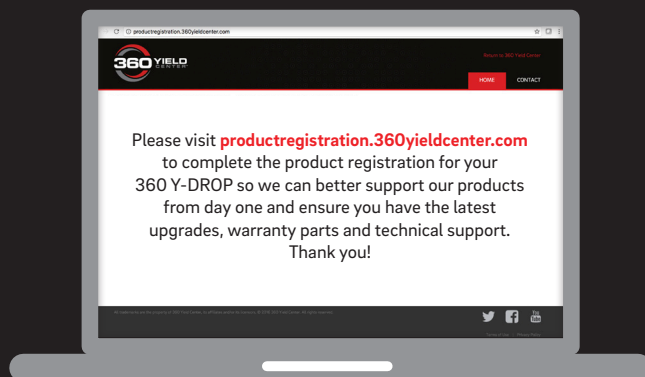




INSTRUCTIONS 360 Y-DROP®

JOHN DEERE 4720

360 Y-DROP® REGISTRATION





INSTRUCTIONS

360 Y-DROP

JOHN DEERE 4720

+ 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

+ 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 32", 86", 156", 213" and 277" (all measurements are $\pm 5"$). Repeat for the other primary boom.



Figure 1

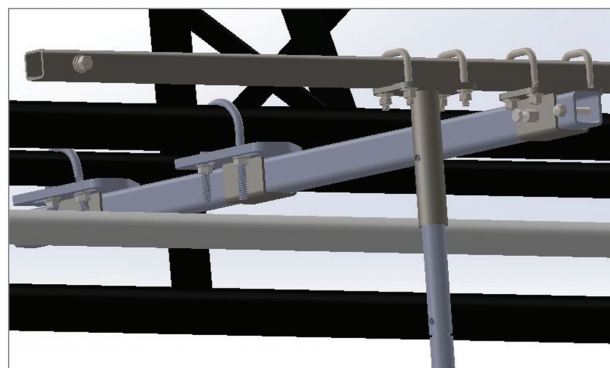


Figure 2

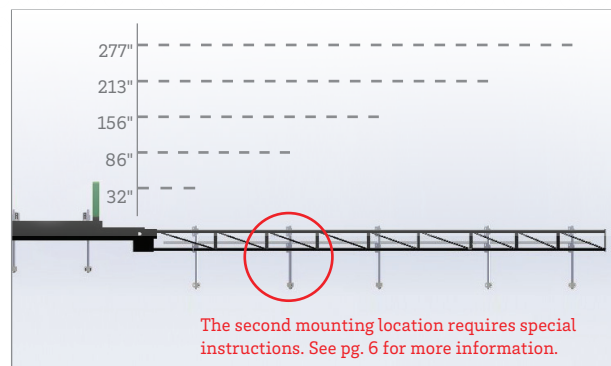


Figure 3

II.

INSTALL WET BOOM
SPACER PLATE

This process will create the clearance necessary for the new square tube and wet boom assembly.

Figure 4

Step 1 Remove bolt assemblies (1).

Figure 5

Step 2 Install two 4" spacer plates (1).

From Center Section Kit

Step 3 Install 5/16" x 2" bolts (2) with flat washers on the top and bottom and the Nylock nut.

Hardware Kit B from Center Section Kit

Repeat Steps 1-3 for all wet boom support assemblies.

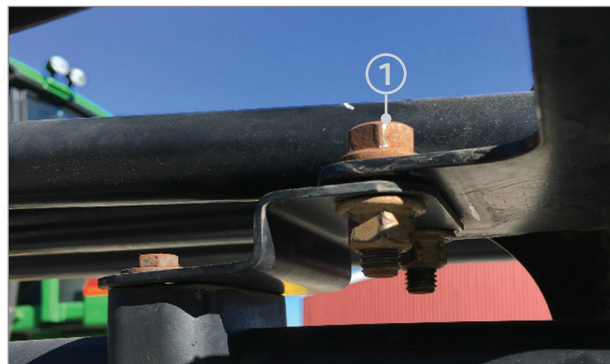


Figure 4

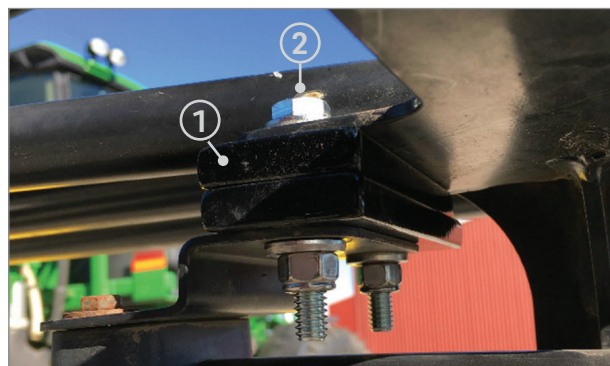


Figure 5

III.

INSTALL SQUARE TUBE
BRACKET ON OEM PRIMARY BOOM

NOTE: The second mounting location requires special instructions. See pg. 6 for more information.

Figure 6

Step 1 With the threads pointing down, install U-bolt (1) on front OEM boom. Install bracket assembly (2) and the nuts onto the front OEM boom.

Bag AA

Step 2 With the threads pointing down, install U-bolt (3) over the rear OEM boom. Install bracket assembly (4) and nuts onto the rear OEM boom.

Bag EE

Step 3 Install extension tube (5) into bracket assemblies (2) and (4).

Step 4 Install 360 Y-DROP boom bracket (6) onto extension tube (5).

Bag BB

Step 5 Install set screw (7).

Hardware Kit A within Bag BB

Figure 7

Step 6 Install set screws (8).

P/N 207042 Hardware Kit D
within OEM Boom Bracket Kit

Step 7 Install stop bolt assemblies (9) at the front and rear of the extension tube.

Hardware Kit B within Bag BB

Repeat Steps 1-7 for the remaining sprayer mount packages.

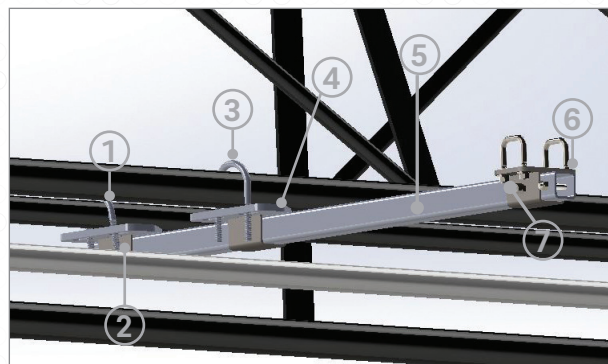


Figure 6

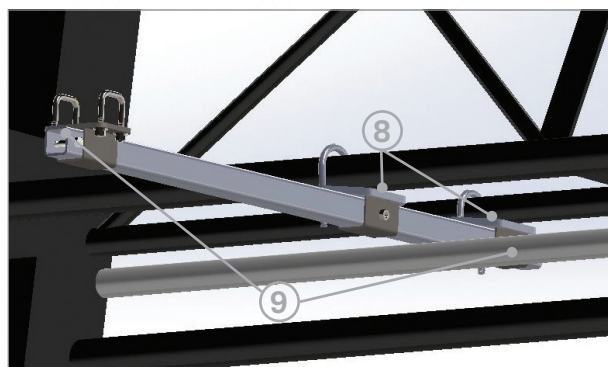


Figure 7

III.

SPECIAL INSTRUCTIONS FOR SECOND MOUNTING LOCATION

NOTE: Below are the special mounting instructions for the second mounting location on each primary boom.

Figure 8

Step 1 With the threads pointing down, install U-bolt (1) on front OEM boom. Install bracket assembly (2) and the nuts onto the front OEM boom.

Bag AA

Step 2 Install extension tube (3) into bracket assembly (2).

NOTE: The extension tube should not be installed past the inner OEM boom to allow clearance for the OEM primary booms to cradle.

Step 3 Install 360 Y-DROP boom bracket (4) onto extension tube (3).

Bag BB

Step 4 Install set screw (5).

Hardware Kit A within Bag BB

Figure 9

Step 5 Install set screw and jam nut (6) onto the OEM boom bracket.

P/N 207042 Hardware Kit D
within OEM Boom Bracket Kit

Step 6 Install stop bolt assemblies (7) at the front and rear of the extension tube.

Hardware Kit B within Bag BB

Step 7 With the U-bolt pointing to the rear, install the yoke mount (8) and flange nuts to upper boom section.

Step 8 With the square U-bolt threads pointing down and using the extra thick washer and Nylock nut, install yoke mount (9) to the 360 Y-DROP boom section.

Step 3 Using pins, install the yoke straps (10) between the upper boom and 360 Y-DROP boom. Using the flange nuts, tighten the 1-1/4" carriage bolts.

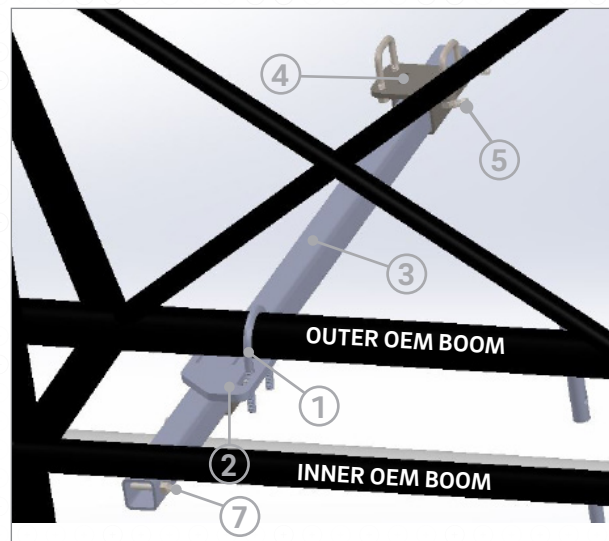


Figure 8



Figure 9

IV.

INSTALL CENTER SECTION
SQUARE TUBE

Figure 10

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

Step 2 Install bracket assemblies (3).

Figure 11

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 12

Step 7 Install set screw (1) on Y-DROP boom bracket.

Hardware Kit D within the Center Section Kit

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

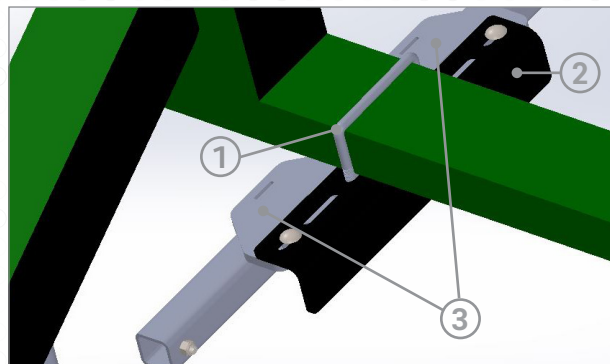


Figure 10

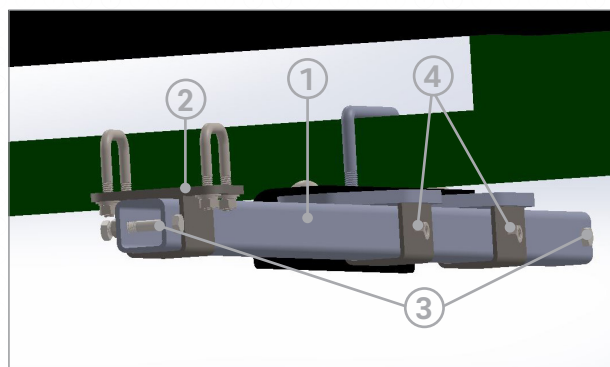


Figure 11

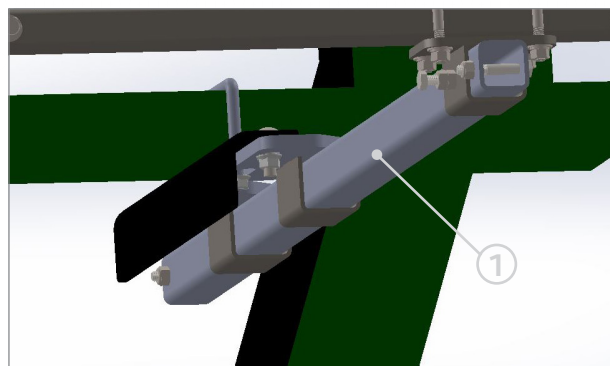


Figure 12

V.

INSTALL 360 Y-DROP
BOOM

Figure 13

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 14

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 15 and 16

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 16 for detail. Repeat for the remaining mount assemblies on the primary boom.

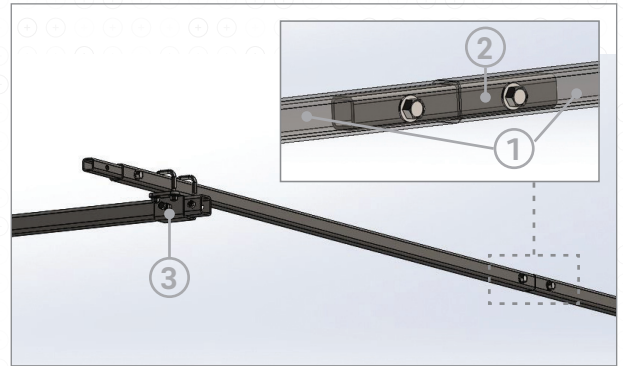


Figure 13



Figure 14

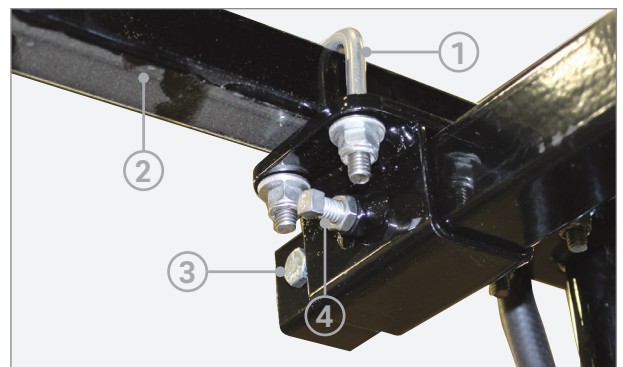


Figure 15

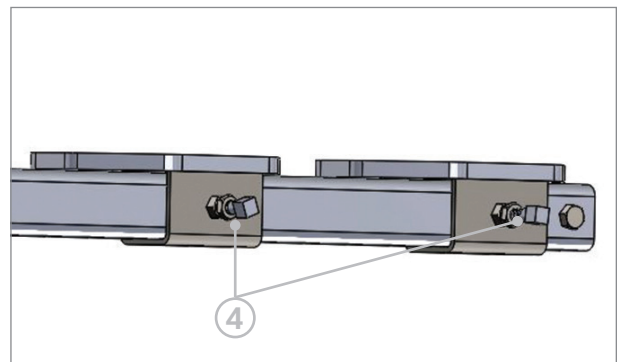


Figure 16

VI. INSTALL BREAKAWAY ASSEMBLY - ONE PIECE

Figure 17

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 18

Figure 18 may show more or fewer mounts than your installation. The alignment and quantity of the mounts will depend on your row spacing.

Figure 19

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.

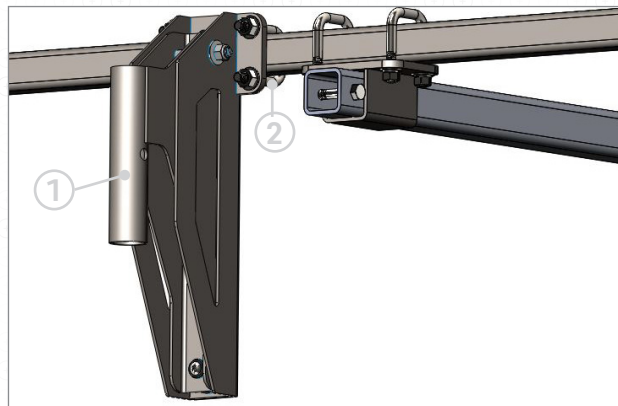


Figure 17



Figure 18

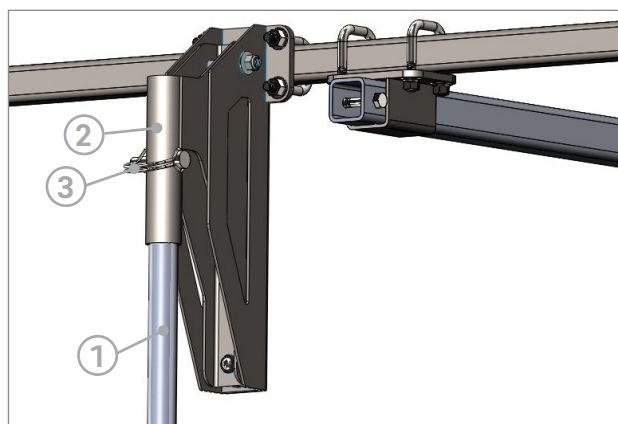


Figure 19

VI.

**INSTALL RISER MOUNTS WITHOUT
BREAKAWAY ASSEMBLIES (OPTIONAL)**

Figure 20

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 21

Figure 21 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 22

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.

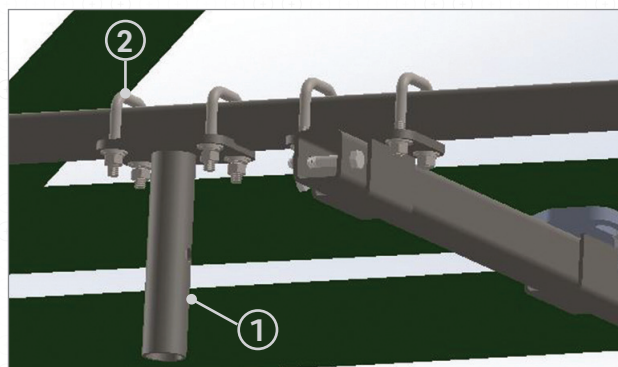


Figure 20



Figure 21

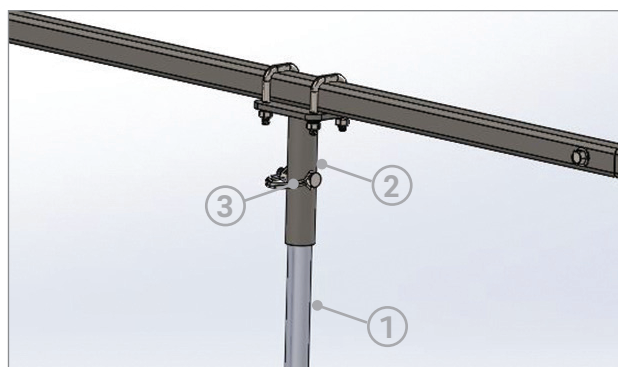


Figure 22

VII.

INSTALL SHIELDS AND
RISER HOSES

Figure 23

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

Figure 24

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

Figure 25

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

Figure 26

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

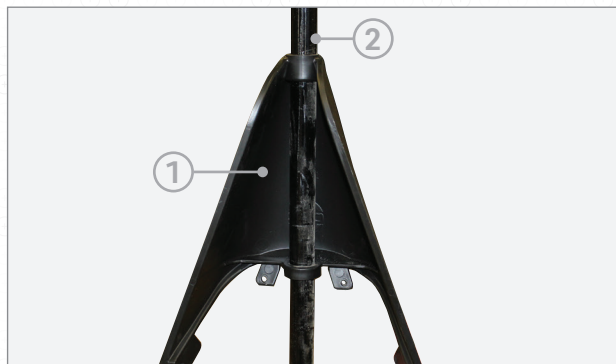


Figure 23

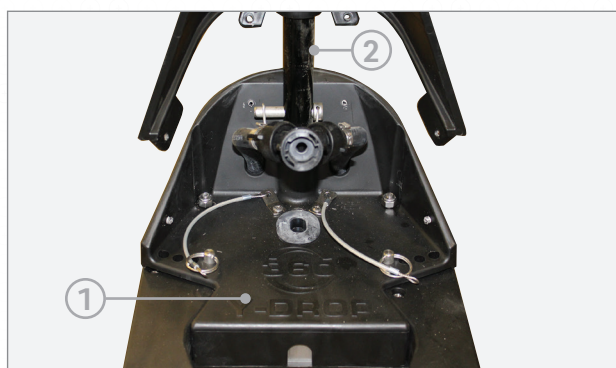


Figure 24

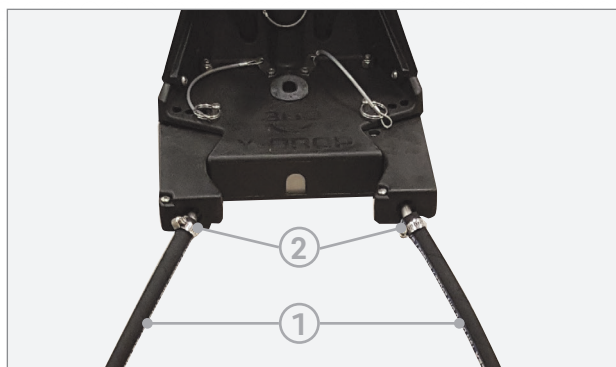


Figure 25



Figure 26

VII. INSTALL SHIELDS AND RISER HOSES *(CONTINUED)*

Figure 27



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 28

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

Figure 29

Step 9 Route riser hose assembly (1) as shown in Figure 26.

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.

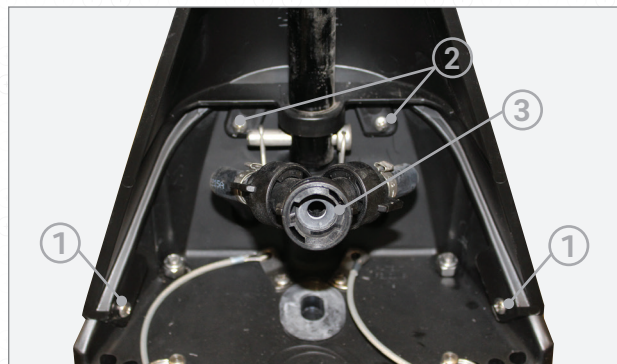


Figure 27

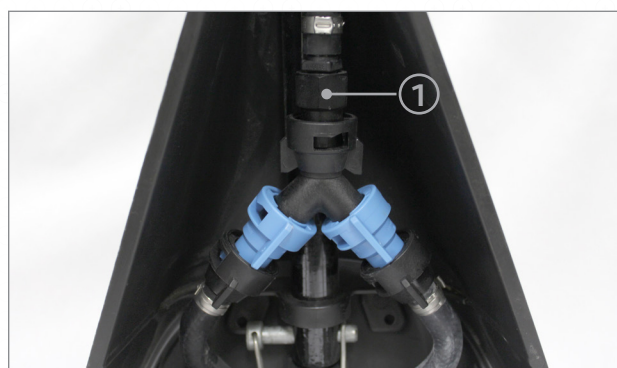


Figure 28

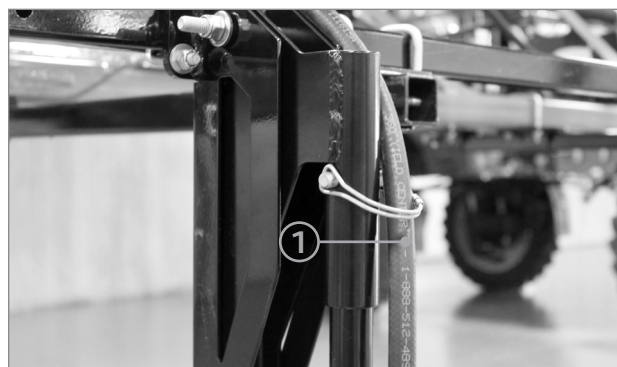


Figure 29

+ INSTALLATION COMPLETE.

