



# INSTRUCTIONS 360 Y-DROP®

MILLER 2008 AND LATER



# INSTRUCTIONS

## 360 Y-DROP

### MILLER 2008 AND LATER

#### ⊕ 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

**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 1

**Step 2** For the primary boom; starting at the wing fold pivot pin, measure out and make marks at 48", 108", 168", 244" and 289" (all measurements are  $\pm 5$ "). Repeat for the other primary boom.

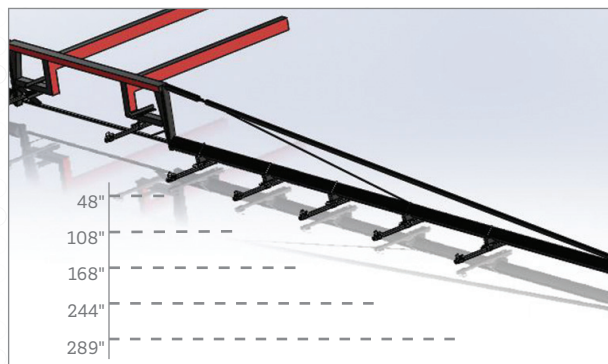


Figure 1

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

Figures 2 and 3

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

**Step 2** Install diamond boom clamp (2) on the bottom of the OEM primary boom.

**Step 3** Install 14" top plate (3).

**Step 4** Install bracket assembly (4) and flange lock nuts (5).

Hardware Kit D

**Step 5** Install carriage bolts (6) and flange nuts.

Hardware Kit D

**Step 6** Install extension tube (7).

Figure 4

**Step 7** Install boom bracket (1) onto the extension tube.

**Step 8** With the threads pointing down install square U-bolts (2) plus the 5/16" extra thick washers and the 5/16" nuts.

Hardware Kit A

**Step 9** Install stop bolts (3) at both the front and the rear of the extension tube.

Hardware Kit B

Figure 5

**Step 10** Install stainless steel set screws and jam nut assemblies (1) onto the bracket assemblies.

Hardware Kit D

Repeat Steps 1-10 the remaining mount assemblies on the OEM primary boom.

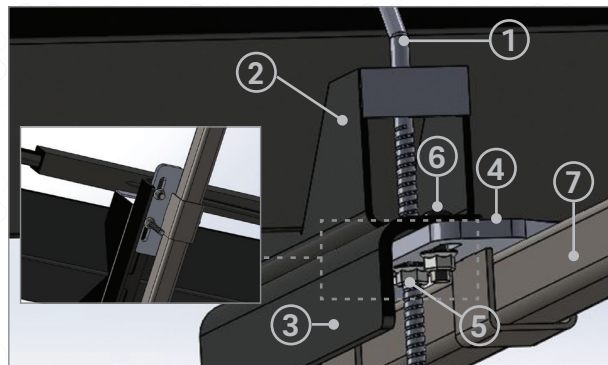


Figure 2

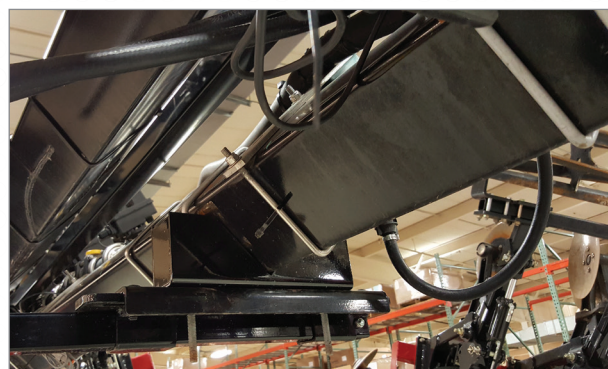


Figure 3

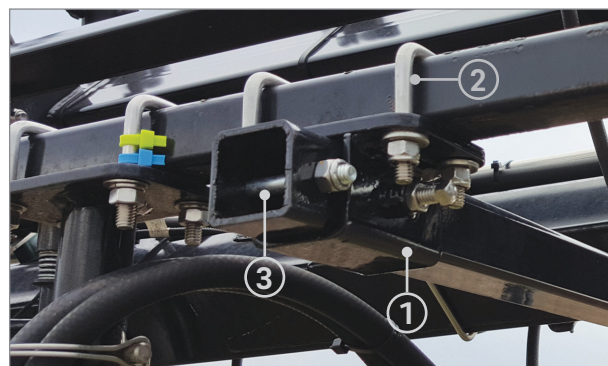


Figure 4

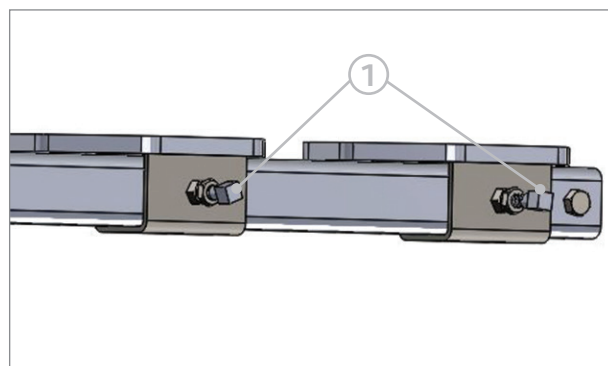


Figure 5

## III.

INSTALL CENTER SECTION  
SQUARE TUBE

Figure 6

- Step 1** Install bolts (1) over the OEM center section boom.
- Step 2** Place 14" top plates (2), spacer plate (3) and bracket assembly (4) into position and install 3/8" flange nuts (5).
- Step 3** Install extension tube (6) onto bracket assembly (4).
- Step 4** Install carriage bolts (7) and the flange nuts.
- Step 5** Install boom bracket (8).
- Step 6** Install stop bolt assemblies (9) at the front and rear of the extension tube.

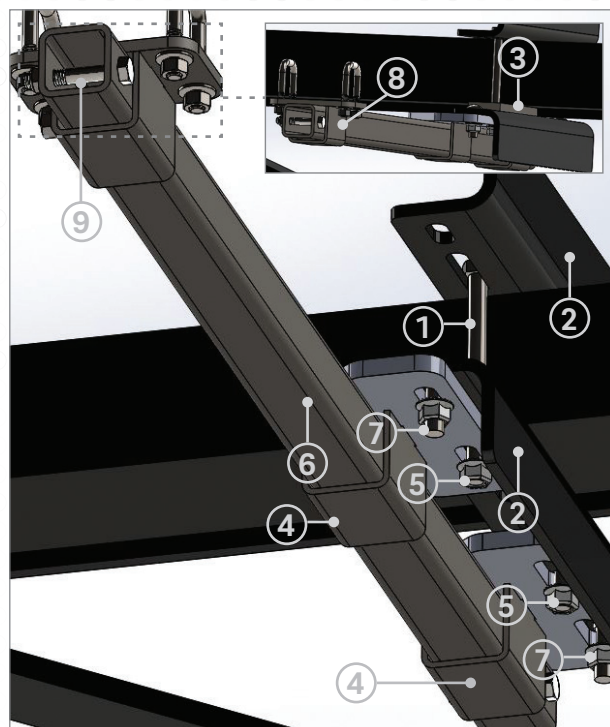


Figure 6

## IV. INSTALL 360 Y-DROP BOOM

Figure 7

**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 8

**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 9 and 10

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

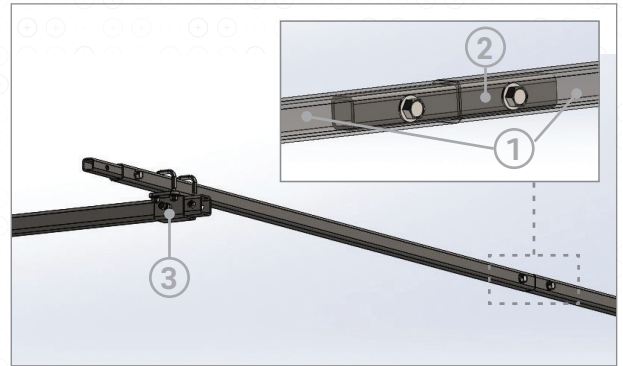


Figure 7



Figure 8

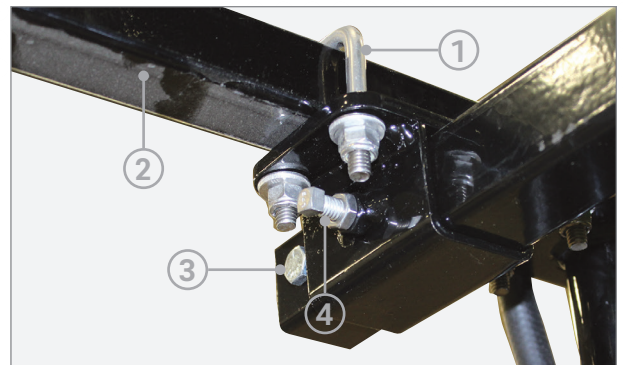


Figure 9

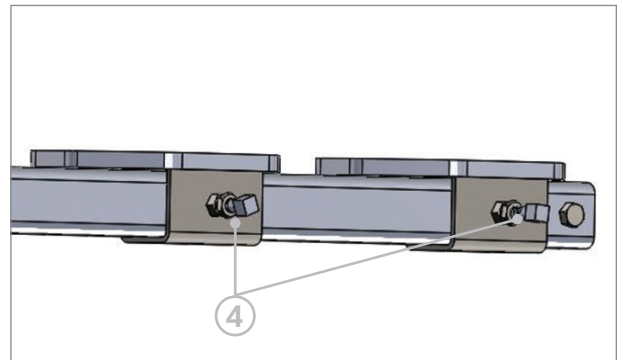


Figure 10



## V.

INSTALL  
RISER MOUNTS

Figure 11

**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 11

Figure 12

**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.

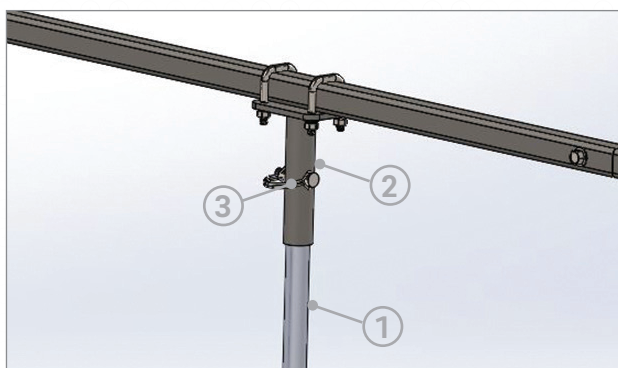


Figure 12

## VI.

INSTALL SHIELDS AND  
RISER HOSES

Figure 13

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

Figure 14

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

Figure 15

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

Figure 16

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

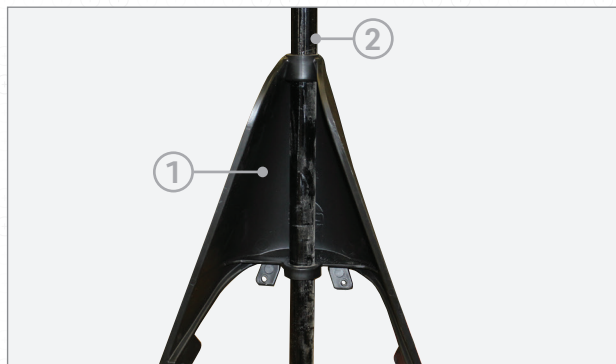


Figure 13

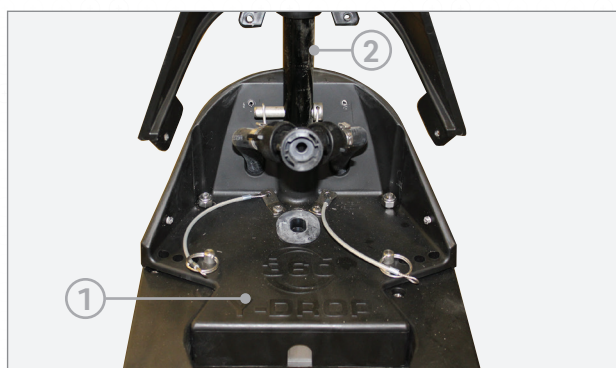


Figure 14

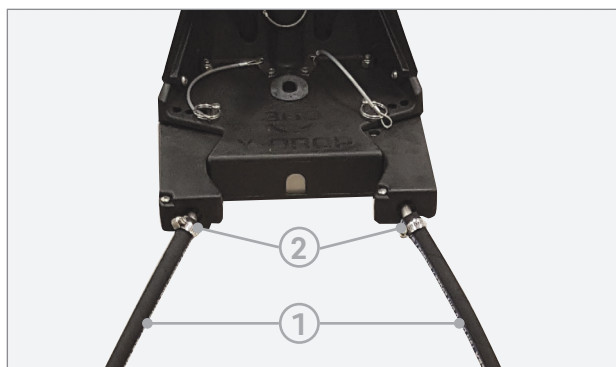


Figure 15



Figure 16



VI.

## INSTALL SHIELDS AND RISER HOSES *(continued)*

Figure 17



**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 18

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

Figure 19

**Step 9** Route riser hose assembly (1) as shown in Figure 18.

**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.

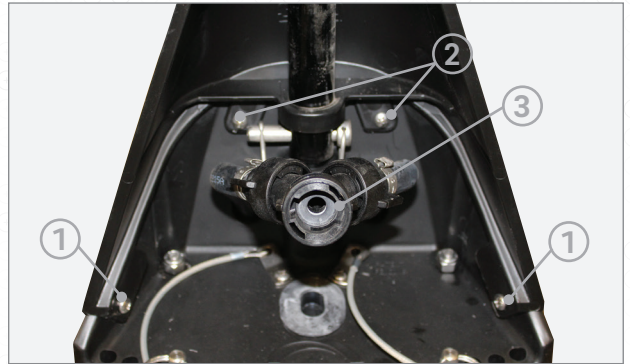


Figure 17



Figure 18



Figure 19

⊕ INSTALLATION COMPLETE.

