

SmartFirmer2 Support Bracket Installation Guide

Precision Planting®

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SmartFirmer 2 Installation

This is only needed when installing SmartFirmer 2 (145400). Standard SmartFirmer (145100 and 145200) installs do not require a support bracket, only a quick attach firmer bracket is needed.

Note: All specific row unit instructions assumes the Keeton Quick Attach bracket is previously installed.

Note: When the support bracket install is complete for your specific row unit, move to **SmartFirmer 2 Install Guide (955911)** to proceed with the installation of SmartFirmer 2.

John Deere ME2–ME5 Support Bracket Installation

Step 1:

Remove the gauge wheels and left opener disc.

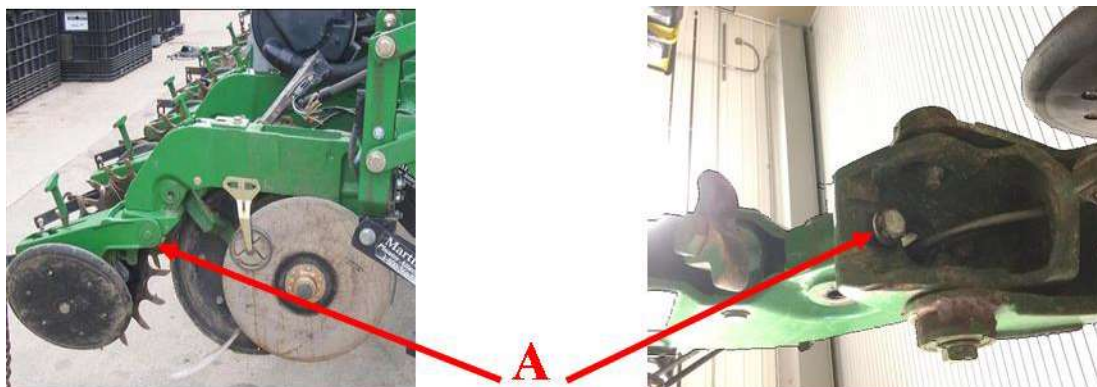
Note: The left opener disc is reverse threaded.

Step 2:

Loosen the right opener disc nut, but leave the disc in place.

Step 3:

Remove the front closing frame bolt (A).



Step 4:

Clean dirt and other debris from the Keeton Quick Attach bracket to ensure a proper fit with the support bracket and the FurrowJet assembly.

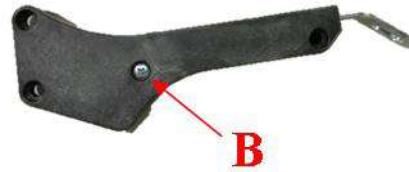
Step 5:

Assemble the support bracket (141130) with the supplied metal tab. Align the tab as shown. The 141130 kit should have the closing frame bolt hole pointed down.

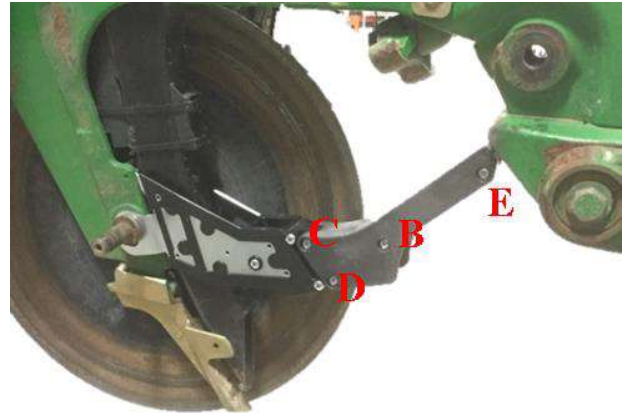


Step 6:

With the tab in position, assemble the other half of the bracket. For now, secure it in the center with only the supplied screw (B).

**Step 7:**

Next, slide the bracket over the two holes on the (150109) Keeton bracket and tighten screws (C and D) through the holes on the left side of the support bracket. **Insert screw (E), but leave loose until step 11.**

**Step 8:**

Install the provided closing frame bolt, washer, and lock washer **finger tight**. Do not reuse the old closing frame bolt.

Step 9:

Press down on the Keeton bracket to ensure it is fully seated in the down most position on both of the opener spindles.

**Step 10:**

Reinstall and tighten the opener discs making sure that the Keeton Bracket remains fully seated in the down most position on both sides.

Step 11:

Tighten screw (E) in the rear of the support bracket.

Step 12:

Tighten the closing frame bolt. Make sure that while you tighten the bolt, the support bracket tab does not twist with the bolt.



John Deere MaxEmerge (7000) Support Bracket Installation

Step 1:

Remove the gauge wheels and left opener disc

Note: The left opener disc is reverse threaded.

Step 2:

Loosen the right opener disc nut, but leave the disc in place.

Step 3:

Remove the front closing frame bolt (A).

**Step 4:**

Clean dirt and other debris from the Keeton Quick Attach bracket to ensure a proper fit with the support bracket and the FurrowJet assembly.

Step 5:

Assemble the support bracket (141135) with the supplied metal tab. Orient the tab as shown below. The 141135 kit should have the closing frame bolt hole pointed up.

**Step 6:**

With the tab in position, assemble the other half of the bracket and, for now, secure it in the center with only the supplied screw (B).

**Step 7:**

Next, slide the bracket over the two holes on the (150109) Keeton bracket and tighten screws (C and D) through the holes on the left side of the support bracket. **Insert, but leave screw (E) loose until step 11.**



Step 8:

Once the support bracket is in place, install the provided bolt, washer, lock washer and spacer to the closing frame **finger tight**.

Note: The spacer will need to be placed between the support bracket tab and the row unit with the tab pointing upward as seen below.

**Step 9:**

Press down on the Keeton bracket to ensure it is fully seated in the down most position on both of the opener spindles.

**Step 10:**

Reinstall and tighten the opener discs making sure that the Keeton bracket remains fully seated in the down most position on both sides.

Step 11:

Tighten screw (E) in the rear of the support bracket.

Step 12:

Tighten the closing frame bolt as seen below. Make sure that while you tighten the bolt, the support bracket tab does not twist with the bolt.



Note: Pay close attention during the installation to confirm that the gauge wheel arms do not hit the FurrowJet support bracket in their down most position or while the planter is raised. If the gauge wheel arms do hit the support bracket, they will need to be trimmed or replaced. Replacement arms can be purchased from Shoup(GWK7000).



Note: If ordering replacement arms from Shoup, no trimming is required. The new arms do not contain the surface that would be trimmed.

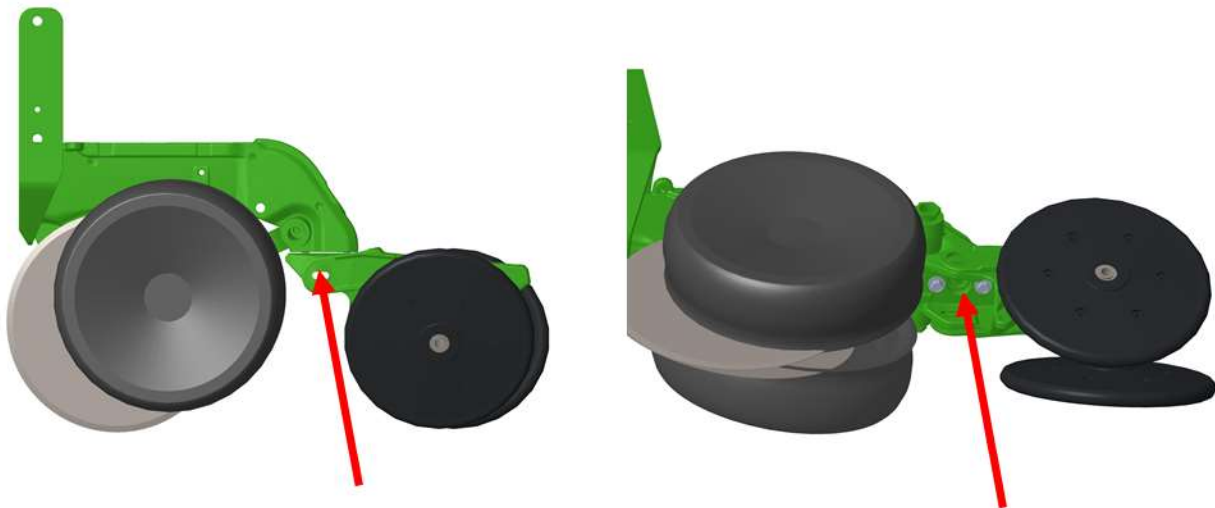


John Deere ExactEMerge Quick Attach and FurrowJet Support Bracket Installation

Note: The installation of this bracket combination will move the closing system 5.4 inches rearward.

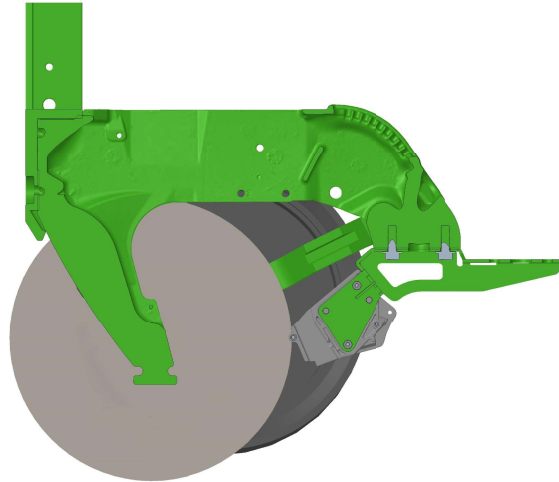
Step 1:

Remove the two closing system bolts

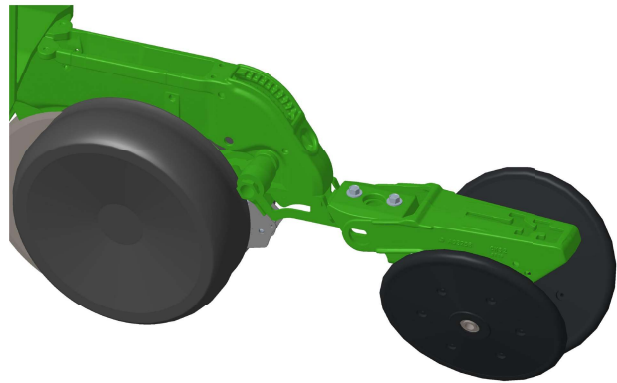


Step 2:

Once the closing system is removed, Install the Quick Attach and Support Bracket Assembly (141150) using the supplied bolts. These bolts will replace the two previously removed bolts.

**Step 3:**

Re-install the closing system on top of the Quick Attach and Support Bracket Assembly (141150) using the supplied bolts and nuts.



Kinze 3000 Non EdgeVac Seed Tube Support Bracket Installation

Step 1:

Remove the gauge wheels and left opener disc

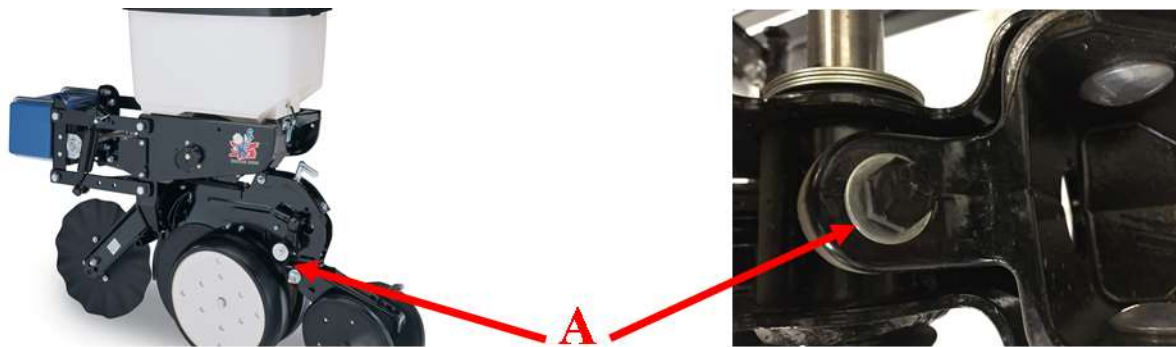
Note: The left opener disc is reverse threaded.

Step 2:

Loosen the right opener disc bolt, but leave the disc in place.

Step 3:

Remove the front closing frame bolt (A).

**Step 4:**

Clean dirt and other debris from the Keeton Quick Attach bracket to ensure a proper fit with the support bracket and the FurrowJet assembly.

Step 5:

Assemble the support bracket (141131) with the supplied metal tab. Orient the tab as shown below. The 141131 kit should have the closing frame bolt hole pointed up.

**Step 6:**

With the tab in position, assemble the other half of the bracket and, for now, secure it in the center with only the supplied screw (B).

**Step 7:**

Next, slide the bracket over the two holes on the (150120) Keeton bracket and tighten screws (C and D) through the holes on the left side of the support bracket. **Insert, but leave screw (E) loose until step 10.**



Step 8:

Install the provided closing frame bolt, washer, and lock washer **finger tight**. We will not reuse the old closing frame bolt.



Step 9:

While reinstalling and tightening the opener discs make sure that the Keeton Bracket remains fully seated in the down most position on both sides.

Step 10:

Tighten screw (E) in the rear of the support bracket.

Step 11:

Tighten the closing frame bolt. Make sure that while you tighten the bolt, the support bracket tab does not twist with the bolt.

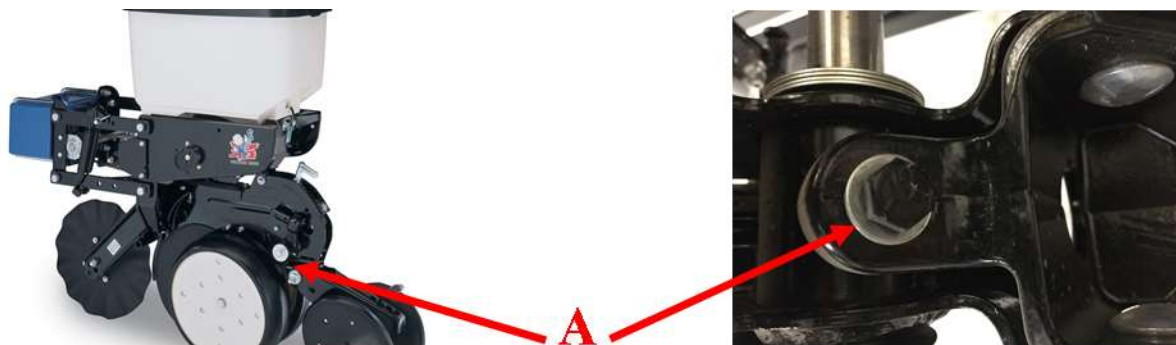
Kinze 3000 EdgeVac Seed Tube Support Bracket Installation

Step 1:

Remove both the left and right gauge wheels as well as both disc scrapers.

Step 2:

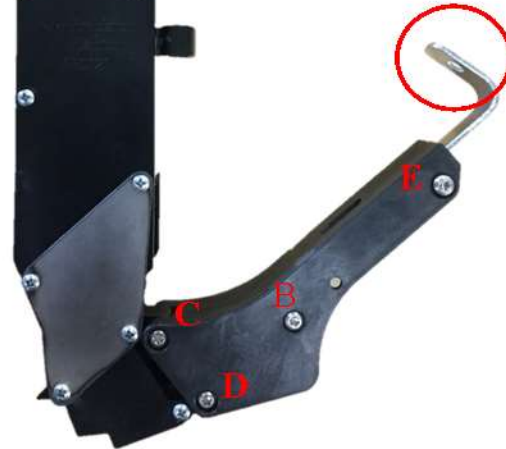
Remove the front closing frame bolt (A).



Step 3:

Secure the support bracket (141131) on the Quick Attach bracket (150121) using screws C, D, and B as shown below. The 141131 kit should have the hole in the metal tab pointed up (circled below).

Insert, but leave screw E loose until step 6 Also, install the metal support plate (141097) that is supplied with the Quick Attach kit (150121).

**Step 4:**

Once assembly is complete, align the top two holes of the Quick Attach bracket with the row unit scraper holes as seen below. Install the provided closing frame bolt, washer, and lock washer. **Make sure that this bolt is finger tight.**

**Step 5:**

Re-install the disc scrapers.

Step 6:

Tighten screw (E) in the rear of the support bracket.

Step 7:

Tighten the closing frame bolt as seen in step 4. Make sure that while you tighten the bolt, the support bracket tab does not twist with the bolt.

Kinze 2000 Support Bracket Installation

Step 1:

Remove the gauge wheels and left opener disc

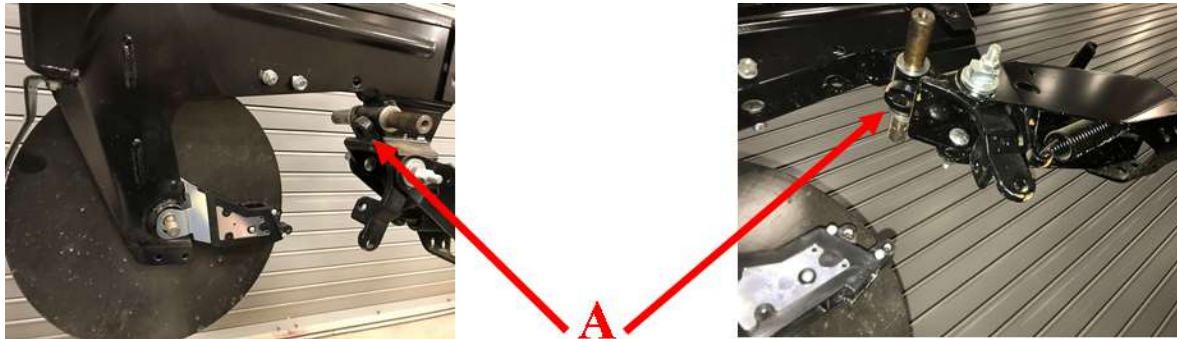
Note: The left opener disc is reverse threaded.

Step 2:

Loosen the right opener disc nut, but leave the disc in place.

Step 3:

Remove the front closing frame bolt (A).

**Step 4:**

Clean dirt and other debris from the Keeton Quick Attach bracket to ensure a proper fit with the support bracket and the FurrowJet assembly.

Step 5:

Assemble the support bracket (141135) with the supplied metal tab. Orient the tab as shown below. The 141135 kit should have the closing frame bolt hole pointed up.

**Step 6:**

With the tab in position, assemble the other half of the bracket and, for now, secure it in the center with only the supplied screw (B).



Step 7:

Next, slide the bracket over the two holes on the (150120) Keeton bracket and tighten screws (C and D) through the holes on the left side of the support bracket. **Insert, but leave screw (E) loose until step 11.**



Note: If the low hanging black tab is still attached to the closing frame, it will need to be trimmed or replaced for proper fit.



Step 8:

Once the support bracket is in place, install the provided bolt, washer, lock washer and spacer to the closing frame **finger tight**.

Note: The spacer will need to be placed between the support bracket tab and the row unit with the tab pointing upward as seen below.

**Step 9:**

Press down on the Keeton bracket to ensure it is fully seated in the down most position on both of the opener spindles.

**Step 10:**

Reinstall and tighten the opener discs making sure that the Keeton Bracket remains fully seated in the down most position on both sides.

Step 11:

Tighten screw (E) in the rear of the support bracket as shown in step 7.

Step 12:

Tighten the closing frame bolt as seen below. Make sure that while you tighten the bolt, the support bracket tab does not twist with the bolt.



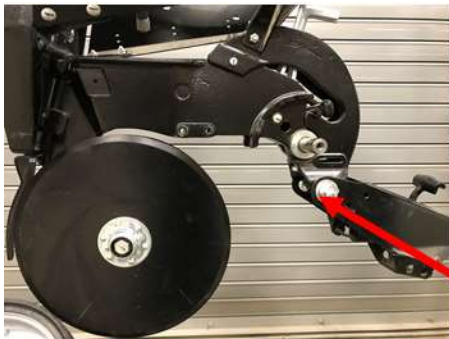
Kinze 4900 Support Bracket Installation

Step 1:

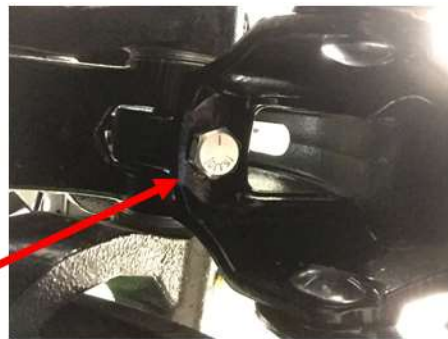
Remove both the left and right gauge wheels as well as both disc scrapers.

Step 2:

Remove the front closing frame bolt (A).



A



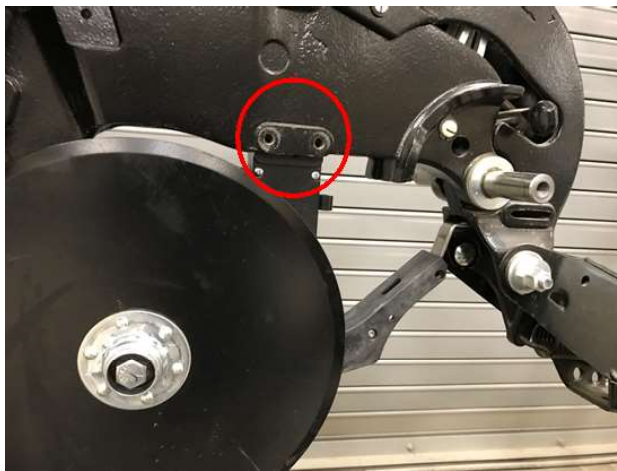
Step 3:

Secure the Support Bracket (141133) on the Quick Attach Bracket (151121) using screws C, D, and B as shown below. The 141133 kit should have the hole in the metal tab pointed down (circled below).

Insert, but leave screw E loose until step 6. Also, install the metal support plate (141097) that is supplied with the Quick Attach kit (150121).

**Step 4:**

Once assembly is complete, align the top two holes of the Quick Attach bracket with the row unit scraper holes as seen below. Re-use the existing front closing frame bolt, adding **two** of the supplied nylon washers to help secure the support bracket tab. **Make sure that this bolt is finger tight.**



Note: If the washers remain loose after finger tightening the bolt, add the third nylon washer that was also included in the hardware kit.

Step 5:

Re-install the disc scrapers.

Step 6:

Tighten screw (E) in the rear of the support bracket.

Step 7:

Tighten the closing frame bolt as seen below. Make sure that while you tighten the bolt, the support bracket tab does not twist with the bolt.



Case 2100 Quick Attach and FurrowJet Bracket Installation (141214)

Note: The installation of this bracket combination will move the closing system 7.25 inches rearward.

Step 1:

Remove the closing system.

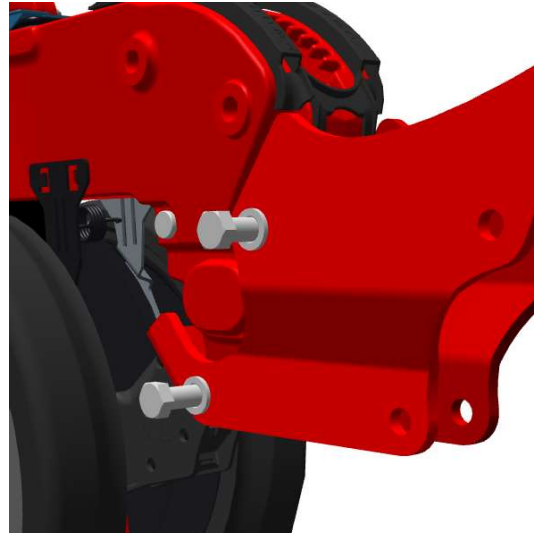
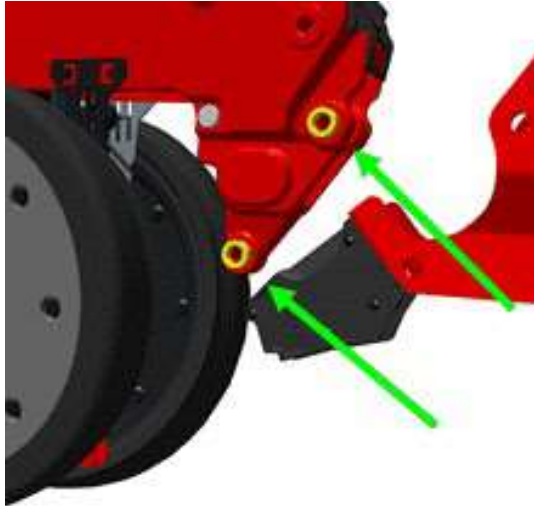
Remove the two upper and one lower 5/16" bolts (shown in green in the picture).



Step 2:

Install the extension bracket (141214).

The upper bolts and both sides of the lower bolt will use washers, and a spacer between the extension bracket and shank.



The bottom bolt will be one of the supplied M16 x90mm bolts and will run through the bracket and secure with the lock nut.



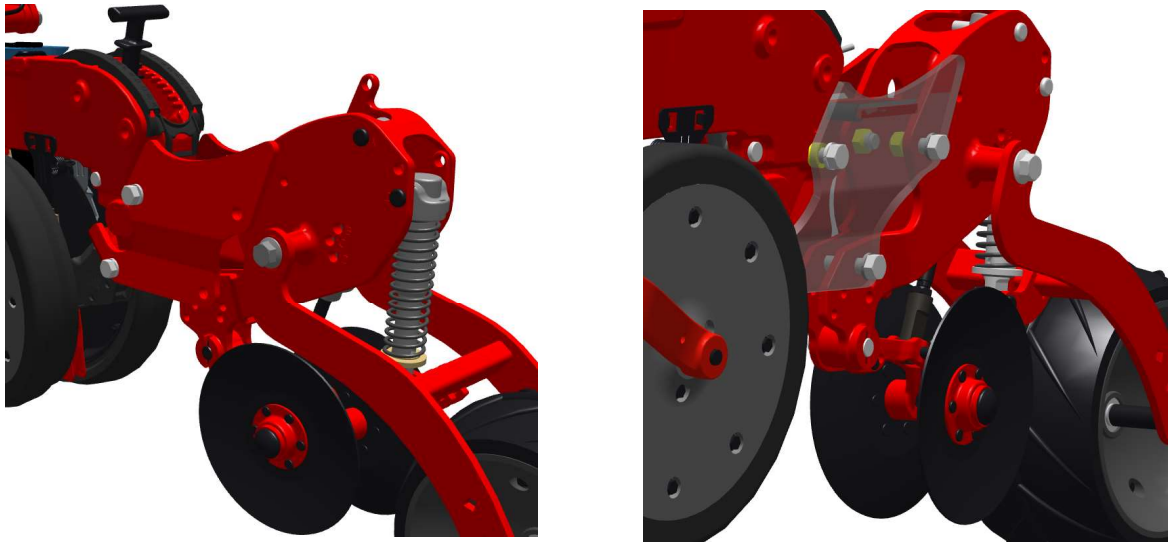
The top bolts will be 2 (of the 4 supplied) M16x45mm bolts and will thread into the shank casting on both sides.



Step 3:

Mount the Case OEM closing system to the extension bracket

These rear mounting bolts will use washers but no spacers.



The bottom bolt will be the other supplied M16 x90mm bolt and will run through the bracket and secure with the lock nut.



The top bolts will be the final 2 M16x45mm bolts and will thread into the shank casting on both sides.

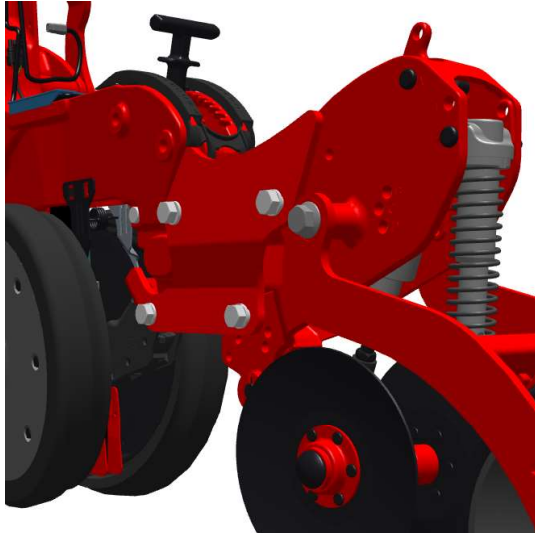


Step 4:

Installation of the FurrowJet Extension/Support Bracket is complete.

The FurrowJet assembly will mount directly to this extension/support bracket. See the FurrowJet Operators Manual to proceed with the installation.

Note: If the CNH pneumatic closing system is installed, additional length of the air lines will be needed.



White 9000/Precision Ready Row Unit Support Bracket Installation

Step 1:

Remove the gauge wheels and left opener disc

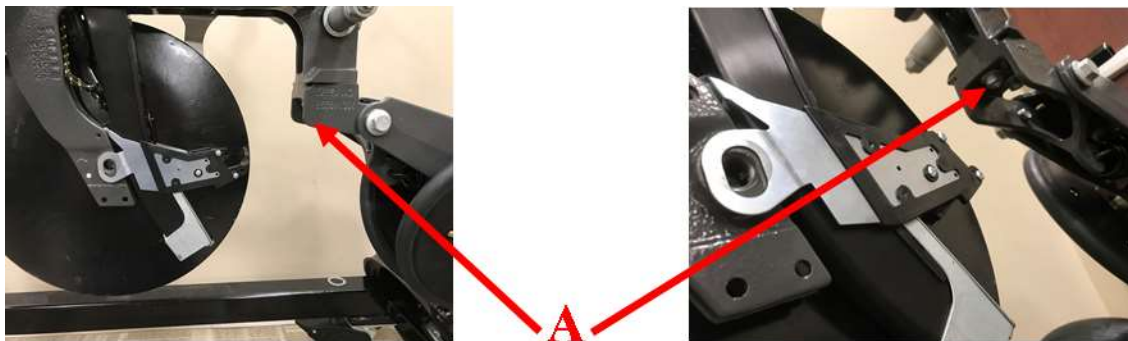
Note: The left opener disc is reverse threaded.

Step 2:

Loosen the right opener disc bolt, but leave the disc in place.

Step 3:

Locate and remove the front closing frame bolt (A).



Step 4:

Clean dirt and debris from the Keeton Quick Attach bracket to ensure a proper fit with the support bracket and the FurrowJet assembly.

Step 5:

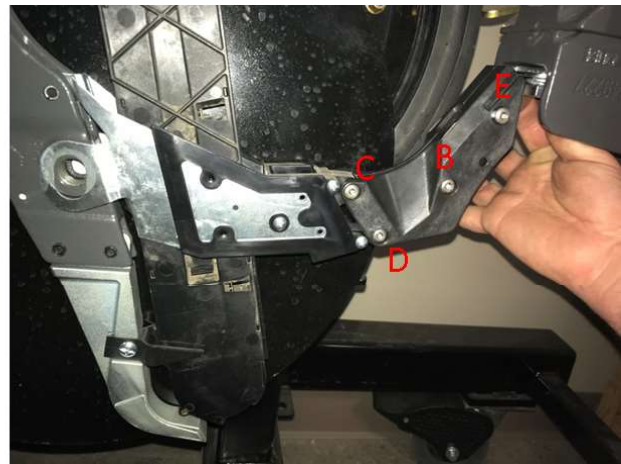
Assemble the support bracket (141137) with the supplied metal tab. Orient the tab as shown below. The 141137 kit should have the closing frame bolt hole pointed down.

**Step 6:**

With the tab in position and **centered**, assemble the other half of the bracket and, for now, secure it in the center with the supplied screw (B).

**Step 7:**

Next, slide the bracket over the two holes on the (150111) Keeton bracket and tighten screws (C and D) through the holes on the left side of the support bracket. Insert, but leave screw (E) loose until step 10.



Step 8:

Install the provided closing frame bolt, washer, and lock washer finger tight. We will not re-use the old closing frame bolt.

**Step 9:**

Re-install and tighten both opener discs. **Be sure to hold the Quick Attach bracket level and in the down most position while tightening the opener bolts.**

Step 10:

Tighten screw (E) in the rear of the support bracket.

Step 11:

Tighten the closing frame bolt installed in Step 8. Make sure that while you tighten the bolt, the support bracket tab does not twist with the bolt.

Harvest International Laser Pro Support Bracket Installation

Step 1:

Remove the gauge wheels and left opener disc

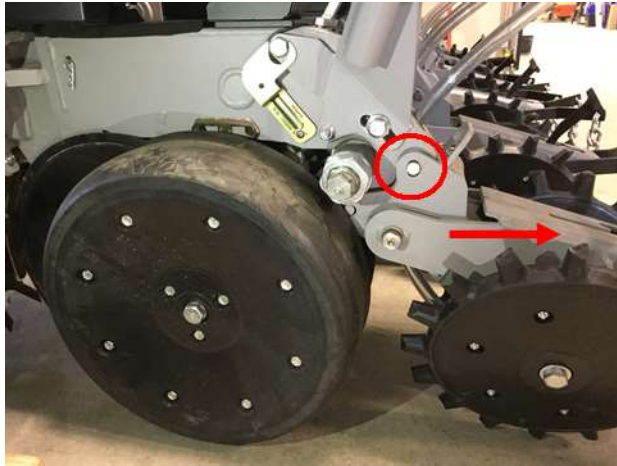
Note: The left opener disc is reverse threaded.

Step 2:

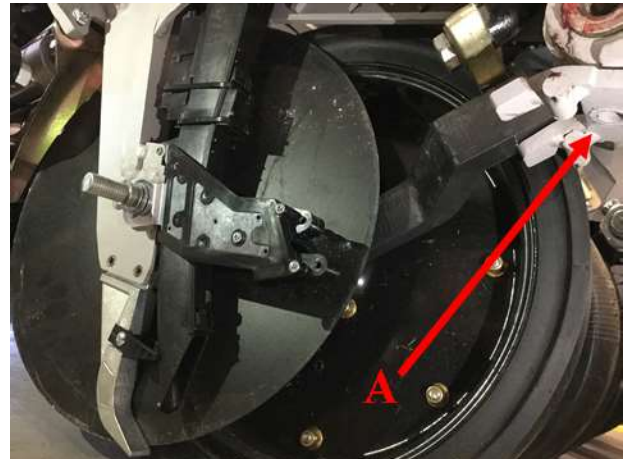
Loosen the right opener disc nut, but leave the disc in place.

Step 3:

To make installation easier, it is best to remove the rear closing wheel assembly. This is done by removing the pin, as seen below, and pulling the handle of the closing system to the rear.

**Step 4:**

Remove the front closing frame bolt (A).

**Step 5:**

Clean dirt and other debris from the Keeton Quick Attach bracket to ensure a proper fit with the support bracket and the FurrowJet assembly.

Step 6:

Assemble the support bracket (141134) with the supplied metal tab. Orient the tab as shown below. The 141134 kit should have the closing frame bolt hole pointed down.

**Step 7:**

With the tab in position, assemble the other half of the bracket and, for now, secure it in the center with the supplied screw (B).



Step 8:

Next, slide the bracket over the two holes on the (150109) Keeton bracket and tighten screws (C and D) through the holes on the left side of the support bracket. **Insert, but leave screw (E) loose until step 12.**

**Step 9:**

Install the provided closing frame bolt, washer, and lock washer **finger tight**. We will not reuse the old closing frame bolt.

Step 10:

Press down on the Keeton bracket to ensure it is fully seated in the down most position on both of the opener spindles. The thickness of the roll pin can make the Quick Attach brackets want to walk off the roll pin while tightening the disc opener bolts and make the bracket sit uneven.

Step 11:

Reinstall and tighten the opener discs making sure that the Keeton Bracket remains fully seated in the down most position on both sides.

Step 12:

Tighten screw (E) in the rear of the support bracket.

Step 13:

Tighten the closing frame bolt. Make sure that while you tighten the bolt, the support bracket tab does not twist with the bolt.

