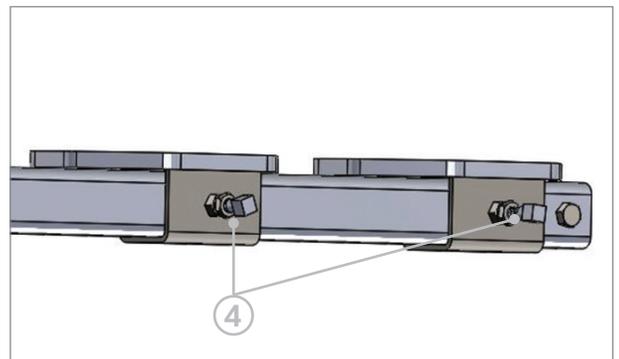


Figure 15

V.

## INSTALL BREAKAWAY ASSEMBLY - ONE PIECE

Figure 16

**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 17

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

Figure 18

**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.

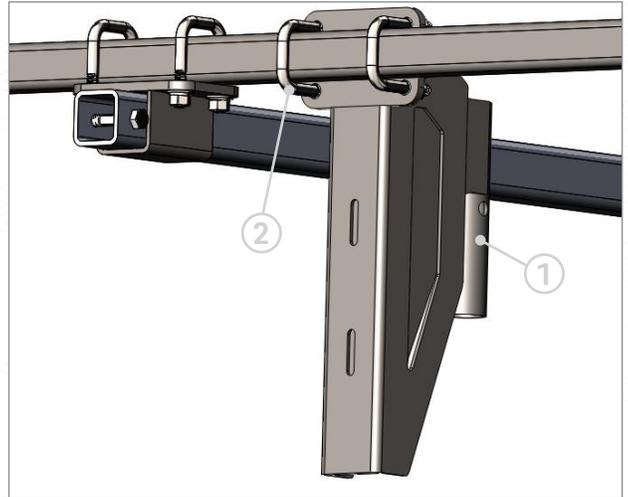


Figure 16



Figure 17

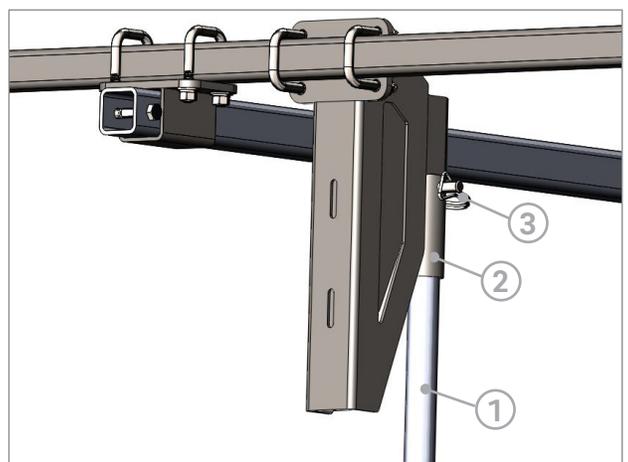


Figure 18

V.

## INSTALL RISER MOUNTS WITHOUT BREAKAWAY ASSEMBLIES (OPTIONAL)

Figure 19

**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 20

Figure 20 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 21

**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.

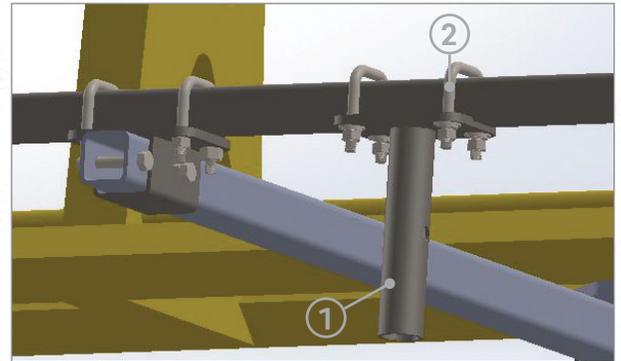


Figure 19

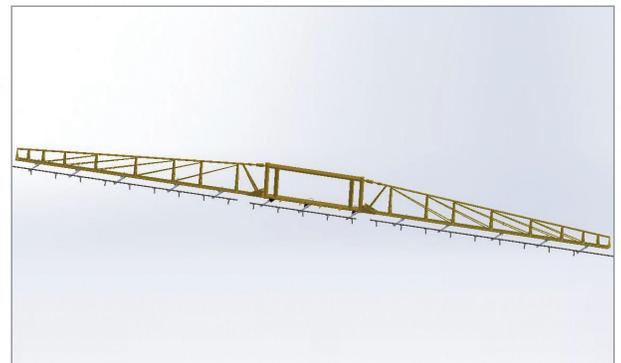


Figure 20

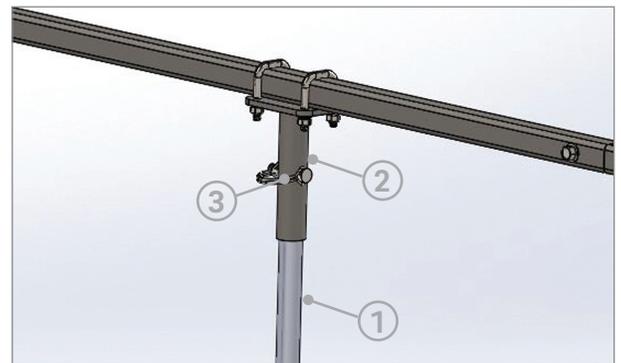


Figure 21

## VI. INSTALL SHIELDS AND RISER HOSES

Figure 22

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

Figure 23

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

Figure 24

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

Figure 25

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

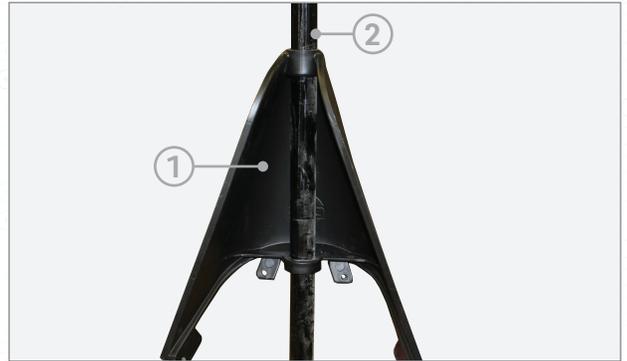


Figure 22

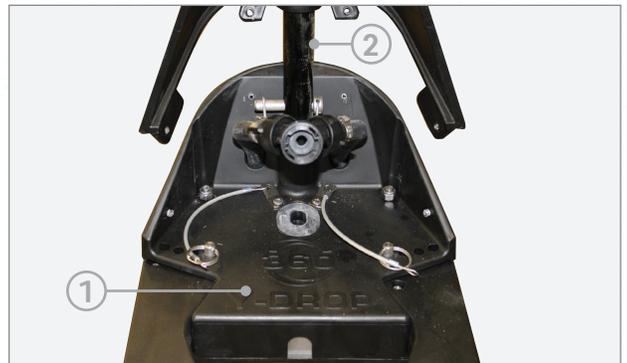


Figure 23

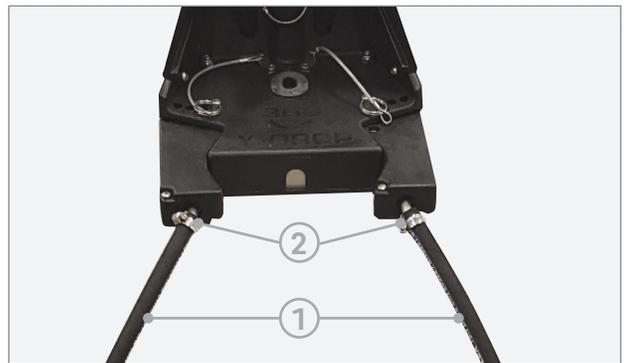


Figure 24



Figure 25

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

Figure 26



**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 27

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

Figure 28

**Step 9** Route riser hose assembly (1) as shown in Figure 28.

**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.

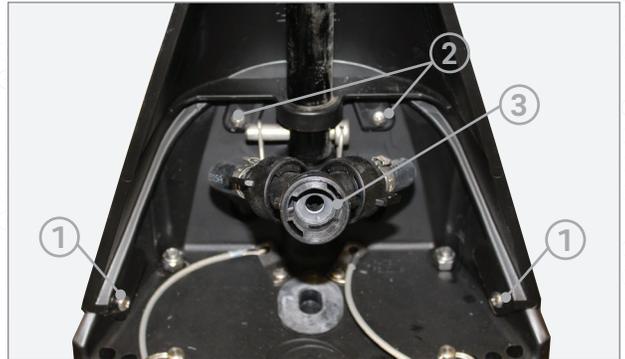


Figure 26



Figure 27

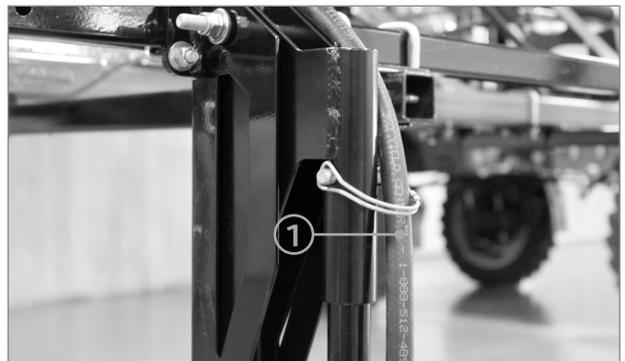


Figure 28

⊕ INSTALLATION COMPLETE.

