

SpeedTube™

White 9000 Row Unit Kit Installation Manual

Precision Planting®

System Hardware

Part Number	Description	Quantity
768490	White 9000 SpeedTube Row Unit Kit	1 per row
The Row Unit Kit includes the following parts		
768551	White 9000 SpeedTube Retention Spring	1 per row
768444	White 9000 SpeedTube Guard	1 per row
150111	White 9000 Quick Attach Firmer Bracket	1 per row

1) SpeedTube Guard Installation

- a) Raise the planter.
- b) Remove the seed tube pin and seed tube.
- c) Re-install the seed tube pin.
- d) Remove both gauge wheels and opening disks. Refer to OE Manufacturer's instructions.
- e) Remove currently installed firmer bracket (if applicable).
- f) Remove OEM seed tube guard. Refer to Manufacturer's instructions.
- g) Align the SpeedTube guard with the guard holes in the shank and install the 5/16" x 7/8" roll pins using a 1/4" or 9/32" punch. Keep the pins centered in the shank. For easier installation, insert a 5/16" bolt or pin in the rear hole while installing the front spring pin. Refer to illustration 1.

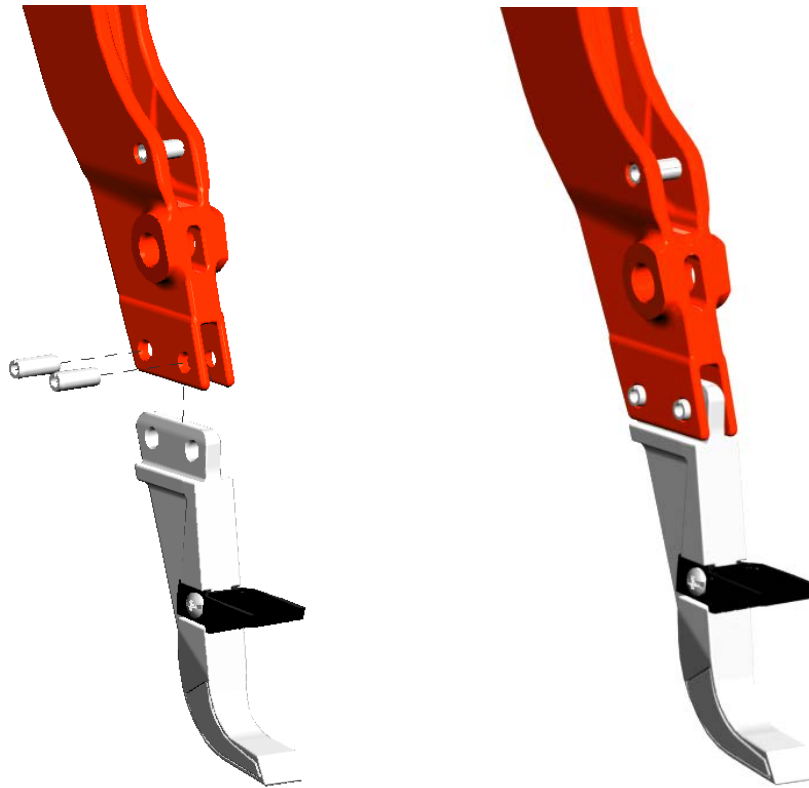


Illustration 1 – SpeedTube Guard Installation

2) Quick Attach Firmer Bracket Installation

- a) Locate the left and right hand side of the firmer bracket and cut the zip tie holding them together.
- b) Assemble the firmer bracket pieces using the three (3) supplied #8 X 1.25" screws. Refer to illustration 2 on the following page.

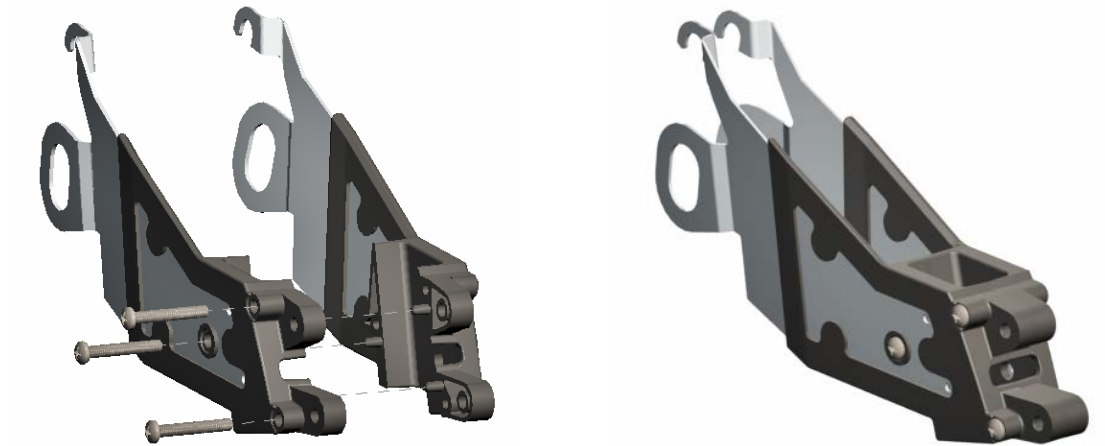


Illustration 2 – Assemble Quick Attach Firmer Bracket

- c) Secure the upper bracket hooks to the lower seed tube pin on the shank and align each eyelet with the disk opener bolt holes. Refer to illustration 3.

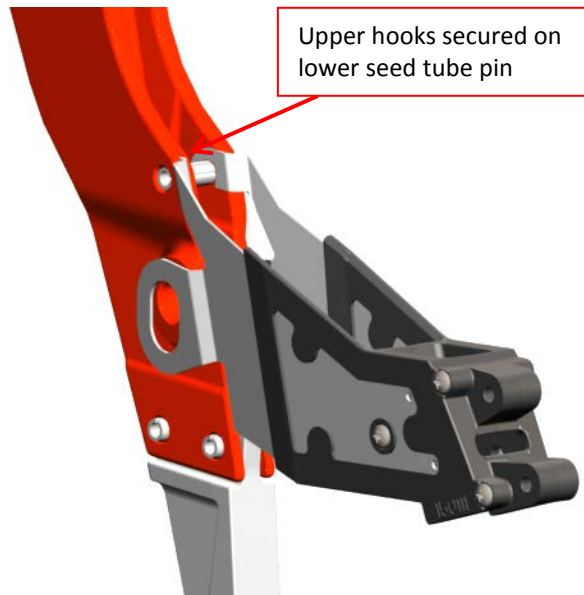


Illustration 3 – Quick Attach Keeton Firmer Bracket Installed

3) SpeedTube Retention Spring Installation

- a) Orient the retention spring in the shank opening as shown in illustration 4 on the following page.

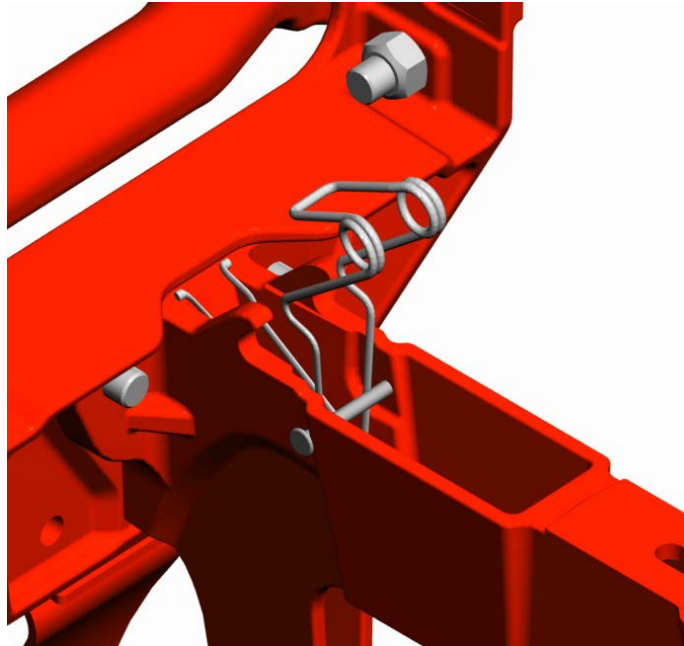


Illustration 4 – SpeedTube Retention Spring Alignment

- b) Place the retention spring front hooks between the shank and the goal post. Rotate the retention spring down and forward over the seed tube pin. Refer to illustration 5.

Note: In some cases the seed tube pin may need to be removed to install the retention spring. With the spring in the proper position, reinstall the seed tube pin.



Illustration 5 – SpeedTube Retention Spring Installed

4) SpeedTube Installation

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

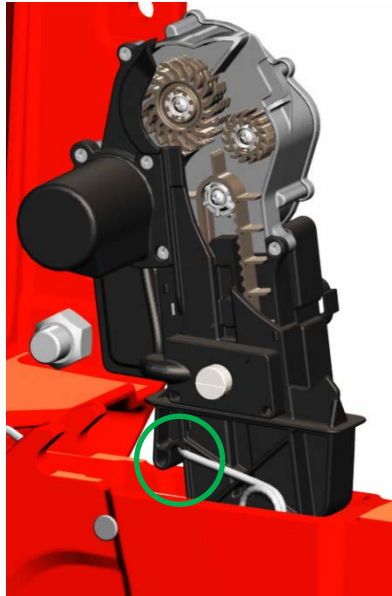


Illustration 6 – SpeedTube Resting on Retention Spring

- b) Locate the SpeedTube wiring clip and mount it to the SRM ladder bracket using the two provided zip ties. The clip should align with each row of openings on the ladder bracket with the harness connection point positioned below the 12 pin connector on the SRM. Refer to illustration 7.

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

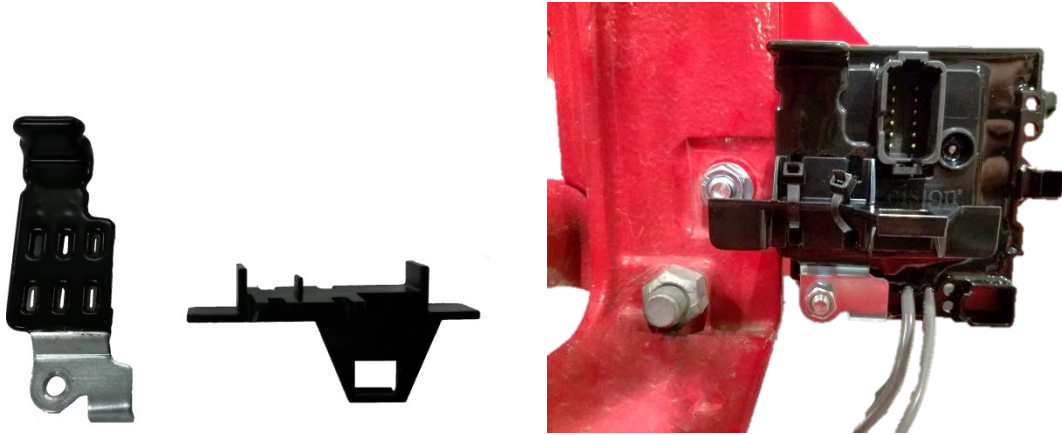


Illustration 7 – SpeedTube Wiring Clip

- c) Wrap any extra vDrive row harness connection length around the wiring clip. Refer to illustration 8.

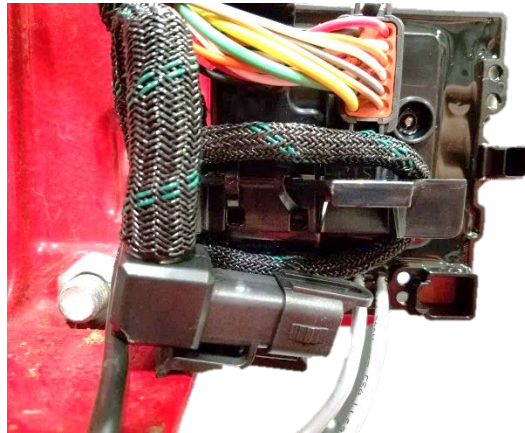


Illustration 8 – SRM Row Harness Installed around SpeedTube Wiring Clip

- d) 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 illustration 9.

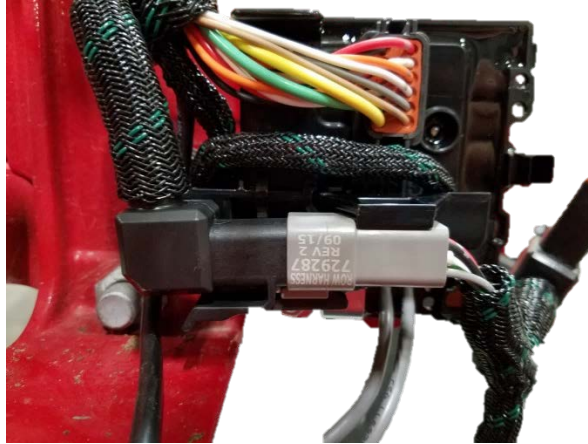


Illustration 9 – Row Harness and Y-Harness Connected

- e) Identify the 6 pin Deutsch plug on the y-harness labeled “SpeedTube” and plug it into the SpeedTube module.
- f) 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.
- g) Make sure all wiring is secured to avoid contact with raised gauge wheels or other components.

5) vSet 2 Meter and SpeedTube Interface

- a) Install the assembled hopper and meter to the row unit. Refer to the vSet 2 instructions for details. When locking the 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 illustration 11 on the next page.

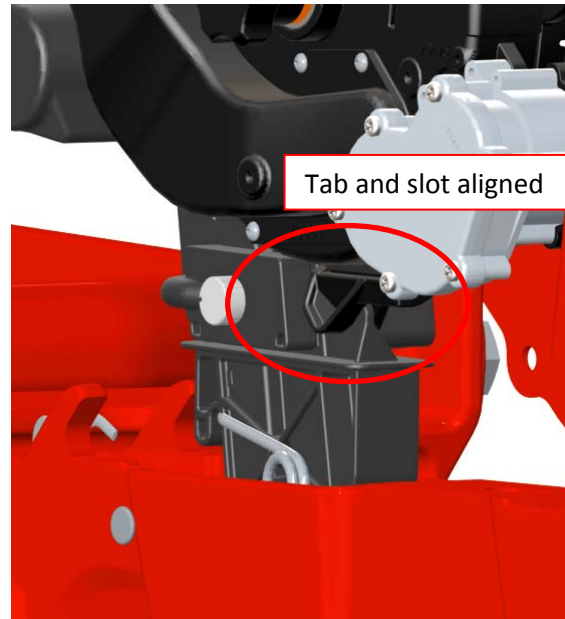
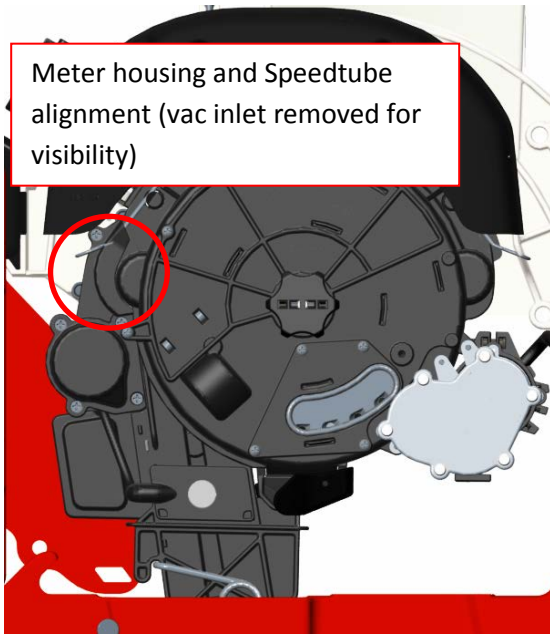


Illustration 11 – vSet 2 Meter and SpeedTube Interface

6) Installation Completion

- a) 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.

- b) Reinstall both gauge wheels according to Manufacturer's instructions.