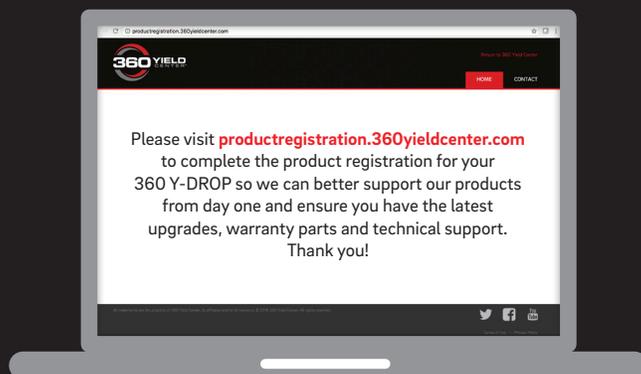




# INSTRUCTIONS 360 Y-DROP®

APACHE

## 360 Y-DROP® REGISTRATION





# INSTRUCTIONS 360 Y-DROP

## APACHE

### ⊕ 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

Figure 1

**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 2

**Step 2** For the primary boom; starting at the wing fold pivot pin, measure out and make marks at 28", 89", 152", 212" and 257" (all measurements are  $\pm 5$ "). Repeat for the other primary boom.



Figure 1

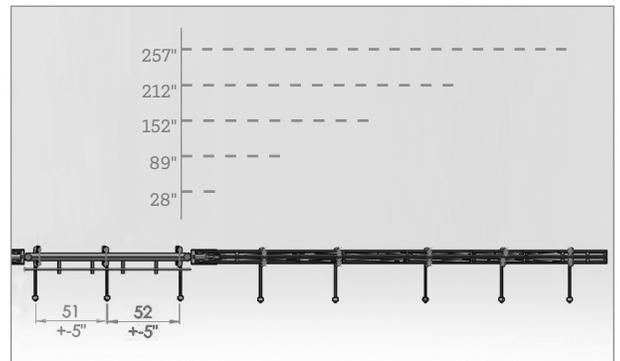


Figure 2

## II. INSTALL MOUNT ASSEMBLIES ON THE OEM PRIMARY BOOM

Figure 3

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

Bag AF

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

Hardware Kit D

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

Figure 4

**Step 4** Install boom bracket (1) onto the extension tube.

**Step 5** Install stop bolts (2) at both the front and the rear of the extension tube.

Hardware Kit B

Figure 5

**Step 6** Install stainless steel set screw and jam nut assembly (1) onto the bracket assembly.

Hardware Kit D

Repeat Steps 1-6 for the remaining mount assemblies on the OEM primary boom.

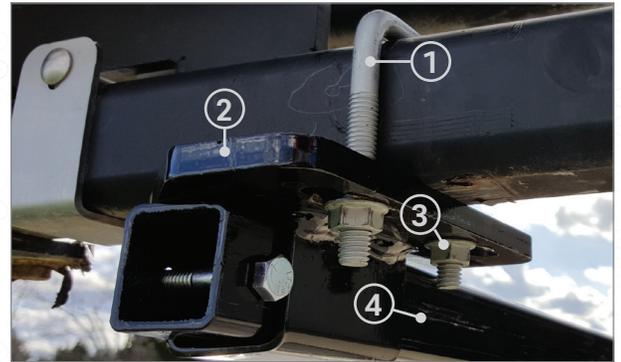


Figure 3



Figure 4



Figure 5

II.

**INSTALL MOUNT ASSEMBLIES  
ON THE OEM PRIMARY BOOM** *(CONTINUED)*

Figure 6

**Step 7** With the U-bolt pointing to the rear, install the yoke mount (1) and flange nuts to upper boom section.

**Step 8** With the square U-bolt threads pointing up and using the extra thick washer and Nylock nut, install yoke mount (2) to the 360 Y-DROP boom section.

**Step 9** Using pins, install the yoke straps (3) between the upper boom and 360 Y-DROP boom. Using the flange nuts, tighten the 1-1/4" carriage bolts.

Repeat Steps 7-9 for the remaining yokes on the OEM primary booms. Yokes should be spaced approximately 60" ( $\pm 5$ ") apart.

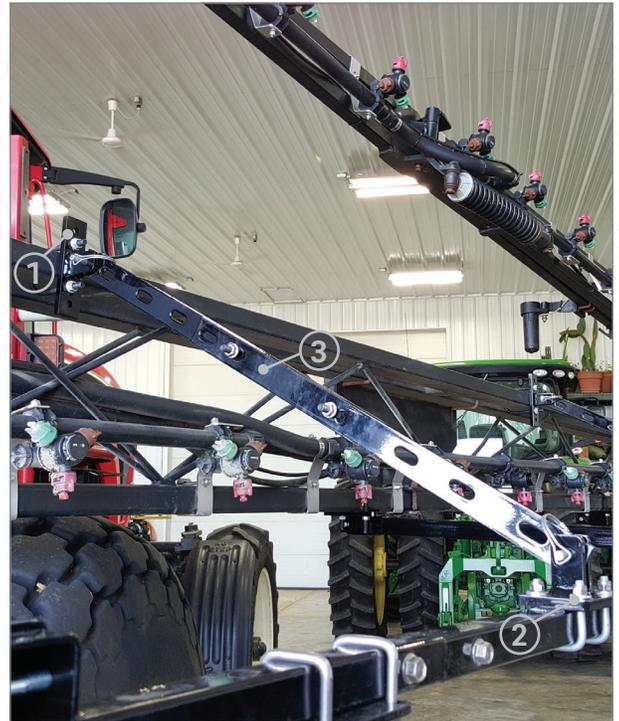


Figure 6

### III. INSTALL CENTER SECTION SQUARE TUBE

Figure 7

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

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

Figure 8

**Step 3** Install extension tube (1).

**Step 4** Install 360 Y-DROP boom bracket (2) on extension tube (1).

Bag BB

**Step 5** Install stop bolt assemblies (3).  
Hardware Kit B within Bag BB

**Step 6** Install set screws (4) on bracket assemblies.  
Hardware Kit D within the Center Section Kit

Figure 9

**Step 7** Install set screw (1) on Y-DROP boom bracket.  
Hardware Kit D within the Center Section Kit

**NOTE:** There are three mounting locations for the Apache Sprayer Mount Package.

Repeat steps 1-7 for the remainder of the center section square tube.

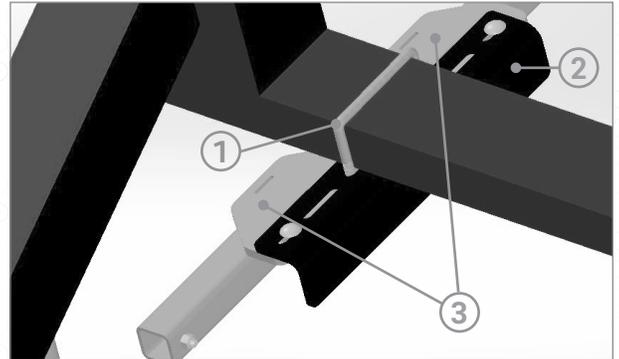


Figure 7

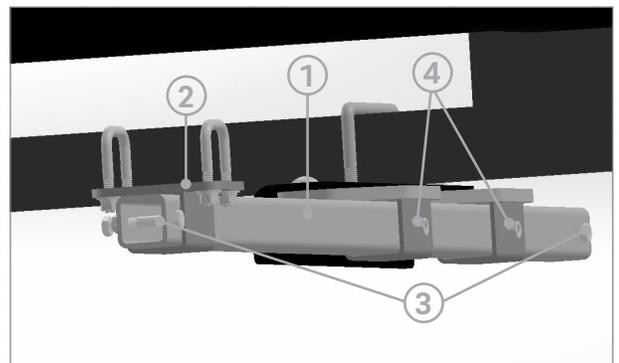


Figure 8

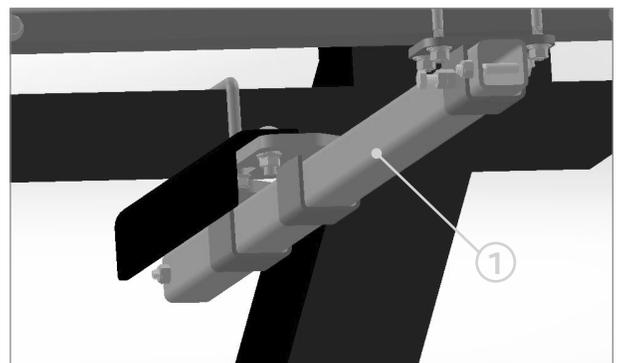


Figure 9

## IV. INSTALL 360 Y-DROP BOOM

Figure 10

**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 11

**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 12 and 13

**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 10



Figure 11

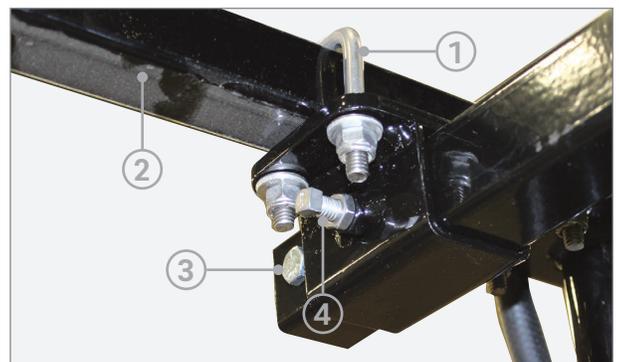


Figure 12

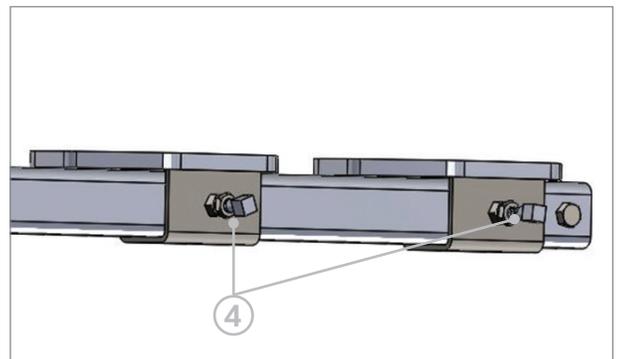


Figure 13

V.

## INSTALL BREAKAWAY ASSEMBLY - ONE PIECE

Figure 14

**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

**NOTE:** 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.

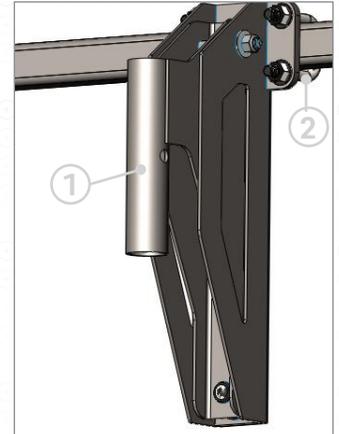


Figure 14

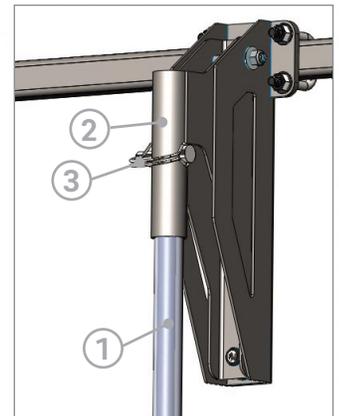


Figure 15

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

**NOTE:** The alignment and quantity of the riser mounts will depend on your row spacing.

Figure 17

**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

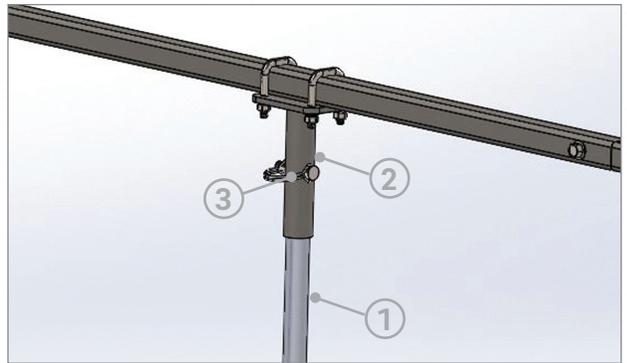


Figure 17

## VI. INSTALL SHIELDS AND RISER HOSES

Figure 18

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

Figure 19

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

Figure 20

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

Figure 21

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

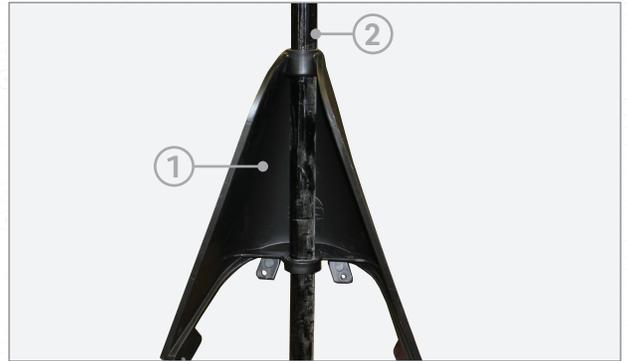


Figure 18



Figure 19

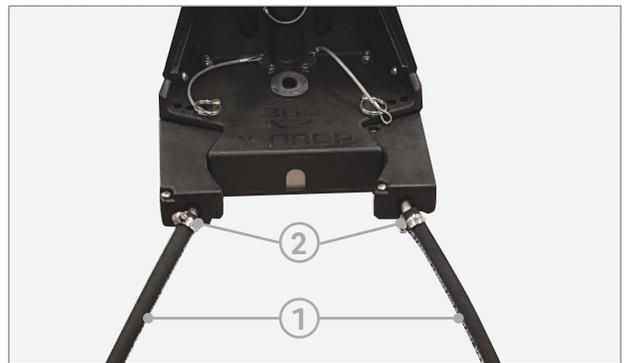


Figure 20



Figure 21

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

Figure 22

**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 23

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

Figure 24

**Step 9** Route riser hose assembly (1) as shown in Figure 24.

**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.

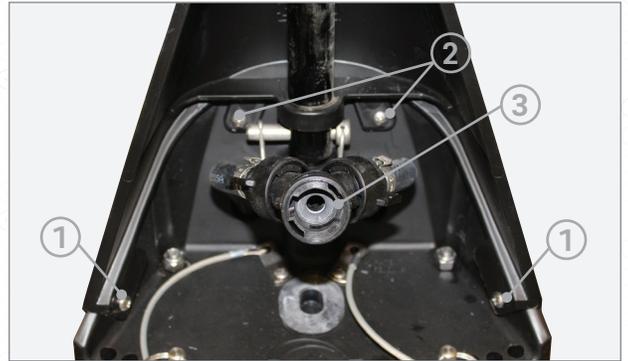


Figure 22



Figure 23

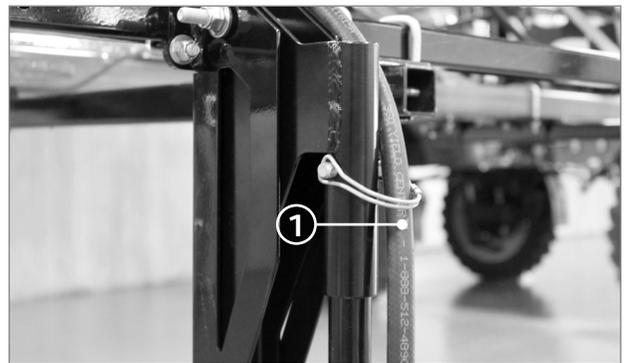


Figure 24

**+** INSTALLATION COMPLETE.