

SpeedTube™

John Deere XP Row Unit Kit Installation Manual

Kit Number 768394

Precision Planting®

System Hardware

Part Number	Description	Quantity
768394	John Deere XP SpeedTube Row Unit Kit	1 per row
The Row Unit Kit includes the following parts		
768487	John Deere XP SpeedTube Retention Spring	1 per row
768279	John Deere XP/ME5 SpeedTube Guard	1 per row
150109	Quick Attach Keeton Bracket	1 per row
700279	Seed Tube Pin (Includes 1 pin and clip)	1 per row
768517	John Deere XP 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

Remove OEM seed tube guard. Refer to Manufacturer's instructions.

Step 7

Install the SpeedTube guard onto the bottom of the shank and insert the binding post and screw. Refer to figure 1-7.

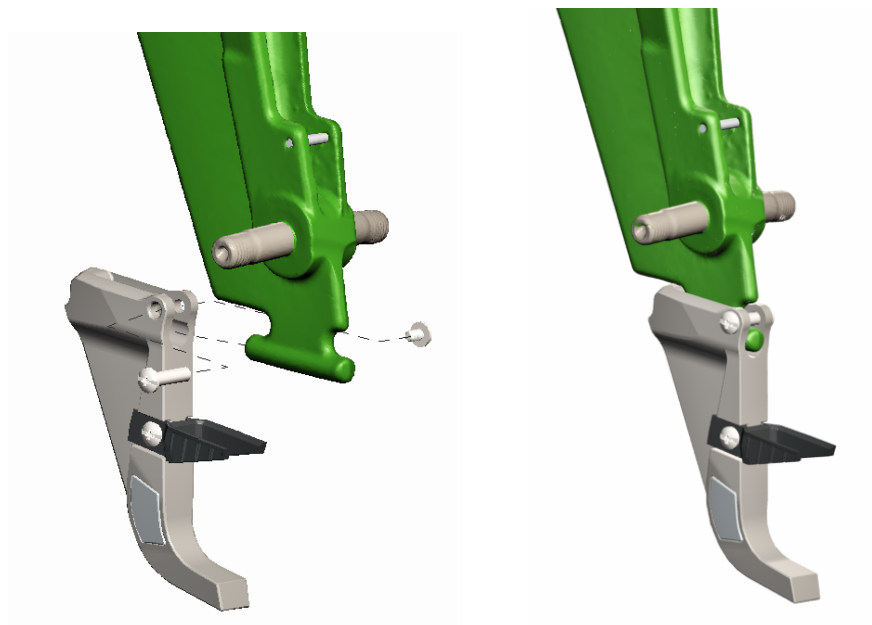


Figure 1-7

Quick Attach Firmer Bracket Installation

Step 1

Locate the left and right hand side of the firmer bracket.

Step 2

Slide the eyelet on each half of the firmer bracket onto the respective opening disk shaft. Refer to figure 2-2.

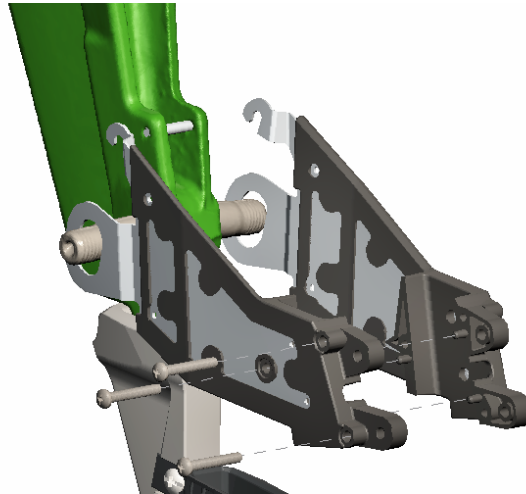


Figure 2-2

Step 3

Secure the upper bracket hooks to the lower seed tube pin on the shank. Assemble the bracket pieces with the three (3) supplied #8 X 1.25" screws. Refer to figure 2-3.

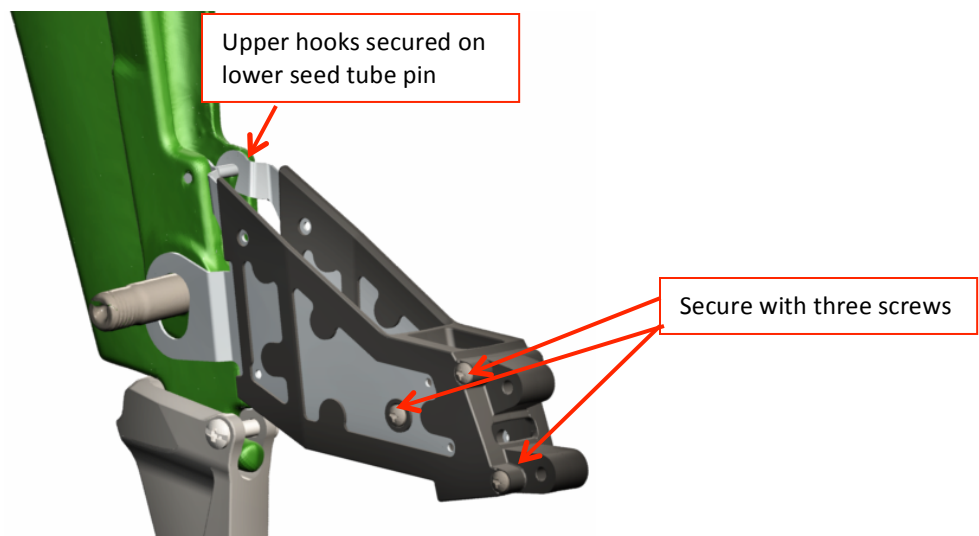


Figure 2-3

SpeedTube Retention Spring Installation

Step 1

Orient the retention spring over the shank opening 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 tube pin. Refer to figure 3-2.

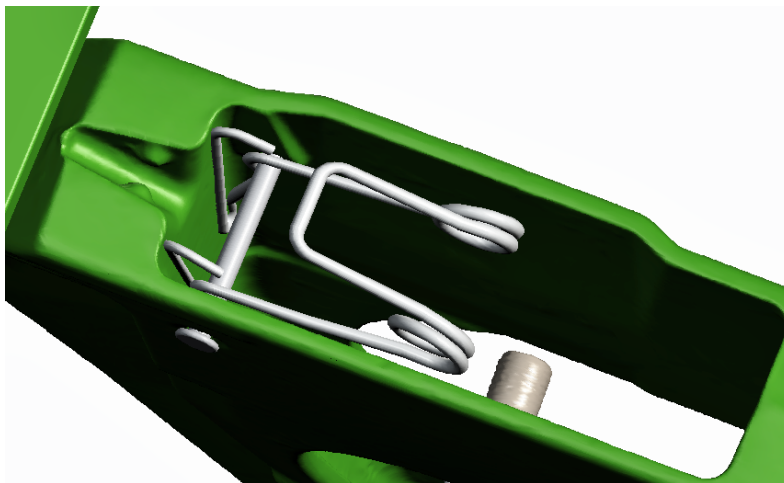


Figure 3-2

Shank Cover Installation

Step 1

Position the shank cover over the shank opening as shown in figure 4-1. The vertical tab should be oriented toward the planter bar.

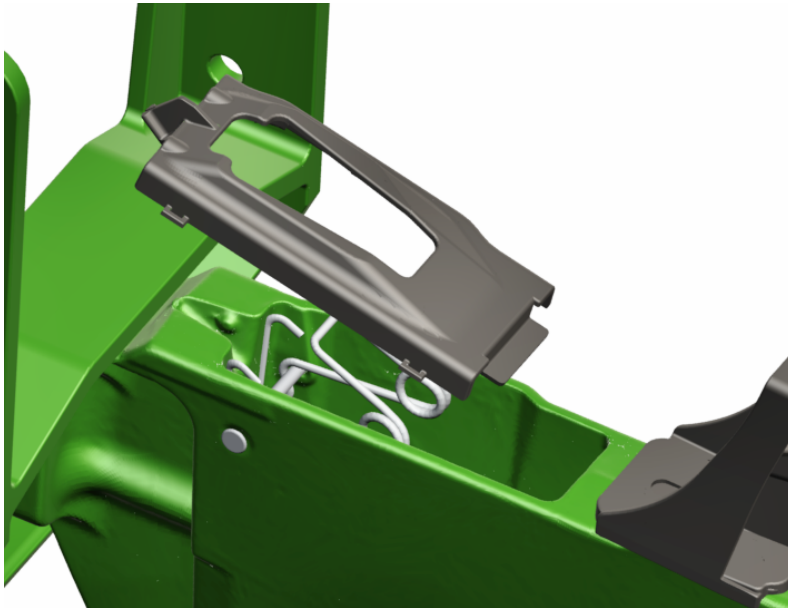


Figure 4-1

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 shank opening toward the rear post. Press the cover down until fully seated on the shank. Push the front tab down between the two shank protrusions. Refer to figure 4-3.

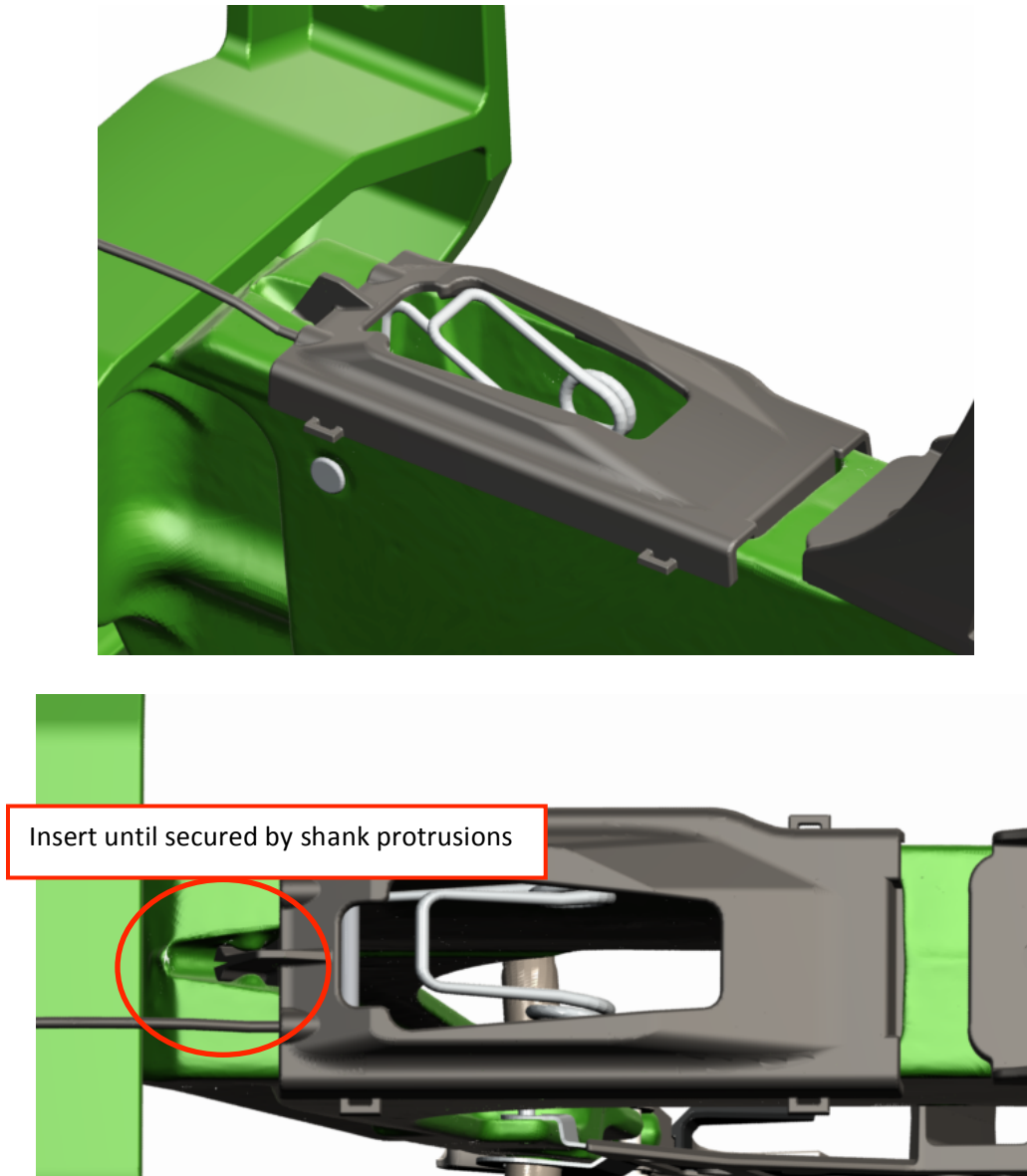


Figure 4-3

SpeedTube Installation

Step 1

Lower the SpeedTube onto the retention spring so the front hook rests on the retention spring as shown in figure 5-1. The SpeedTube should rest freely on the retention spring.

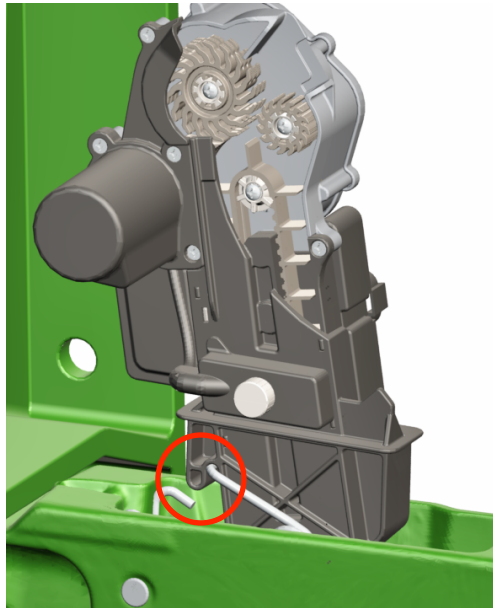


Figure 5-1

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 5-2.

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.

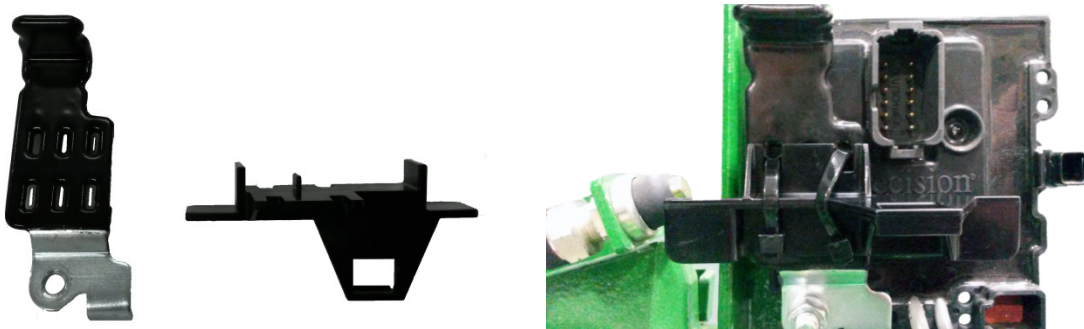


Figure 5-2

Step 3

Wrap any extra vDrive row harness connection length around the wiring clip. Refer to figure 5-3.

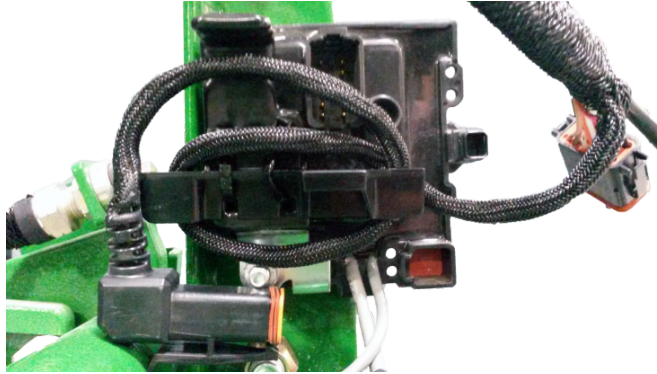


Figure 5-3

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 5-4.

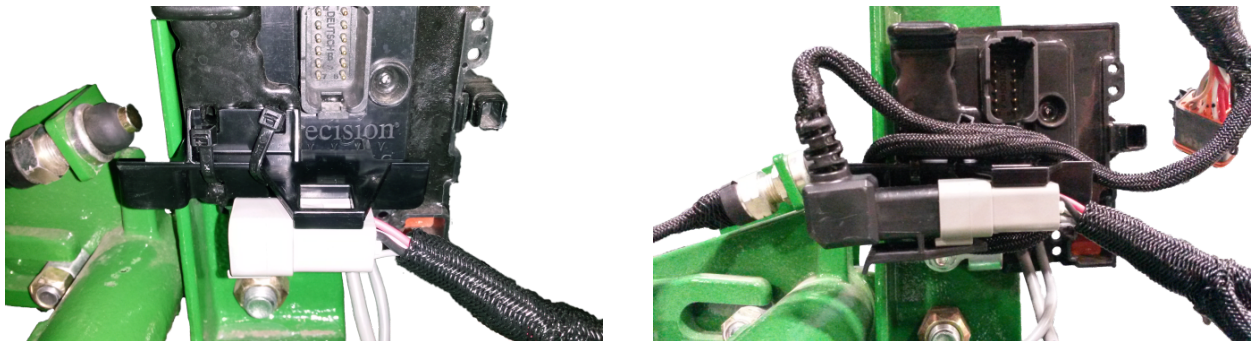


Figure 5-4

Step 5

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

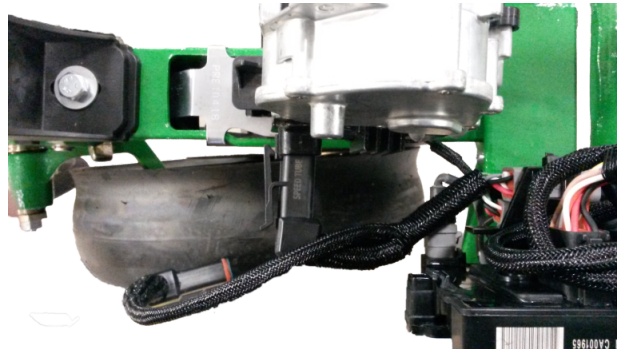


Figure 5-5

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 6-1.

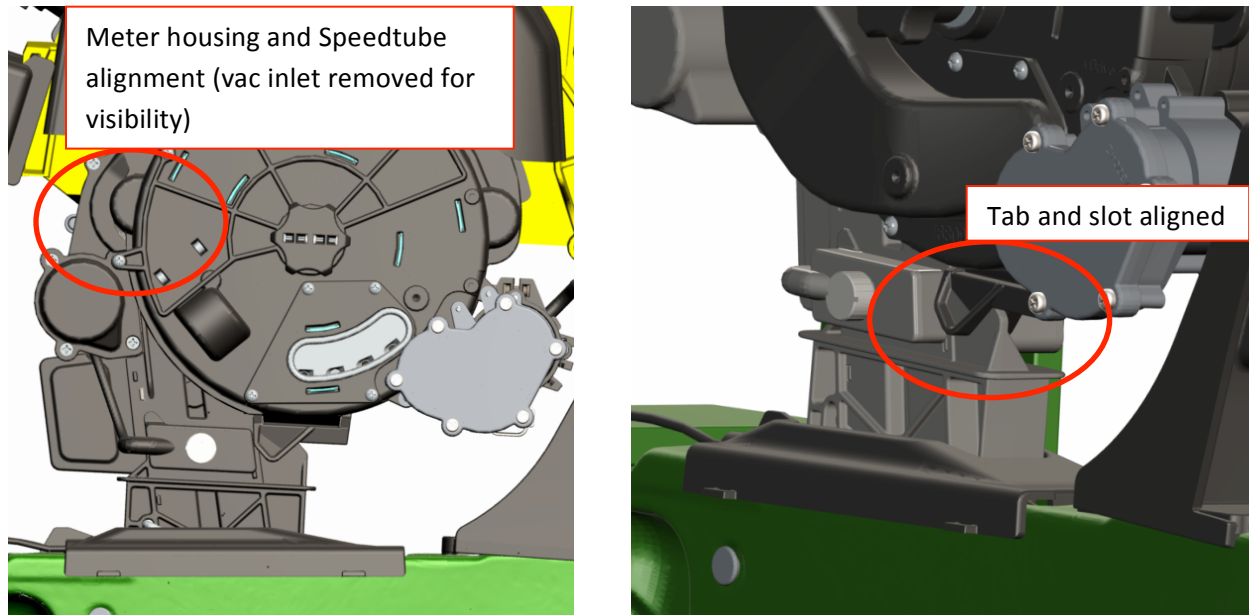


Figure 6-1

Installation Completion

Step 1

Reinstall the opening disks with 1.5"-2" of contact (check multiple locations). Shim disks as necessary. Ensure firmer bracket remains 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.