



INSTRUCTIONS
360 Y-DROP[®]
SQUARE TUBE UPGRADE

JOHN DEERE 4930/4940



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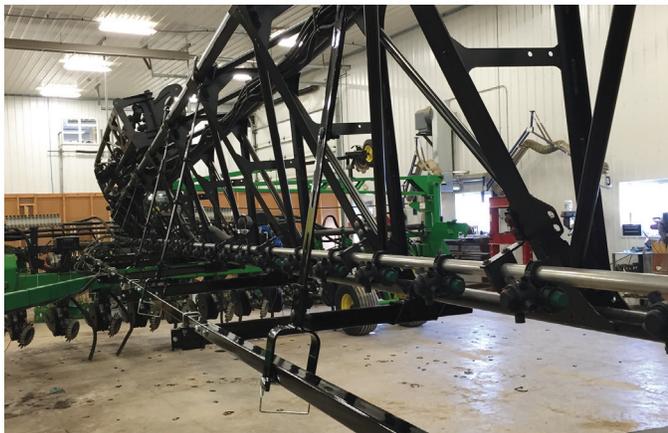


Figure 1 Before upgrade



Figure 2 Upgrade completed

⊕ 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. REMOVE RISER TUBE ASSEMBLIES

Follow these steps to remove each riser tube assembly:

Figure 3

Step 1 Remove pin (1).

Step 2 Remove riser tube assembly (2).

Repeat Steps 1-2 for all riser tube assemblies.

Retain riser tube assemblies for later reinstallation.



Figure 3



Figure 4

II. INSTALL MOUNT ASSEMBLIES ON THE OEM PRIMARY BOOM

NOTE: Replace one Z-bar assembly at a time. The square tube upgrade mount assemblies will be installed in the same location.

Figure 4

Step 1 Remove U-bolt (1).

Figure 5

Step 2 Remove pins (1) and yoke strap assembly (2). Repeat for remaining yoke strap assemblies.

NOTE: These yoke strap assemblies will not be used for the square tube upgrade and may be discarded.



Figure 5

II.

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

Figure 6

Step 3 Remove the four nuts (1), 4" plate (2), Z-bar (3) and bracket assembly (4). Repeat for the remaining mount assemblies on the OEM primary boom.

Figure 7

Step 4 With the threads pointing up, install U-bolt (1) on the bottom side of the OEM primary boom.

Bag AA

Step 5 Install bracket assembly (2) and flange lock nut (3).

Hardware Kit D

Step 6 Install extension tube (4).

Step 7 Install boom bracket (5) onto the extension tube.

Step 8 Install stop bolts (6) at both the front and the rear of the extension tube.

Hardware Kit B

Figure 8

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

Hardware Kit D

Repeat Steps 1-9 the remaining mount assemblies on the OEM primary boom.

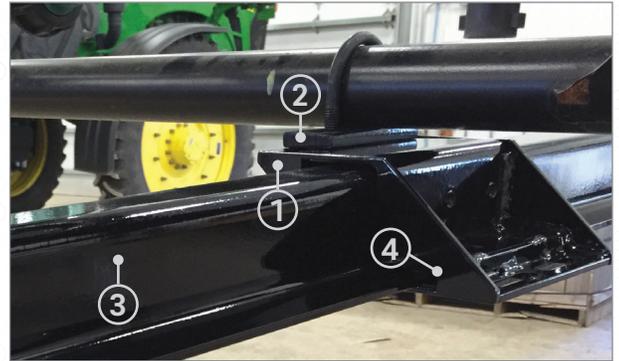


Figure 6

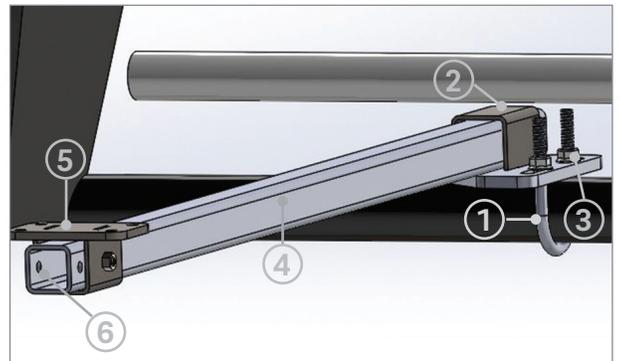


Figure 7



Figure 8

II.

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

Figures 9 and 10

- Step 10** With the U-bolt pointing to the rear, install the yoke mount (1) and flange nuts to upper boom section.
- Step 11** 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 12** 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 10-12 for the remaining yokes on the OEM primary booms. Yokes should be spaced approximately 60" ($\pm 5"$) apart.



Figure 9



Figure 10

III.

INSTALL CENTER SECTION
SQUARE TUBE UPGRADE

In preparation for the center section installation:

Figure 11

- Step 1** Remove pin (1).
- Step 2** Remove riser tube assembly (2).
- Step 3** Remove U-bolt (3).

Repeat Steps 1-3 for the remaining riser tube assemblies.



CAUTION: The 360 Y-DROP system's boom assembly may weigh up to 60 pounds (27 kg). Exercise caution.

- Step 4** Use a suitable lifting device to remove the 360 Y-DROP system's boom assembly (4).

Figure 12

- Step 5** Remove nuts (5) and lower Z-bar assembly (6) and plate (7) for each center section Z-bar assembly.

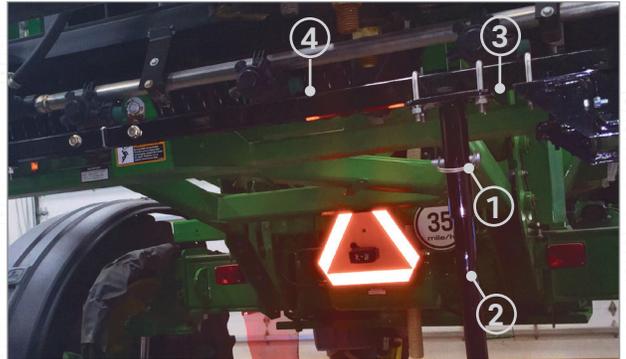


Figure 11

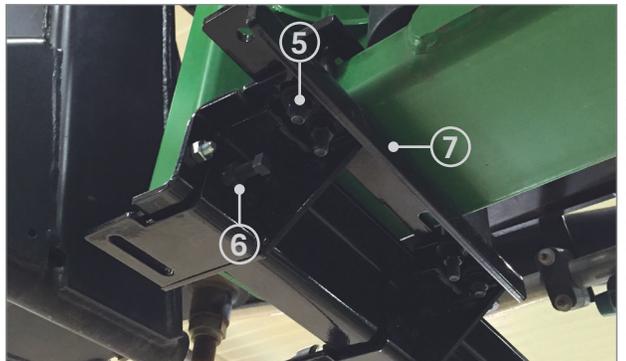


Figure 12

III.

INSTALL CENTER SECTION
SQUARE TUBE UPGRADE *(continued)*

Figure 13

Step 6 Install 8" top plate (1) and 14" top plate (2) using the supplied hardware.

Step 7 Install bracket assemblies (3).

Figure 14

Step 8 Install extension tube (1).

Step 9 Install 360 Y-DROP boom bracket (2) on extension tube (1).

Bag BB

Step 10 Install stop bolt assemblies (3).

Hardware Kit B within Bag BB

Figure 15



CAUTION: The 360 Y-DROP system's boom assembly may weigh up to 60 pounds (27 kg). Exercise caution.

Step 11 Use a suitable lifting device to install the 360 Y-DROP system's boom assembly (1).

Step 12 For all U-bolt assemblies, install U-bolts (2) with the threads pointing down and attach the washers and nuts.

Hardware Kit A within Bag BB

Figure 16

Step 13 Install set screw (1) and stop bolt assemblies (2).

Hardware Kit D within the Center Section Kit

Repeat steps 6-13 for the remainder of the center section square tube.

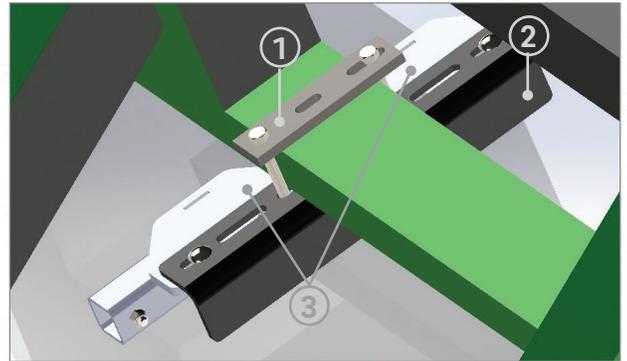


Figure 13

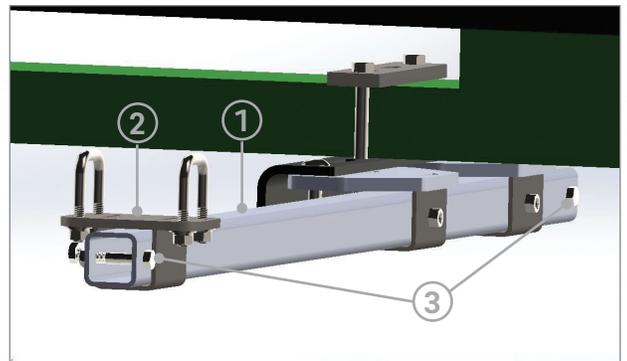


Figure 14

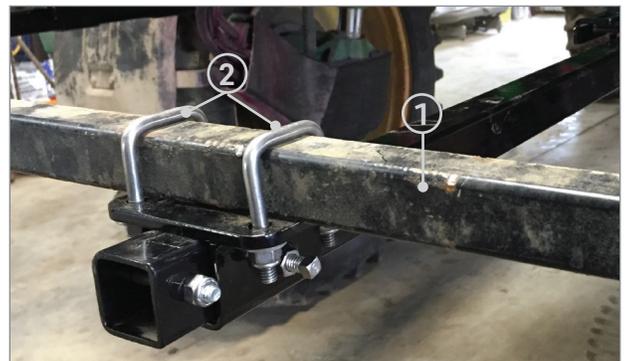


Figure 15

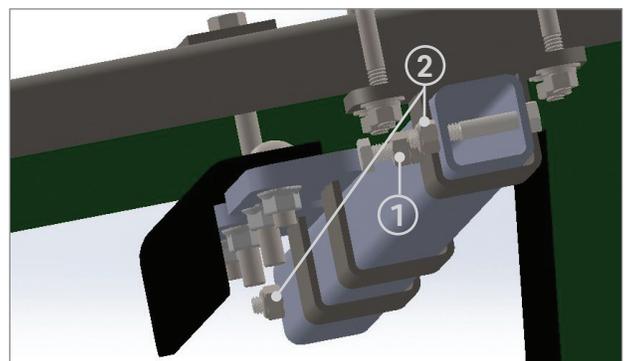


Figure 16

IV.

INSTALL PRIMARY BOOM
RISER TUBE ASSEMBLIES

For each riser tube assembly on the OEM primary boom:

Figure 17

- Step 1** Install 6" extension (2) onto the primary boom.
- Step 2** Reinstall pin (1) from the original riser tube assembly.
- Step 3** Install riser extension connector (4).
- Step 4** Install 3/8" x 1-3/4" bolt assembly (3) with the flange nut.
- Step 5** Reinstall riser tube assembly (6) from the original 360 Y-DROP.
- Step 6** Install 3/8" x 1-3/4" bolt assembly (5) with the flange nut.
- Step 7** Confirm that the riser mounts are still aligned correctly. From the center of machine, measure appropriate distance, based on row spacing, and tighten U-bolts on riser mount brackets. Quantity and spacing will depend on your system configuration and application profile.

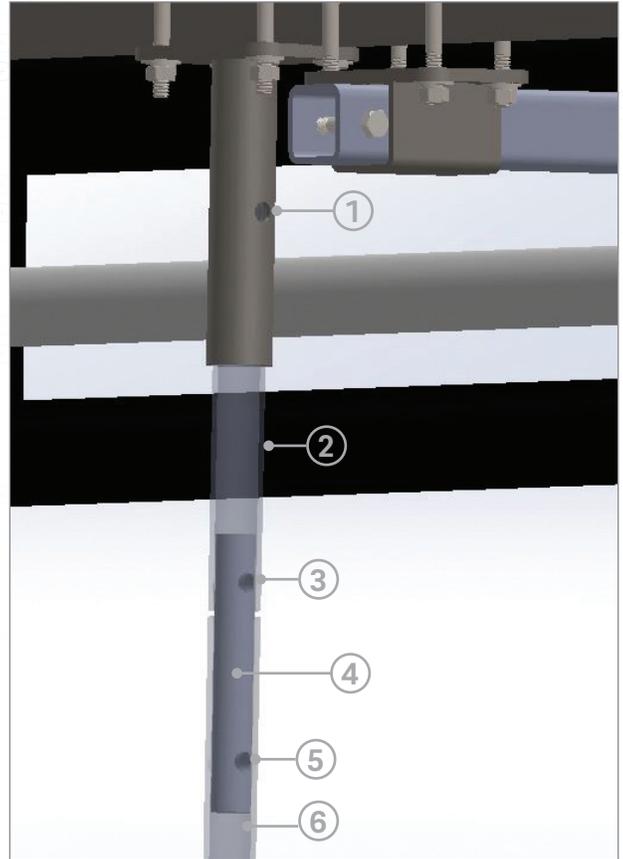


Figure 17

⊕ INSTALLATION COMPLETE.

