

# Pump Stack

**Pumpstack Mounting Bracket Installation**

Precision Planting®

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## Introduction

This guide will cover the installation of the various mounts available for the Precision Planting Pumpstack system. For general installation considerations please see the Installation and Operation and Maintenance document for Pumpstack available on the Precision Planting Support Cloud.

The Precision Planting Pumpstack is available in three different sizes. The available space needed for mounting each size of Pumpstack can be found on the chart below.

|                                      | PP21         | PP31         | PP48      |
|--------------------------------------|--------------|--------------|-----------|
| Overall length w/<br>motor installed | 27"          | 30"          | 26"       |
| Overall width                        | 21"          | 22.5"        | 19"       |
| Overall height                       | 23.5"        | 23.5"        | 30.5"     |
| Base dimensions                      | 11" x 10.25" | 11" x 10.25" | 14" x 11" |

### Tools needed for installation

- 17mm wrench or socket
- 18mm or 11/16" wrench or socket
- 19mm or 3/4" wrench or socket
- 22mm or 7/8" wrench or socket
- 24mm or 15/16" wrench or socket

## 724629 — 7"x7" bar mount installation

Allows for installation directly onto a standard 7"x7" toolbar.

### Step 1:

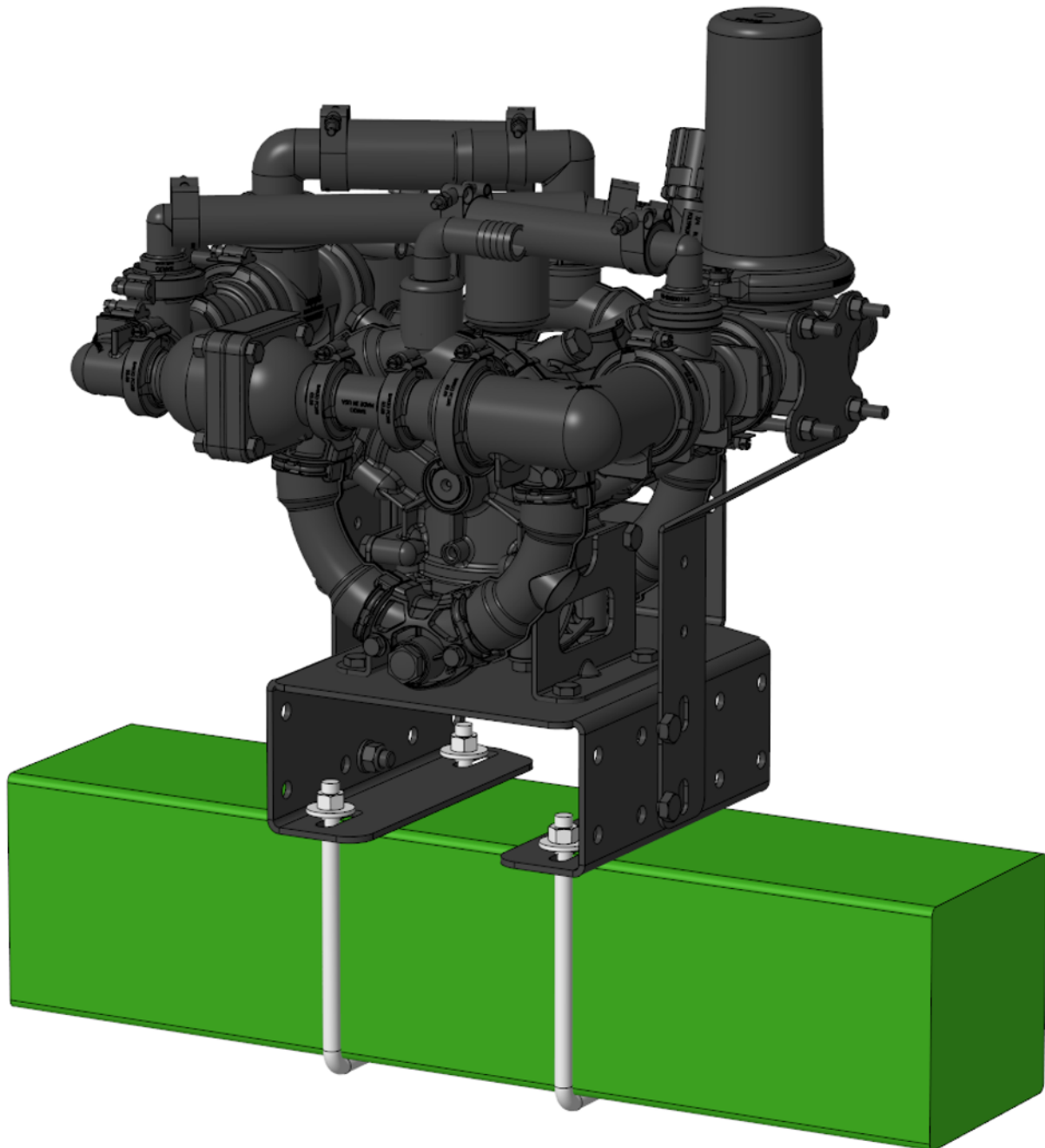
Find a location with suitable space for the pumpstack to mount on a 7" x 7" bar.

### Step 2:

Place Pumpstack on the bar with inlet and outlet oriented in the direction needed for the inlet and outlet plumbing.

### Step 3:

Use the U-bolts, washers, and nuts to secure the Pumpstack to the bar.



## 724720 JD CCS mount installation

Allows for installation on John Deere CCS planters when there is NOT an air compressor behind the CCS tank, when the air compressor can be relocated, or when the air compressor is not used and can be removed.

Ensure that the CCS frame has these tabs available and that the outer spacing of the tabs is roughly 11-1/2" wide. (This kit will not fit planters with ~18" spacing between the tabs.)



### Assembly instructions

#### Step 1:

Use hardware kit 724722. Hang the mounting bracket onto the tabs on the CCS frame using the (longer) M12 x 35mm bolts with the washer on the head side of the bolt. The serrated flange locknut is on the other side. Finger-tighten only! Do not fully tighten the hardware at this time.



**Step 2:**

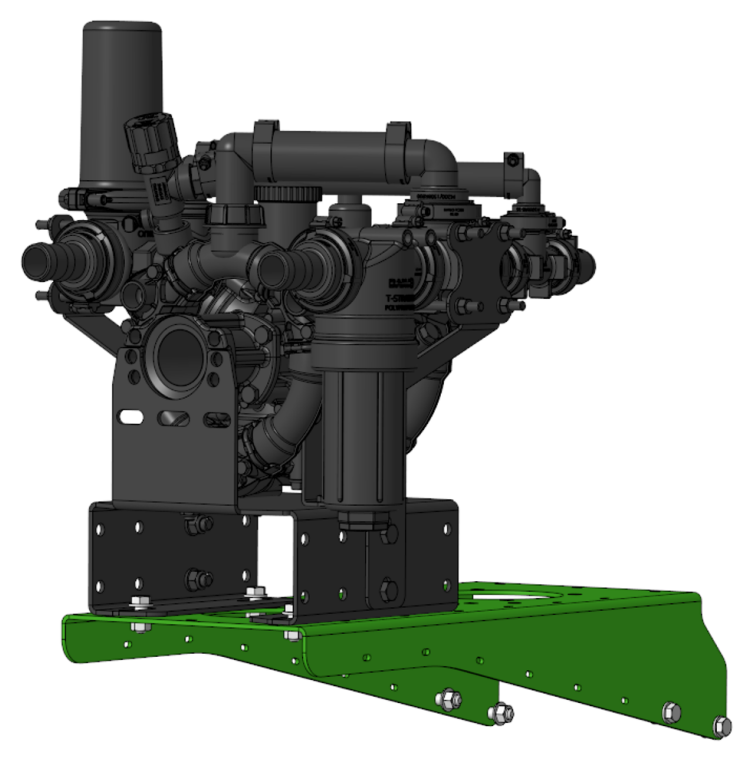
Pivot the bracket upward and loosely install the remaining M12 x 35mm bolts with washer on the head side of the bolt and serrated flange nut on the other side. Do not fully tighten the hardware at this point.

**Step 3:**

Position the bracket so that when the planter is lowered into the planting position the pump will sit level. Tighten the hardware.

**Step 4:**

Install the pump on the mounting bracket using the hardware kit 724725 with the (shorter) M12 x 30mm bolts, washer on the bolt head and serrated flange nut on the other side. Tighten the hardware.



## 724750 — Universal High Mount Installation

This is a universal kit that places the Pumpstack upward (and back) of the 7x7" or 6x4" bar.

This kit is commonly used on the following planters.

- John Deere DB Planters; Mounted to the 6"x 4" bar behind the CCS tanks.
- John Deere 1790 20"-spacing Planters; Mounted above the rear transport wheels.
- John Deere 1720/1725 Planters without CCS; Mounted between row units.
- John Deere 1720C/1725C (55-bushel CCS) Planters; Mounted between row units.
- Other brands/models of planters where you desire to mount the pump between row units.

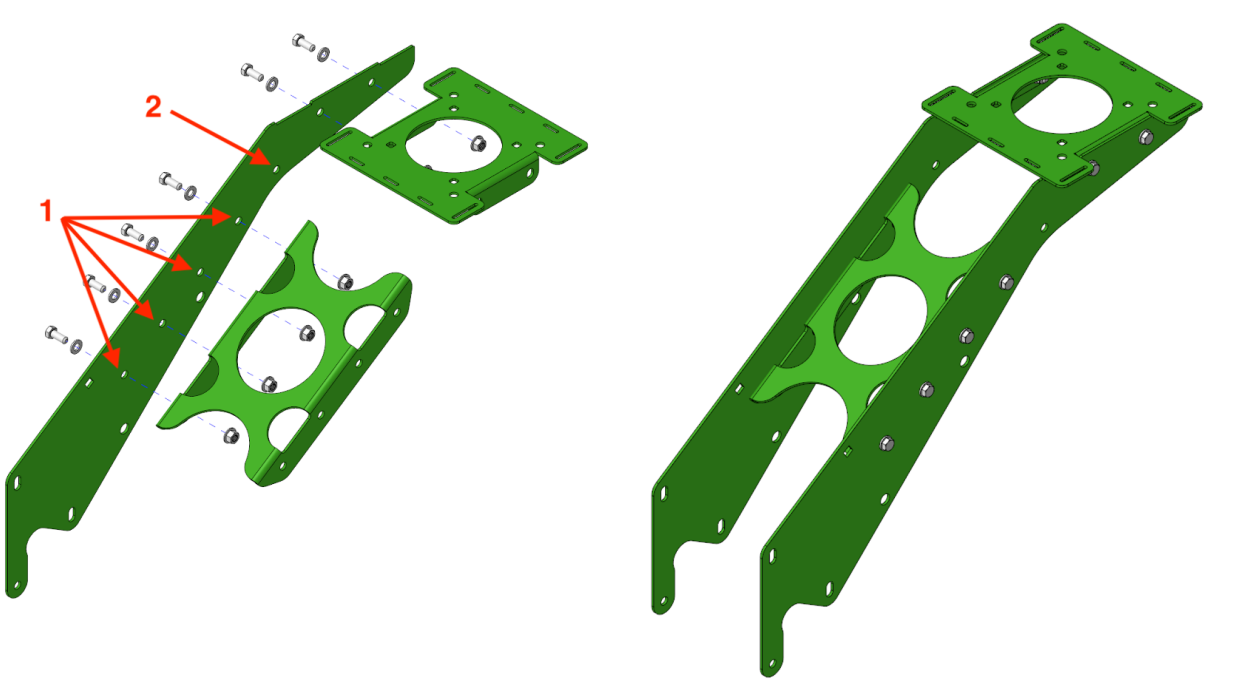
### Assembly Instructions

#### Step 1:

Use hardware kit 724744. The M12 x 30mm bolts should have the washer installed at the head of the bolt and the serrated flange nut on the other side. Assemble the bracket side plates, tie plate and mounting plate, leaving the hardware loose.

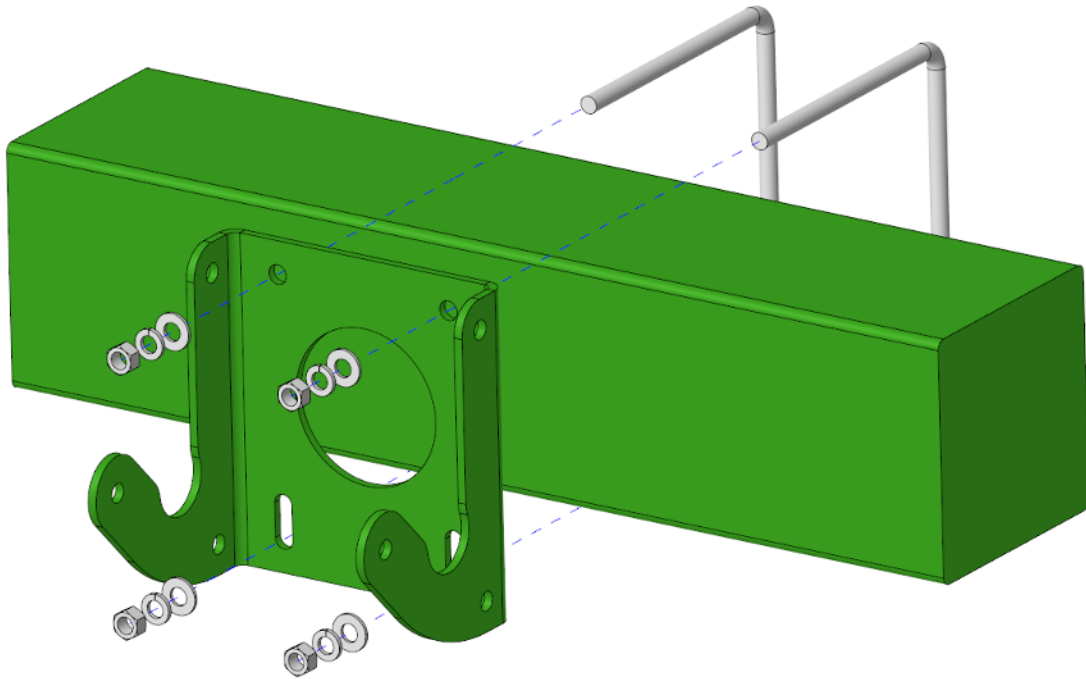
The tie plate should be assembled in the LOWER four holes (1). Do not use the hole marked (2) below.

ALTERNATE INSTALLATION METHOD: If you are working alone, it is easier to complete steps 2 and 3 prior to step 1.



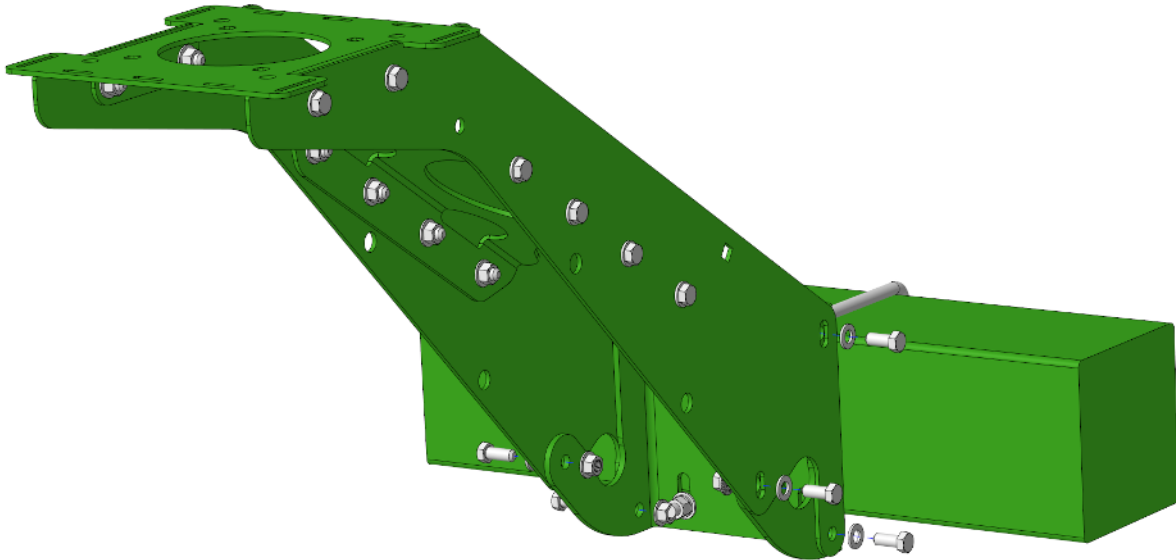
**Step 2:**

Use hardware kit 724746. Loosely install the Mounting Adapter Bracket to the toolbar using the U-bolts, ½" washer, lock washers, and nuts. (7x7 bar installation shown below, 6x4 bar similar.)



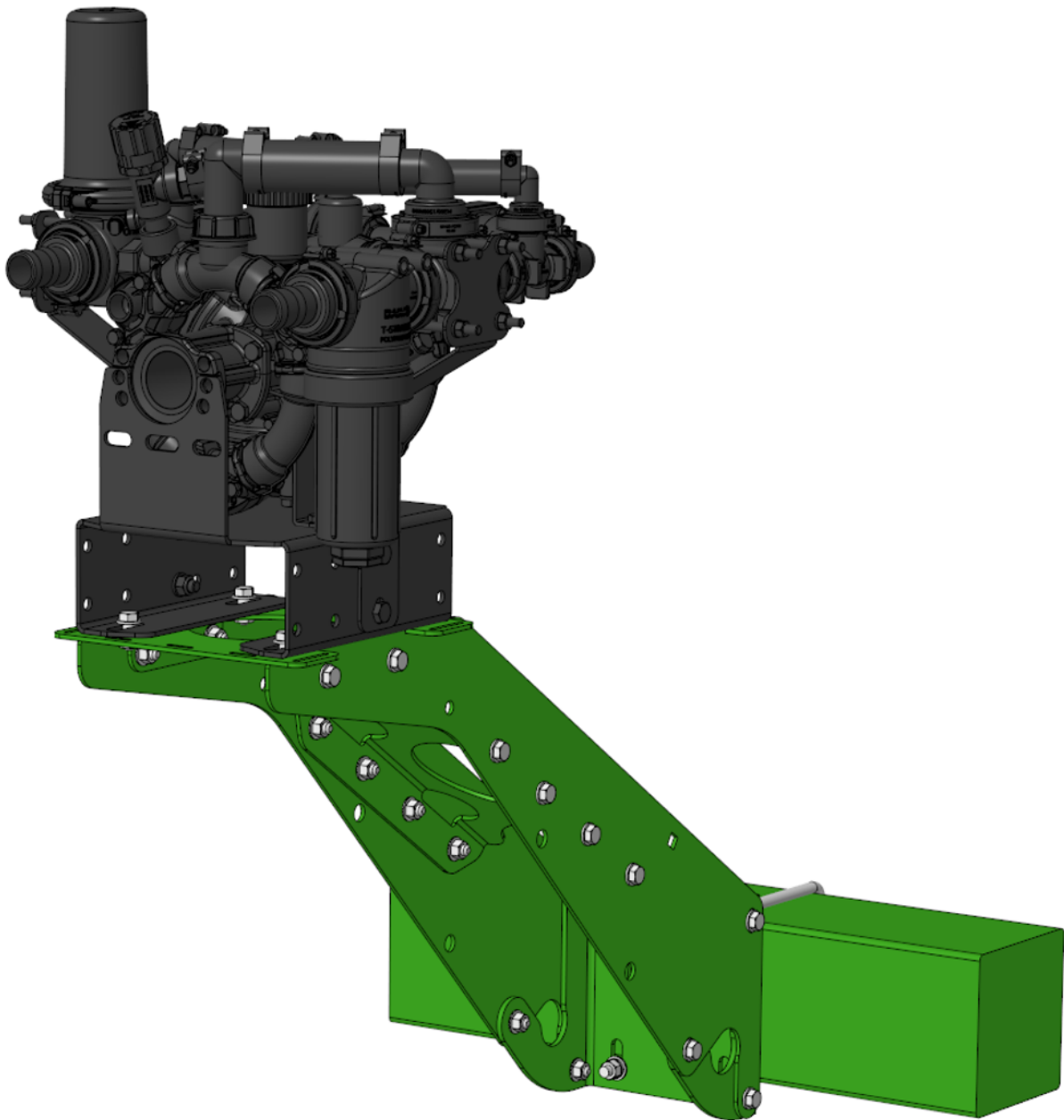
**Step 3:**

Use hardware kit 724746. Loosely install the main mounting bracket subassembly to the adapter bracket using the (6) M12 x 30mm bolts, washer on the head side of the bolts and serrated flange nuts on the other side. When satisfied with placement, tighten all hardware. The pump mounting plate should be level when the planter is in the lowered position.



**Step 4:**

Use hardware kit 724725. Install the pump on the mounting bracket using the (4) M12 x 30mm bolts, washer on the head side of the bolts and serrated flange nuts on the other side. Tighten the hardware.



## 724751 — John Deere 1770NT 24 row planter installation

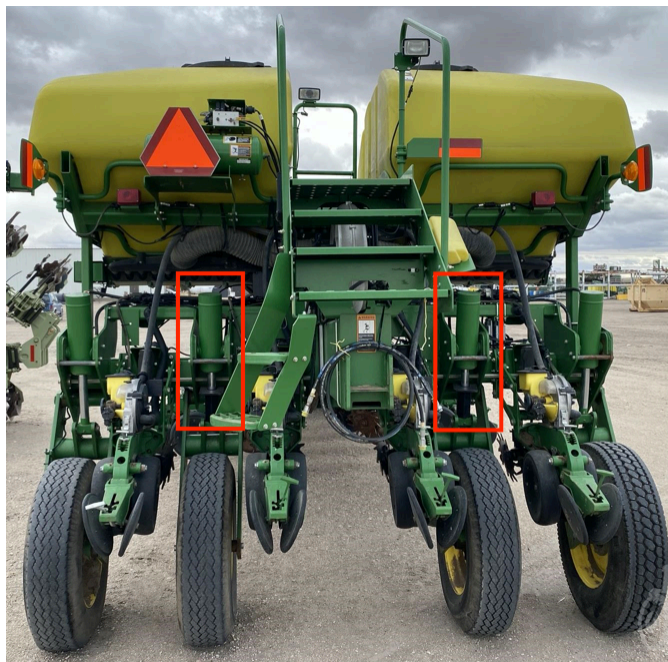
This kit is used for John Deere 1770NT 24-row planters to mount the Pumpstack above one of the two inner rear transport tires.

This kit cannot be installed on the same cylinder as a ground drive system. If the planter has ground drive seeding AND a ground drive fertilizer pump on the inner cylinders, this kit is NOT compatible.

Assembly instructions

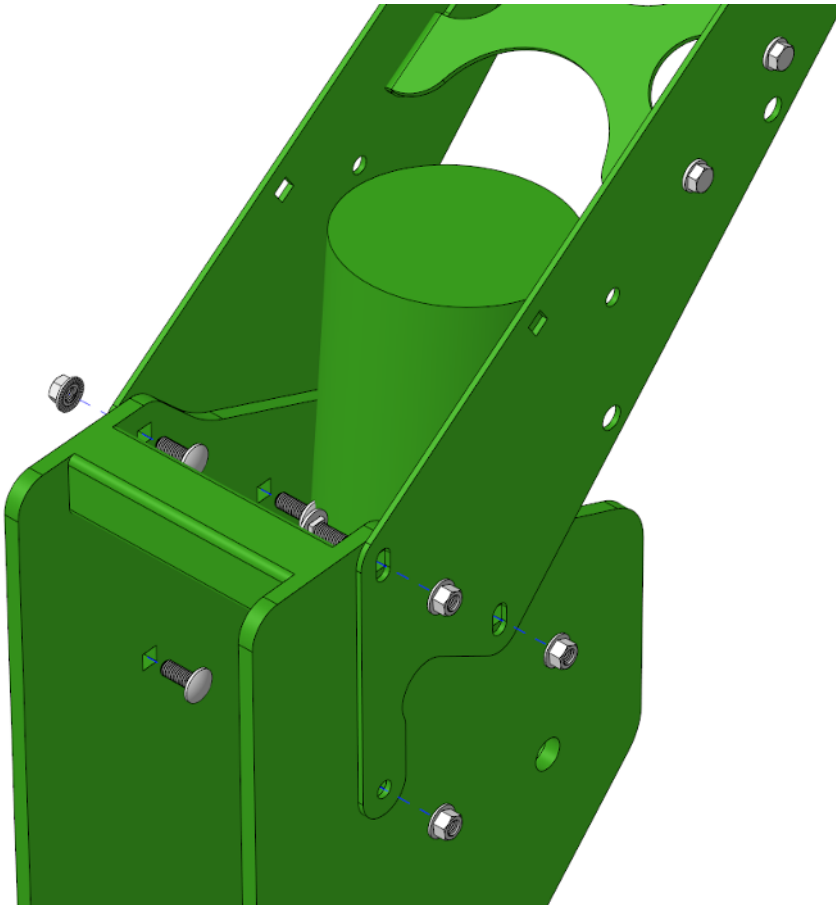
### Step 1:

Choose one of the two inner rear wheel cylinder frames to install the pump mounting bracket. The bracket cannot install on the outer cylinders.



**Step 2:**

Use hardware kit 724748. The M12 x 35mm carriage head bolts and serrated flange nuts are used to loosely install the main mounting brackets to the chosen center wheel cylinder frames.

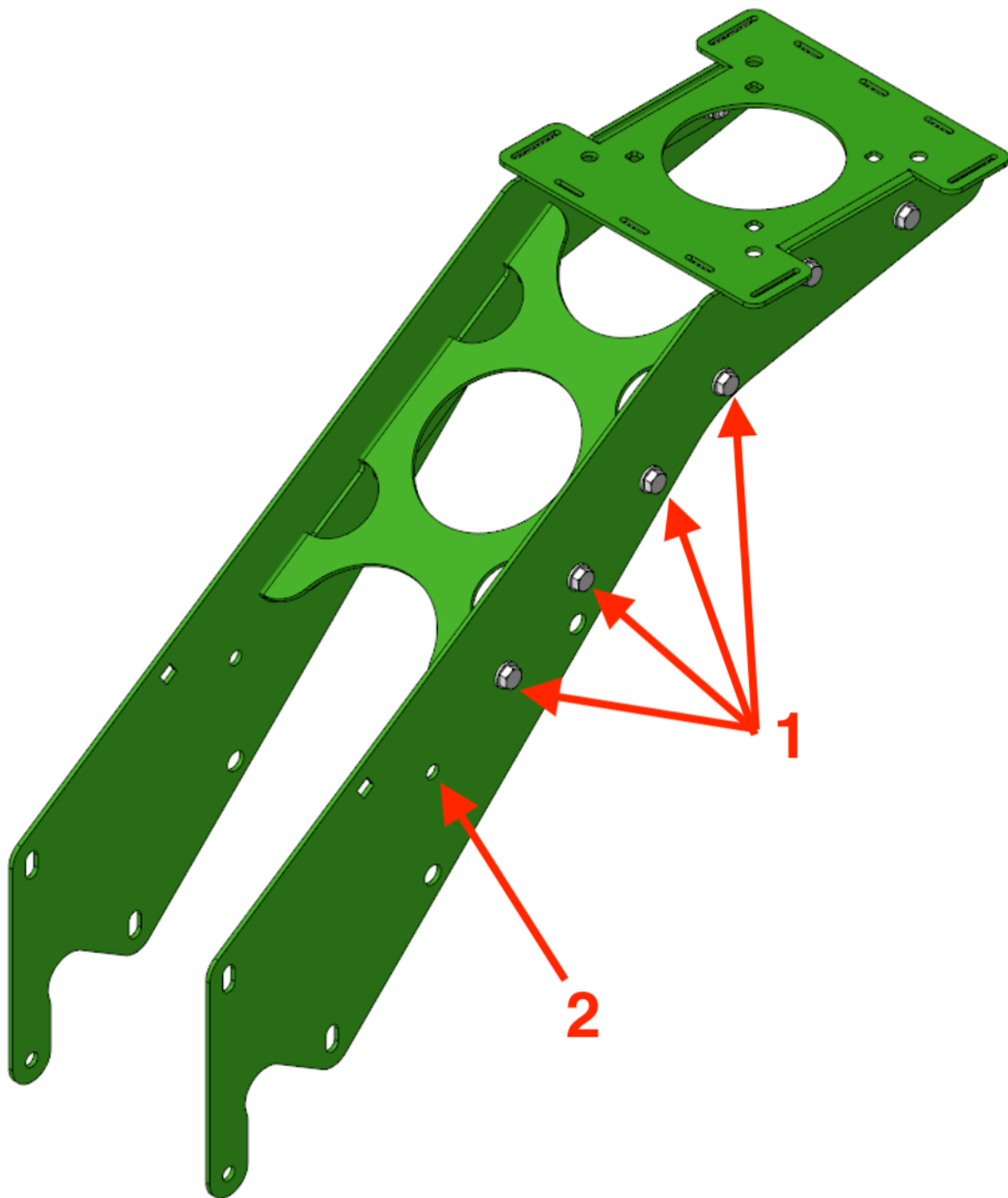


### Step 3:

Use hardware kit 724744. The M12 x 30mm bolts should have the washer installed at the head of the bolt and the serrated flange nut on the other side. Assemble the bracket side plates, tie plate and mounting plate, leaving the hardware loose.

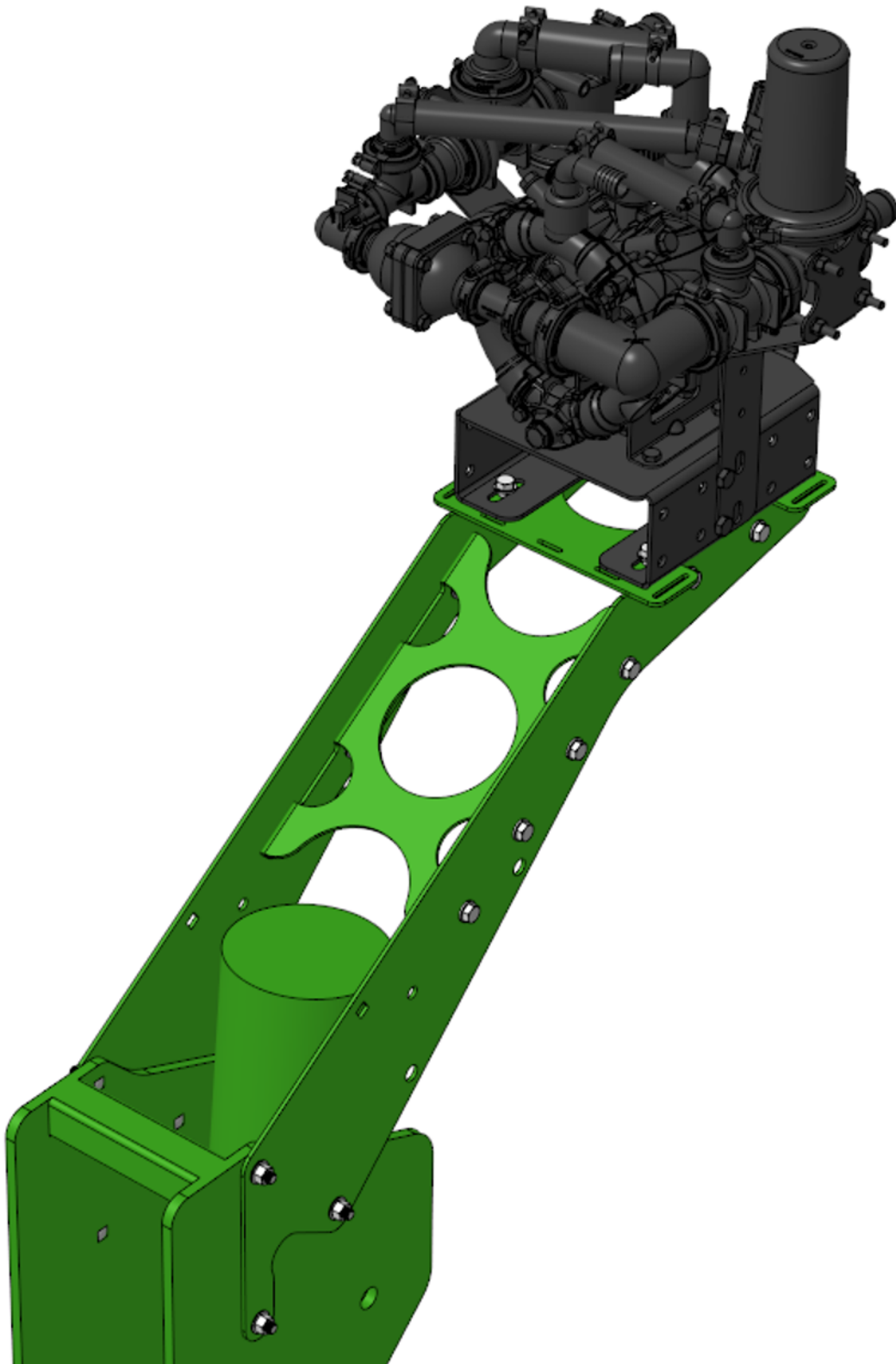
Note: The tie plate should be assembled in the UPPER four holes (1). The lower hole in the bracket (2) should NOT be used.

Level the bracket (with planter bar level) and tighten all hardware.



**Step 4:**

Use hardware kit 724725. Install the pump on the mounting bracket using the M12 x 30mm bolts, washer installed at the head of the bolt and the serrated flange nut on the other side.



## 724752 — John Deere 1770NT 12 row or 16 row Installation

This kit is used for John Deere 1770NT 12 and 16 row planters to mount the Pumpstack above one of the two outer rear transport tires (not on the wings).

This kit cannot be installed on the same cylinder as a ground drive system. If the planter has ground drive seeding AND a ground drive fertilizer pump, this mounting kit is likely NOT compatible.

Assembly instructions

### Step 1:

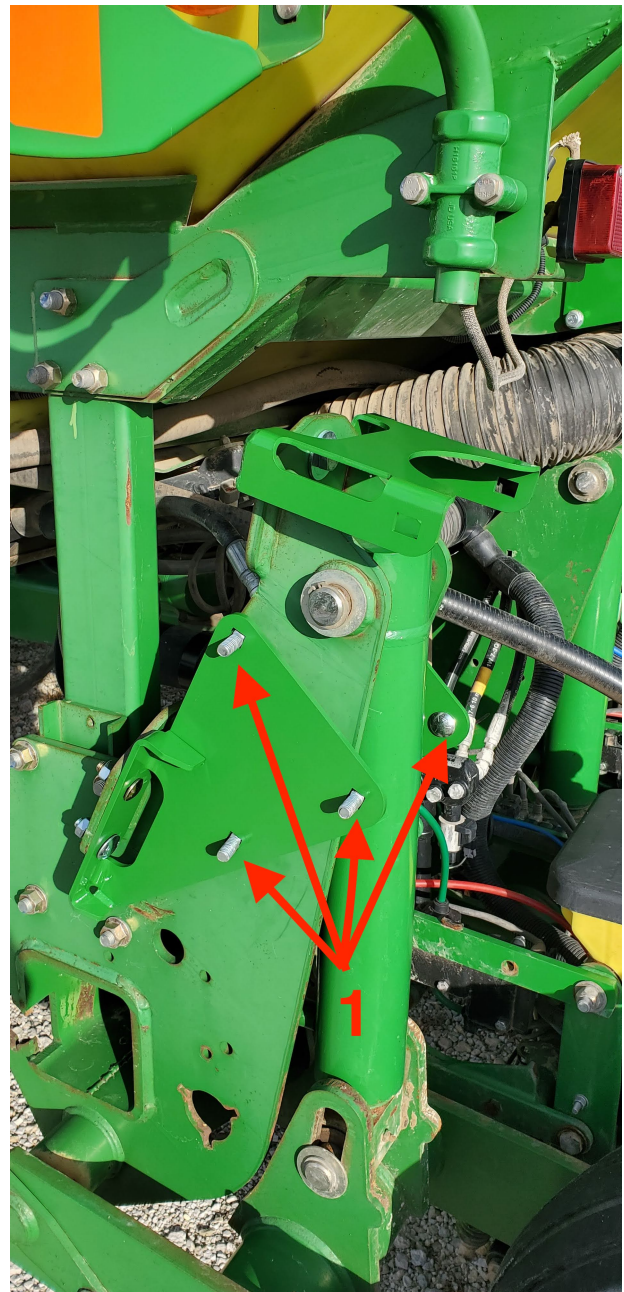
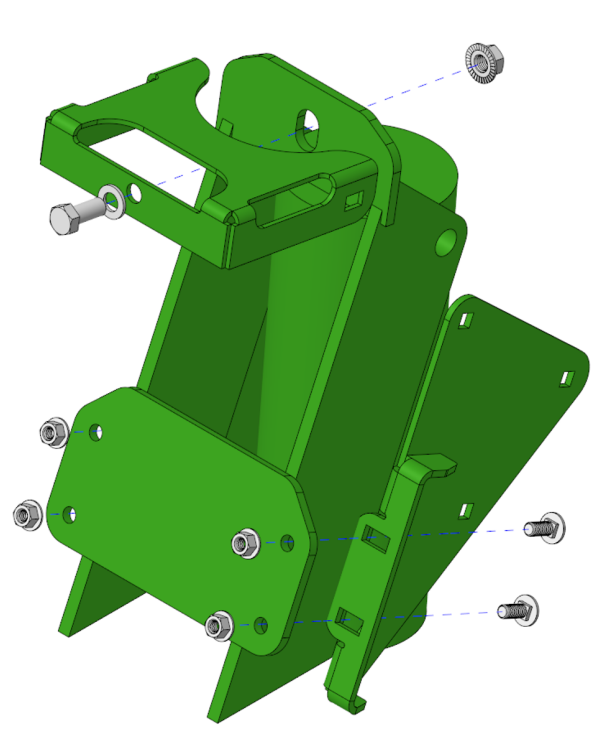
Choose one of the two outer rear wheel cylinder frames to install the pump mounting bracket. The bracket cannot be installed on the inner cylinders.



## Step 2:

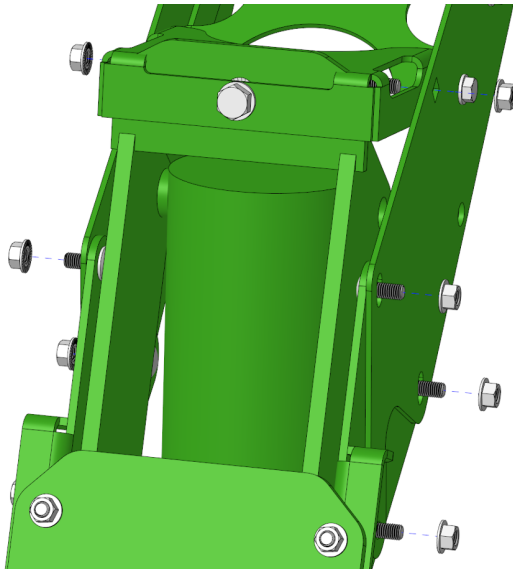
Use hardware kit 724749. Loosely install the adapter brackets to one of the outer wheel support frames as shown below. The M12 x 35mm carriage bolts and serrated nuts are used for the lower (4) holes and the M16 x 40mm (larger) bolt, washer and serrated nut is used for the upper bracket.

Note: It can be helpful to install the (6) carriage bolts used in the next step PRIOR to installation of the lower brackets on the planter. See (1) in the below picture.



### Step 3:

Use the 724748 hardware kit with (8) M12 x 35mm carriage bolts and serrated nuts. Loosely install the main mounting brackets to the adapter brackets.

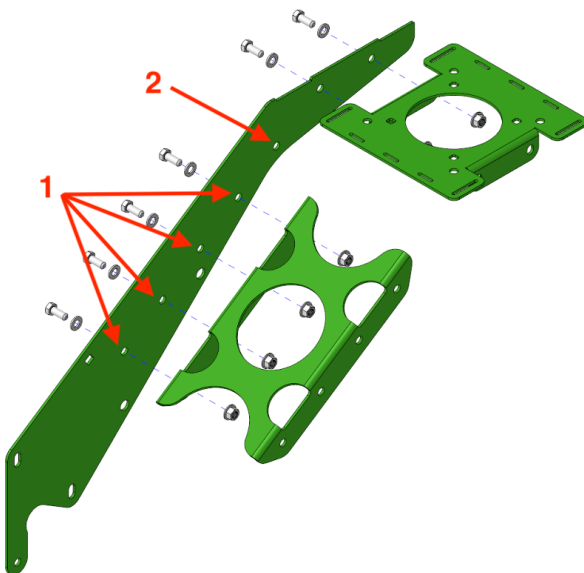


### Step 4:

Use hardware kit 724744. The M12 x 30mm bolts should have the washer installed at the head of the bolt and the serrated flange nut on the other side. Assemble the bracket side plates, tie plate and mounting plate, leaving the hardware loose.

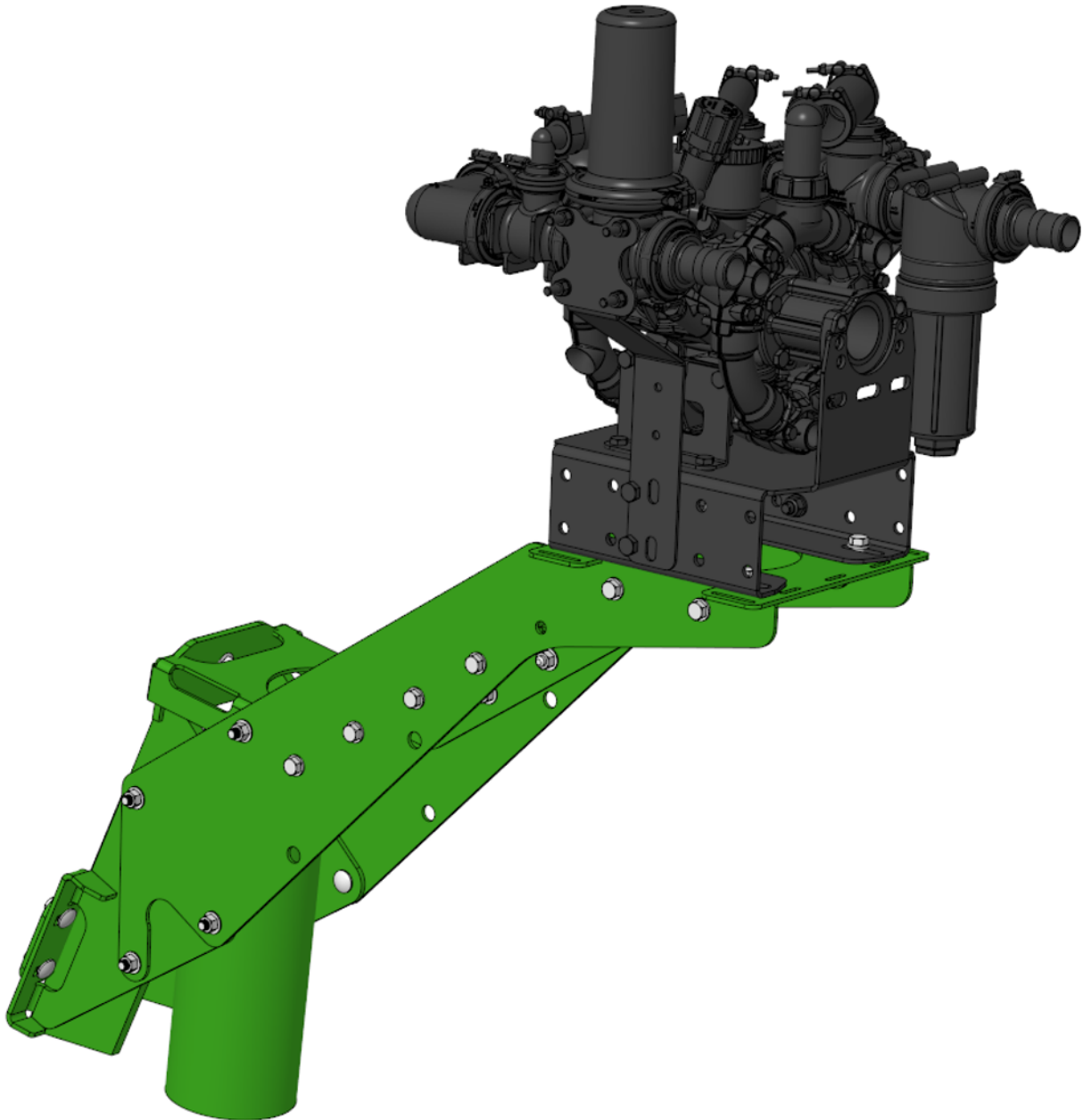
The tie plate should be assembled in the LOWER four holes (1). Do not use the hole marked (2) below.

Once all components are assembled, level the mounting plate (with bar level) and tighten all hardware.



**Step 5:**

Use hardware kit 724725. Install the pump on the mounting bracket using the M12 x 30mm bolts with the washer installed at the head of the bolt and the serrated flange nut on the other side.

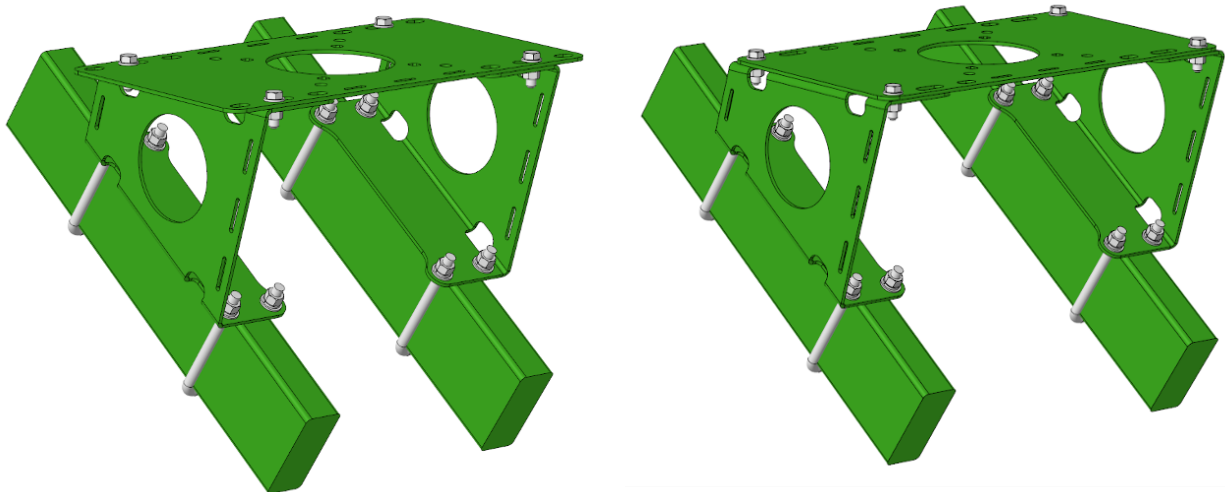


## 724753 — John Deere 1790 (15” planter only) Installation

This kit is used on the John Deere 1790 15” planter to mount the pump over the center rows of the planter. It will mount to the bars that come down at an angle to hold the rear rows. You can choose which bars to mount the pump to and which side of the planter.



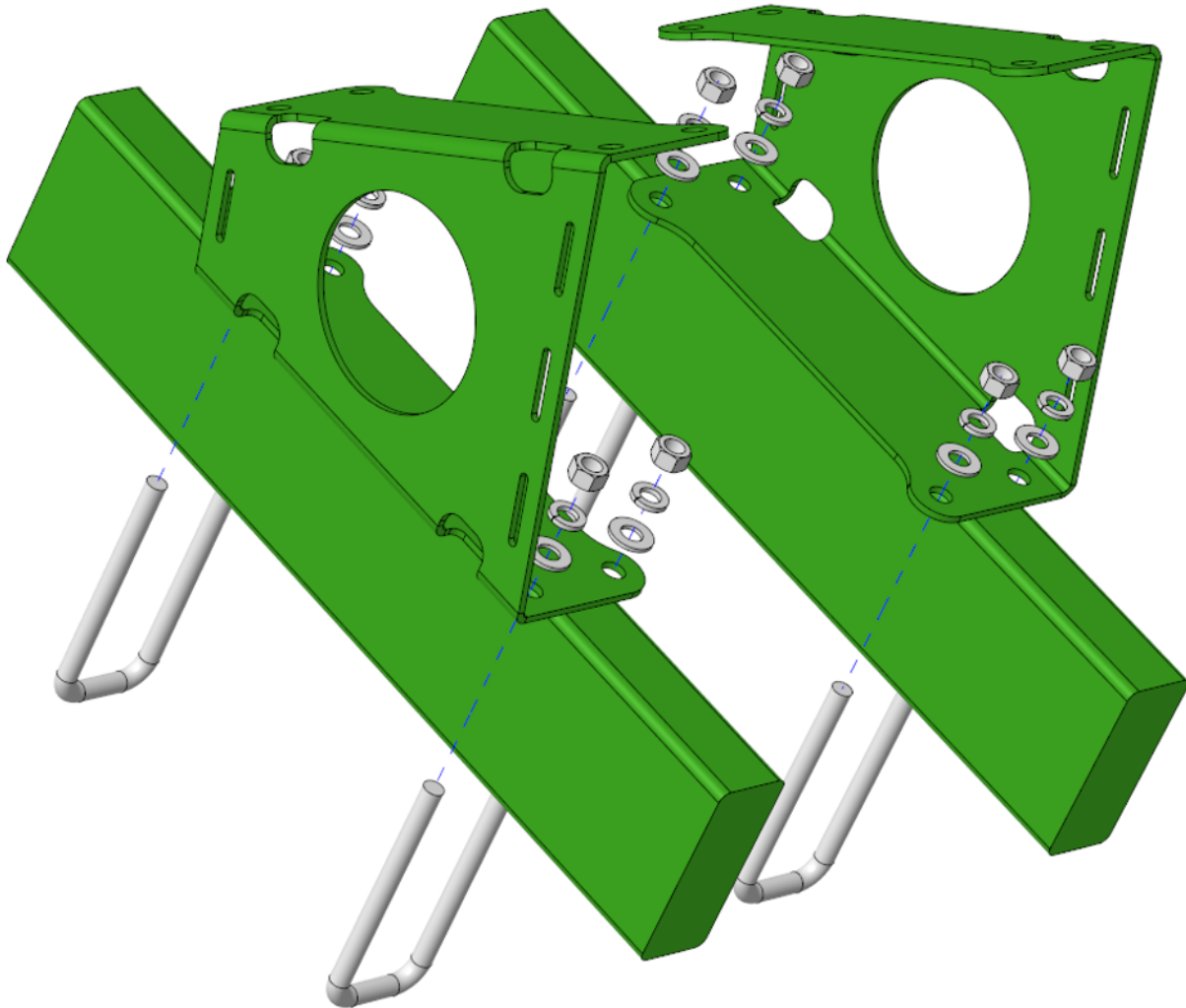
The mounting bracket can be installed in several configurations; the standard narrow (left) and wide (right) configurations are shown below. (The brackets can also be reversed as desired or required, changing the direction the “C” faces.) Determine the mounting location on the planter to determine the configuration of the mount.



Assembly Instructions

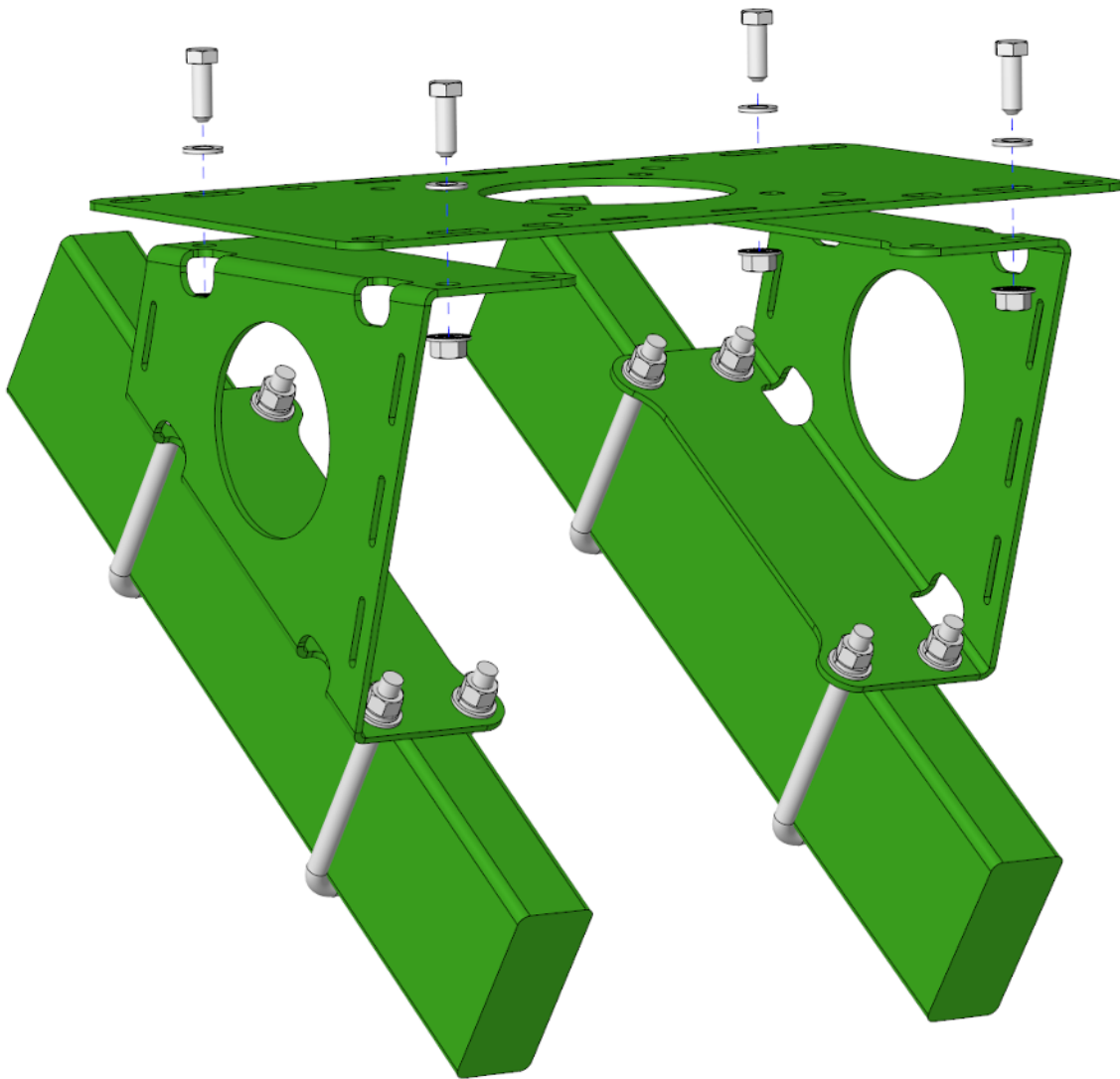
**Step 1:**

Use hardware kit 724758. Install the support brackets on two of the three available 2" x 5" support beams on a single side of the planter. Attach with the 2"x5" U-bolts, ½" washer, lock washers and nuts. Do not tighten the hardware at this time.



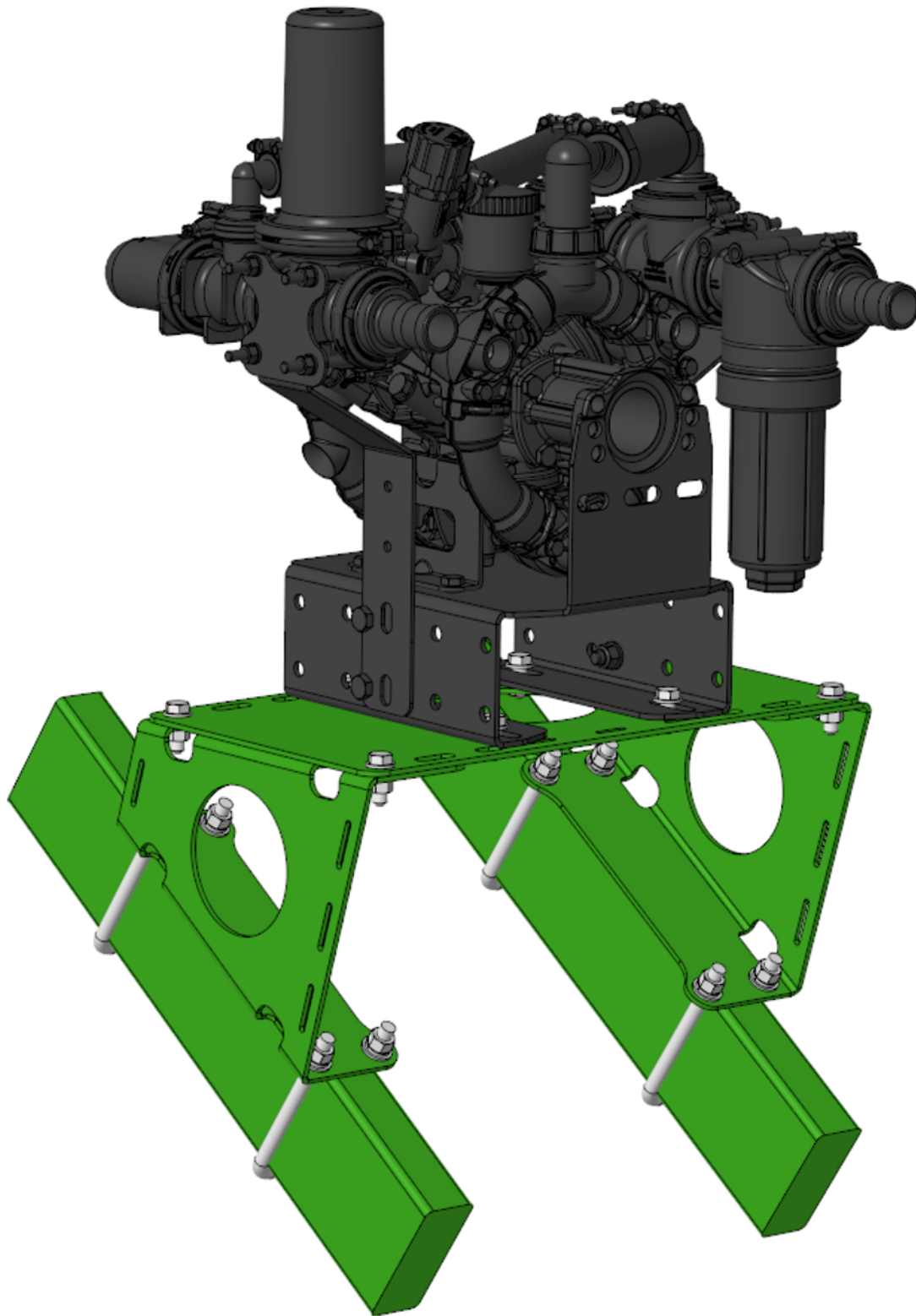
**Step 2:**

Still using hardware kit 724758. Align the brackets and use the (4) M12 x 30mm bolts, washers and serrated flange nuts to loosely install the baseplate on top of the supports. When satisfied with the position, tighten all hardware.



**Step 3:**

Use hardware kit 724725. Install the pump on the mounting bracket using the M12 x 30mm bolts with the washer installed at the head of the bolt and the serrated flange nut on the other side.



## 724754 — John Deere 1720/1725 planter with 100 bushel CCS

This kit will NOT fit planters with the small 55 bushel CCS.

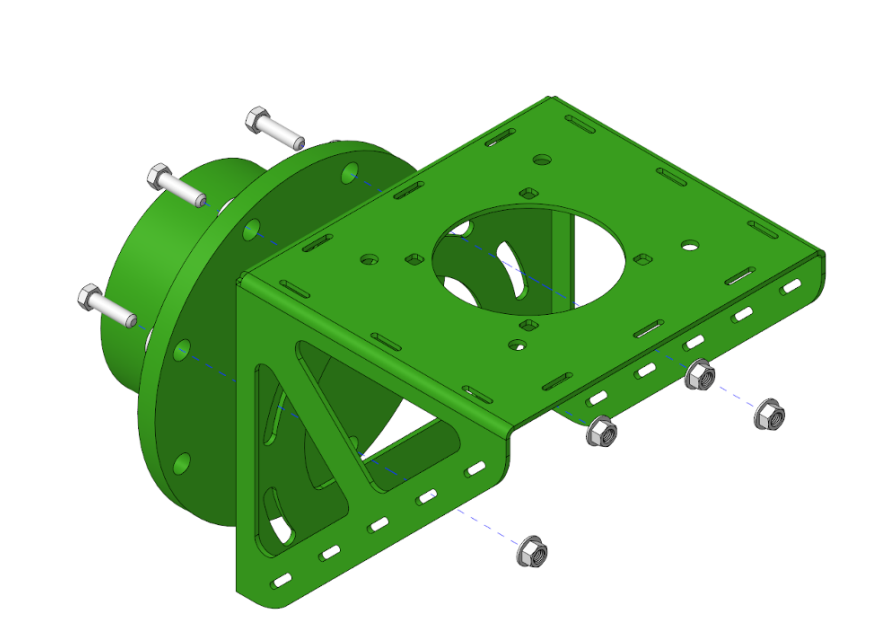
This kit will fit John Deere 1720/1725 planters with 100 bushel CCS. It will bolt to the outside of the lift assist frame. The bracket may fit on only one side, depending upon row spacing and planter configuration.



### Assembly Instructions

#### Step 1:

Use the 724761 hardware kit. Loosely install the mounting bracket to one of the available lift-assist frame support faces using the M12 x 40mm bolts, washers (on the bolt head) and serrated flange nuts.



#### Step 2:

Level the bracket so it is level with the planter lowered and tighten the hardware.

**Step 3:**

Use hardware kit 724725. Install the pump on the mounting bracket using the M12 x 30mm bolts with the washer installed at the head of the bolt and the serrated flange nut on the other side.

