

SpeedTube™

Kinze 3000 Row Unit Kit Installation Manual

Kit Number 768395

Precision Planting®

System Hardware

Part Number	Description	Quantity
768395	Kinze 3000 SpeedTube Row Unit Kit	1 per row
The Row Unit Kit includes the following parts		
768486	Kinze 3000 SpeedTube Retention Spring	1 per row
768278	Kinze 3000 SpeedTube Guard	1 per row
150109	Quick Attach Firmer Bracket Kit	1 per row
768516	Kinze 3000 Shank Cover	1 per row

SpeedTube Guard Installation

Step 1

Raise the planter.

Step 2

Remove the seed tube.

Step 3

Re-install the seed tube pin.

Step 4

Remove both gauge wheels and opening disks. Refer to OE Manufacturer's instructions.

Step 5

Remove currently installed firmer bracket (if applicable).

Step 6

Using a 3/8" allen wrench, remove the two cap screws which secure the seed tube guard to the shank. Refer to figure 1-6.

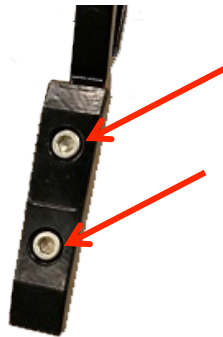


Figure 1-6

Note: The lower, cast portion of Kinze 3000 series shank interferes with the SpeedTube position and must be cut off for clearance/compatibility.

Step 7

With the seed tube guard removed, locate the casting indentation in the shank, just above where the seed tube guard was mounted. Refer to figure 1-7.



Figure 1-7

Step 8

Cut off the bottom of the shank just below the casting indentation located in the step above. A minimum of $\frac{1}{4}$ " of material should remain between the cut and the bottom of the rounded cavity. The cut should be parallel with the casting indentation. Refer to figure 1-8.

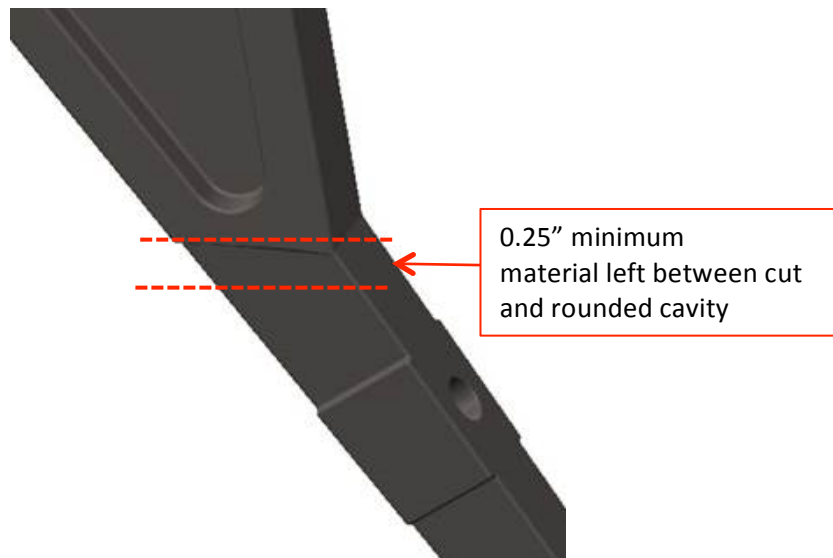


Figure 1-8

Note: An electric angle grinder with a thin cutting disk is recommended when removing the bottom portion of the shank. An air angle grinder or reciprocating saw can also be used if an electric angle grinder is not available.

Step 9

Locate the right (body) half of the Kinze 3000 SpeedTube guard and position on the shank. The rounded surface on the guard will fit into the rounded cavity in the shank. Refer to figure 1-9.

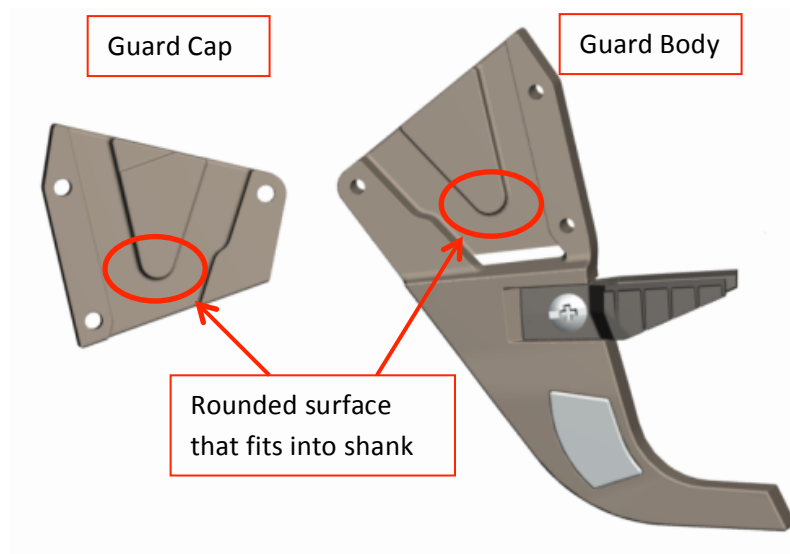


Figure 1-9

Step 10

Place the left (cap) side of the guard on the shank and align the three holes on the guard body. Utilizing the 1/8" allen bit included in the SpeedTube Essentials Kit, secure the guard with the three (3) supplied #10-24 X 3/4" flat head screws. Refer to figure 1-10.

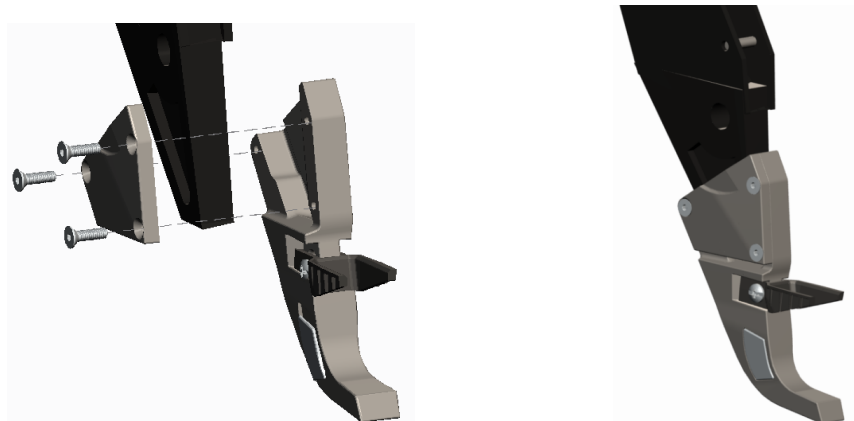


Figure 1-10

Quick Attach Firmer Bracket Installation

Step 1

Locate and assemble the left and right firmer bracket pieces using the three (3) supplied #8 X 1.25" screws. Refer to figure 2-1.

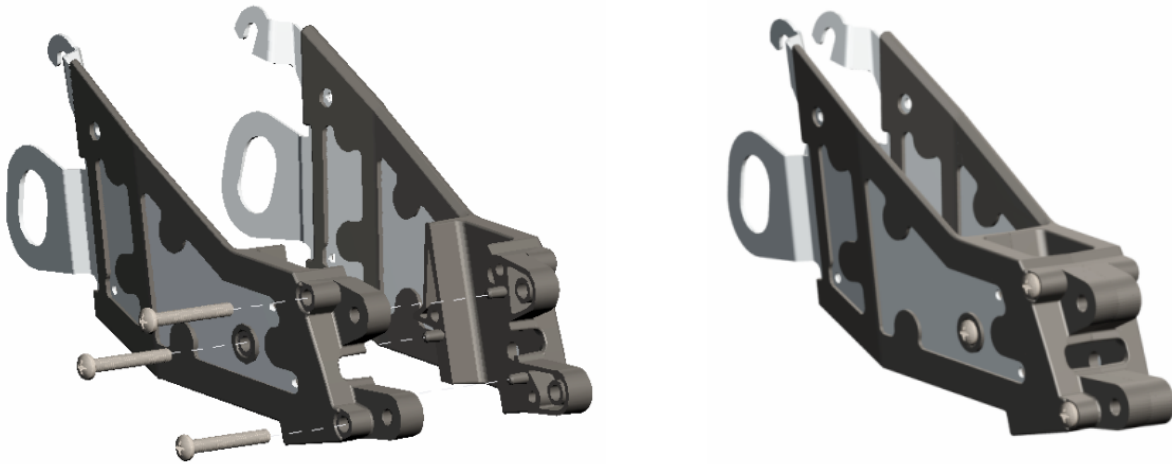


Figure 2-1

Step 2

With the bracket assembled, secure the upper bracket hooks to the lower seed tube pin on the shank. Orient each bracket eyelet over the opening disc mounting holes. Refer to figure 2-2.

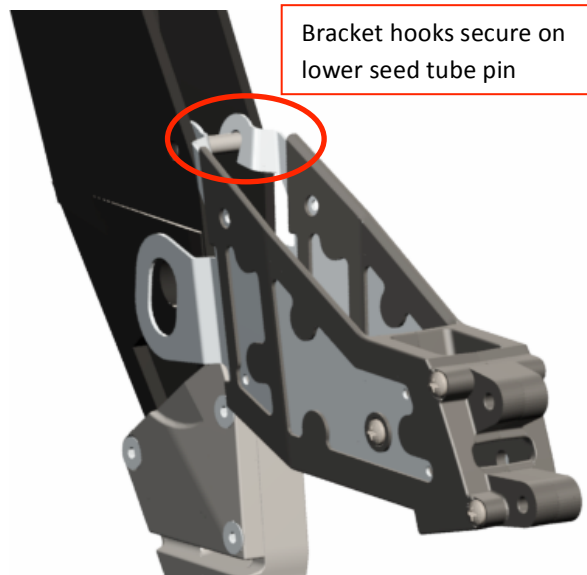


Figure 2-2

Retention Spring Installation

Step 1

Orient the retention spring over the shank as shown in figure 3-1.

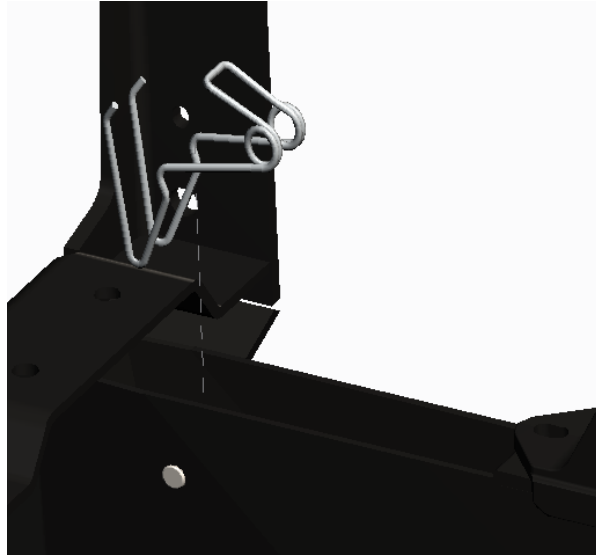


Figure 3-1

Step 2

Push the retention spring down and forward to lock it into place over the seed tub pin. Refer to figure 3-2.



Figure 3-2

Shank Cover Installation

Step 1

Position the shank cover over the shank opening as shown in 4-1.



Figure 4-1

Step 2

If desired, route the load pin wire through either side of the molded slots on the underside of the cover before installing. Refer to figure 4-2.



Figure 4-2

Step 3

Slide the horizontal tab beneath the rear shank opening. Press the cover down until fully seated on the shank as shown in figure 4-3.

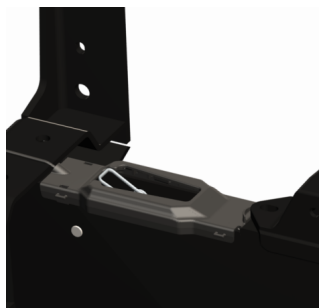


Figure 4-3

SRM Mounting Modification with SpeedTube and AirForce Lift Bag

When AirForce lift bags are installed with SpeedTube, the bag brackets interfere with the preferred mounting location of the SRM. The SRM needs to be relocated to the left side panel and a new $\frac{3}{8}$ " mounting hole drilled. Refer to figure 5-1.

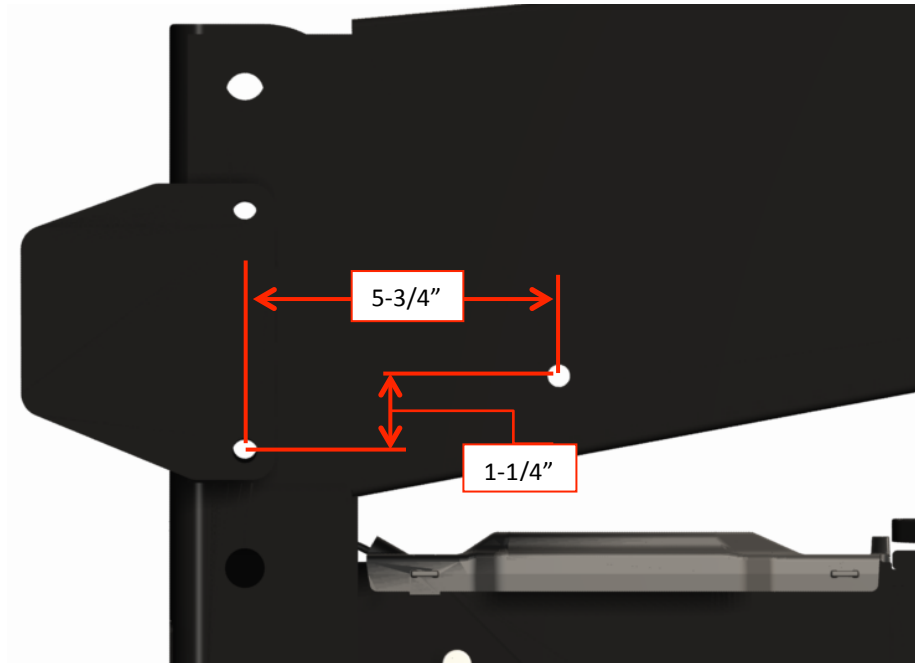


Figure 5-1

SpeedTube Installation

Step 1

Lower the SpeedTube onto the retention spring so the front hook rests on the retention spring as shown in figure 6-1. The SpeedTube should rest freely on the retention spring.

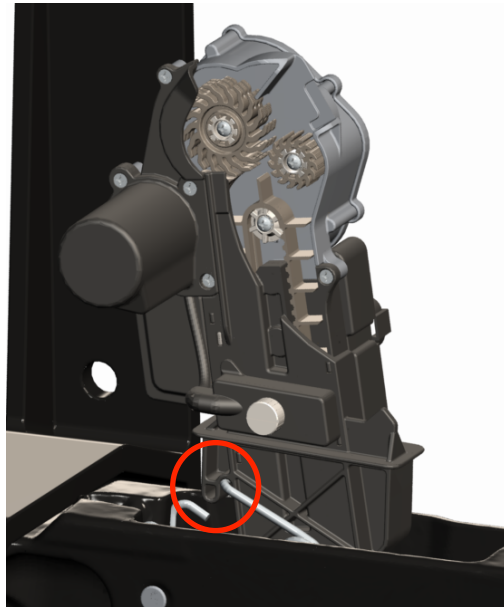


Figure 6-1

Step 2

Locate the SpeedTube wiring clip and mount it to the SRM ladder clip using the two provided zip ties. The clip should align with each row of openings on the ladder bracket and the harness connection point positioned below the 12 pin connector on the SRM. Refer to figure 6-2.

Note: It will be easier to mount the wiring clip before installing the ladder clip to the SRM. If the ladder clip is already installed, the mounting nut will need to be loosened to feed the zip ties through the bracket holes.

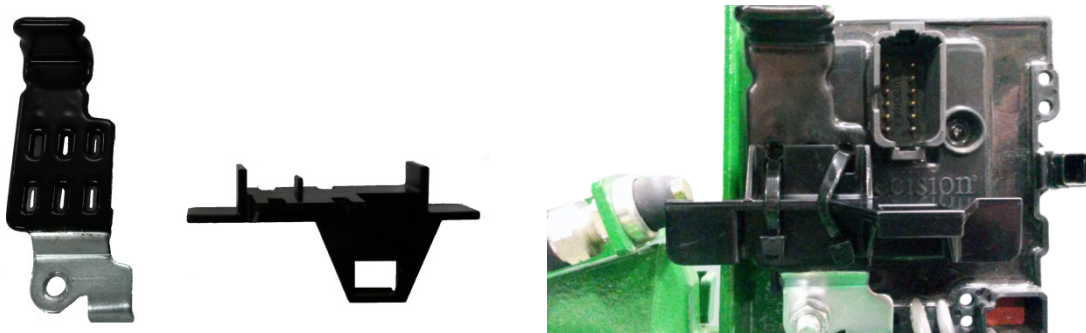


Figure 6-2

Step 3

Wrap any extra vDrive row harness connection length around the wiring clip. Refer to figure 6-3.

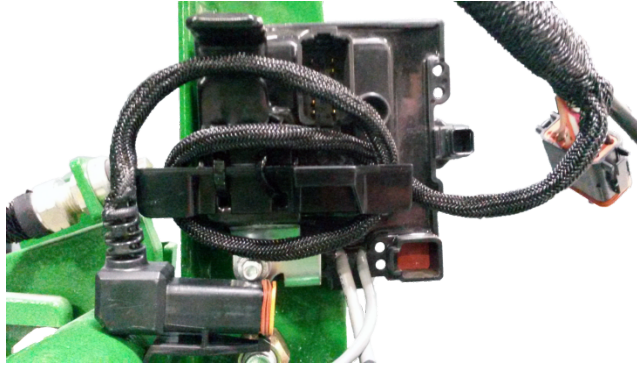


Figure 6-3

Step 4

Install the SpeedTube Y-Harness by sliding the receptacle labeled “Row Harness” into the mounting location on the wiring clip. Plug the vDrive connection from the SRM row harness into the Y-harness. Refer to figure 6-4.

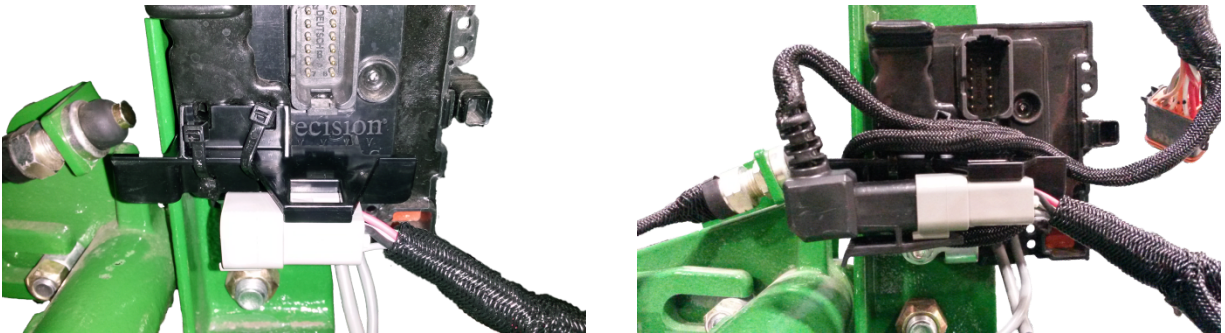


Figure 6-4

Step 5

Identify the 6 pin Deutsch plug on the y-harness labeled “SpeedTube” and plug it into the SpeedTube module. Refer to figure 6-5.

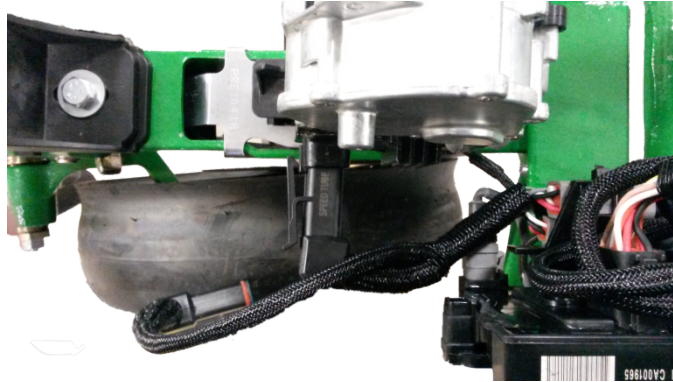


Figure 6-5

Step 6

Identify the 6 pin Deutsch plug on the y-harness labeled “vDrive” and plug it into the vDrive motor. If vDrive Insecticide is installed, the remaining 6 pin Deutsch connector labeled “Insecticide” will be used for that system. If vDrive insecticide is not installed, the connector will not be used.

Step 7

Make sure all wiring is secured out of the way to avoid contact with raised gauge wheels or other components.

vSet 2 Meter and SpeedTube Interface

Install the assembled mini hopper and meter to the row unit. Refer to the vSet 2 instructions for details. When locking the mini hopper in place with the rear latch, ensure the SpeedTube housing and vSet 2 meter housing are properly aligned. The meter housing should pilot into the open area above the SpeedTube motor housing. The tab on the SpeedTube housing should align between the opening of the meter housing and meter cover. Refer to figure 7-1.

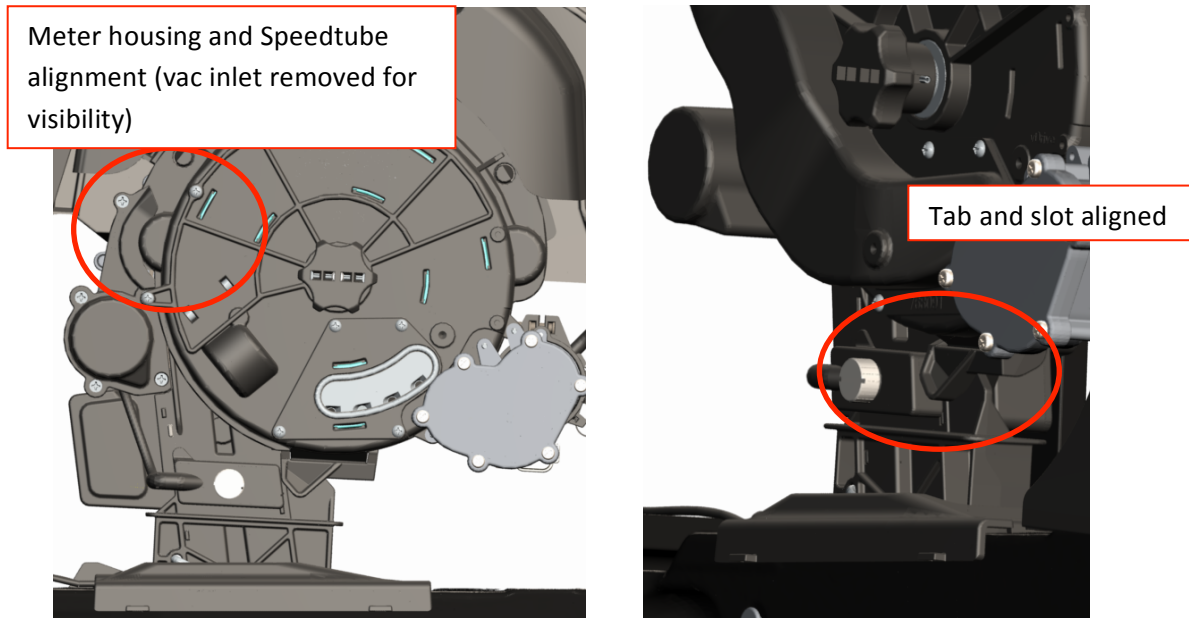


Figure 7-1

Installation Completion

Step 1

Reinstall the opening disks with 1.5"-2" of contact (check multiple locations). Shim disks as necessary. Ensure firmer bracket is fully seated on the lower seed tube pin when tightening.

Note: The Keeton bracket eyelets will serve as a shim for each disk. General recommendation would be one less shim (per side) than previously installed.

Step 2

Reinstall both gauge wheels according to Manufacturer's instructions.