

SpeedTube™

CASE 12XX Row Unit Kit Installation Manual

Precision Planting®

System Hardware

Part Number	Description	Quantity
768644	CASE IH 12XX SpeedTube Row Unit Kit	1 per row
The Row Unit Kit includes the following parts		
768599	CASE IH 12XX SpeedTube Cover	1 per row
768602	CASE IH 12XX SpeedTube Retention Spring	1 per row
768649	CASE IH 12XX SpeedTube Shoe	1 per row
200007	3/8"-16 X 3/4" Flange Head Hex Bolt	2 per row

1) SpeedTube Guard Installation

- a) Raise the planter.
- b) Remove the seed tube.
- c) The OEM shoe and firming point can be removed without removing either gauge wheel or opening disk, but it will be easier if one gauge wheel and opening disk is removed. Refer to Manufacturer's instructions to remove the gauge wheel, opening disk, and scraper from one side.
- d) Remove OEM shoe and firming point. Once the shoe is removed the firming point will release. Refer to illustration 1.

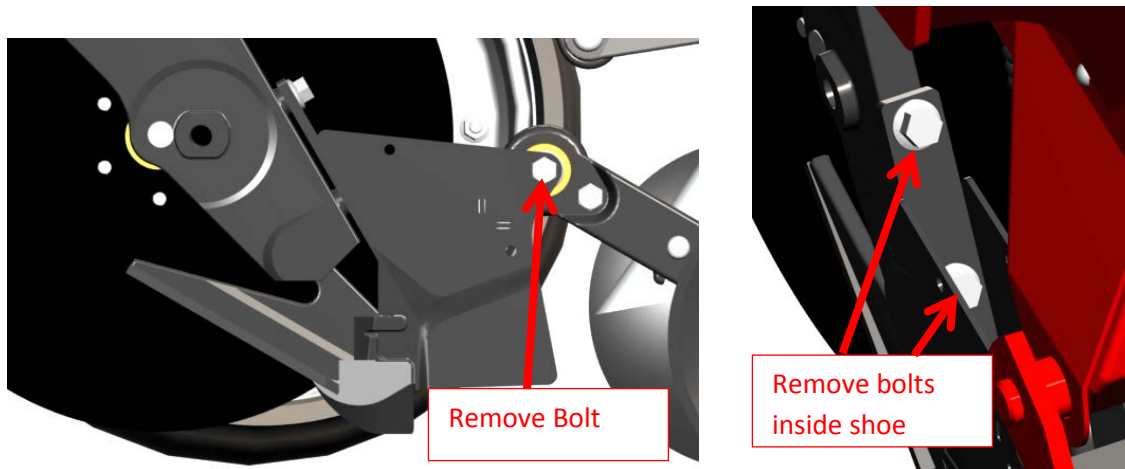


Illustration 1 – Removal of OEM shoe and firming point

- e) Install the stock firming point and the provided SpeedTube shoe onto the row unit in the same location the OEM shoe was mounted. Use the provided bolts with pre-applied Loctite. Do not reuse the stock hardware. Refer to illustration 2.
- f) Re-install closing system to new SpeedTube Shoe. Refer to illustration 2.

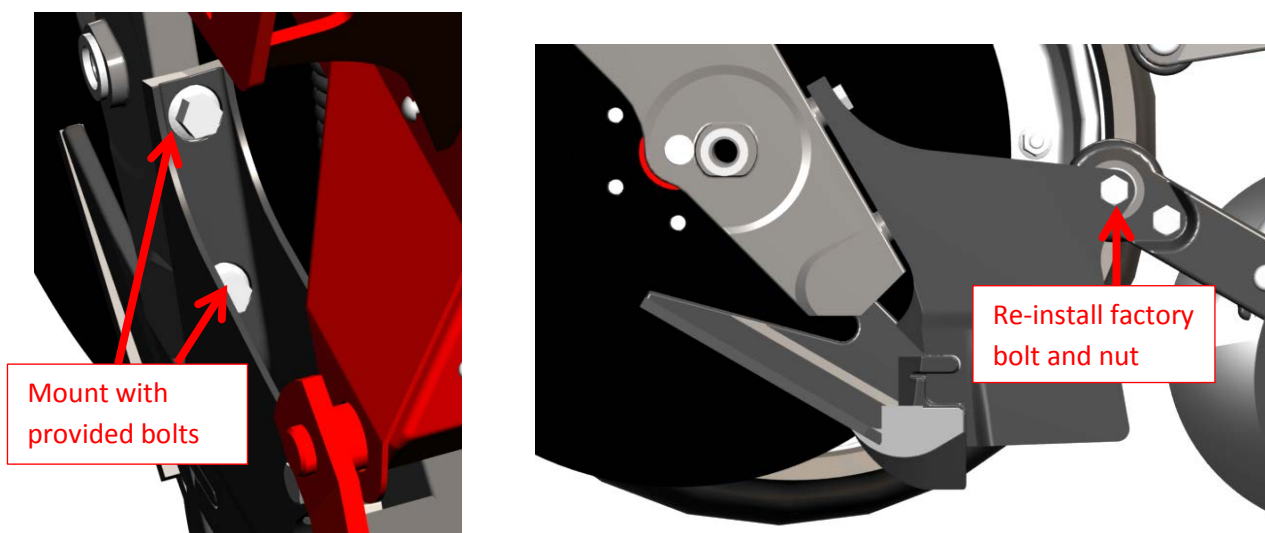


Illustration 2 – Installing SpeedTube compatible shoe

3) SpeedTube Retention Spring Installation

- a) Before the retention spring and SpeedTube can be installed, a portion of the top shank opening must be cut away for clearance. Locate the 12XX SpeedTube Cutout Template included in the SpeedTube Essentials Kit and align the front of the cutout template with the rear of the shank opening as shown in illustration 3.

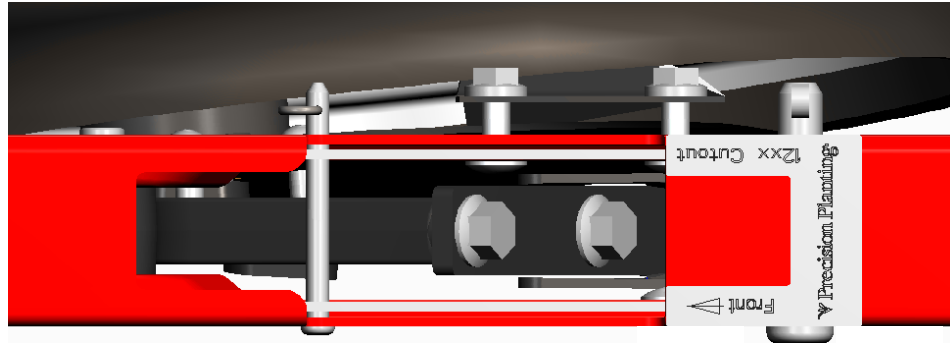


Illustration 3 – Cutout Template Location

- b) Mark the open area in the template, remove the template, and then cut away the area with an angle grinder and cutoff wheel (or similar tool). Refer to illustration 4.

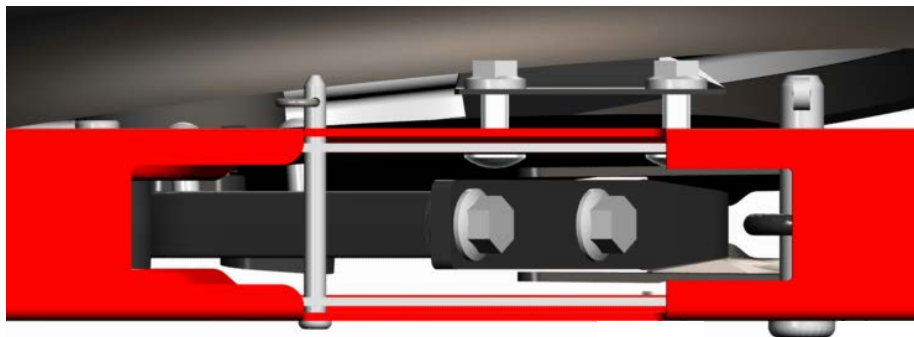


Illustration 4 – Shank Opening Modification

- c) Position the retention spring over the shank opening with the hooks facing the rear of the row unit as shown in illustration 5.

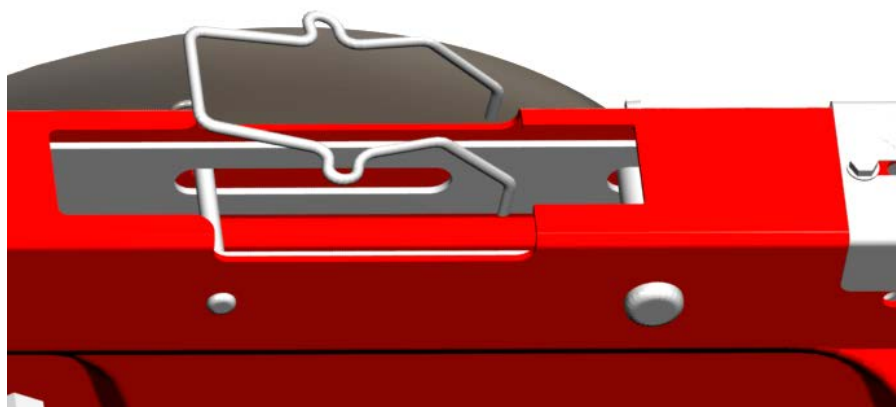


Illustration 5 – Retention Spring Installation

- d) Using a pair of channel locks (or similar tool) compress the spring behind the side loops. Slide the retention spring through the shank cutout and place the hooks around the rear clevis pin. Refer to illustration 6.

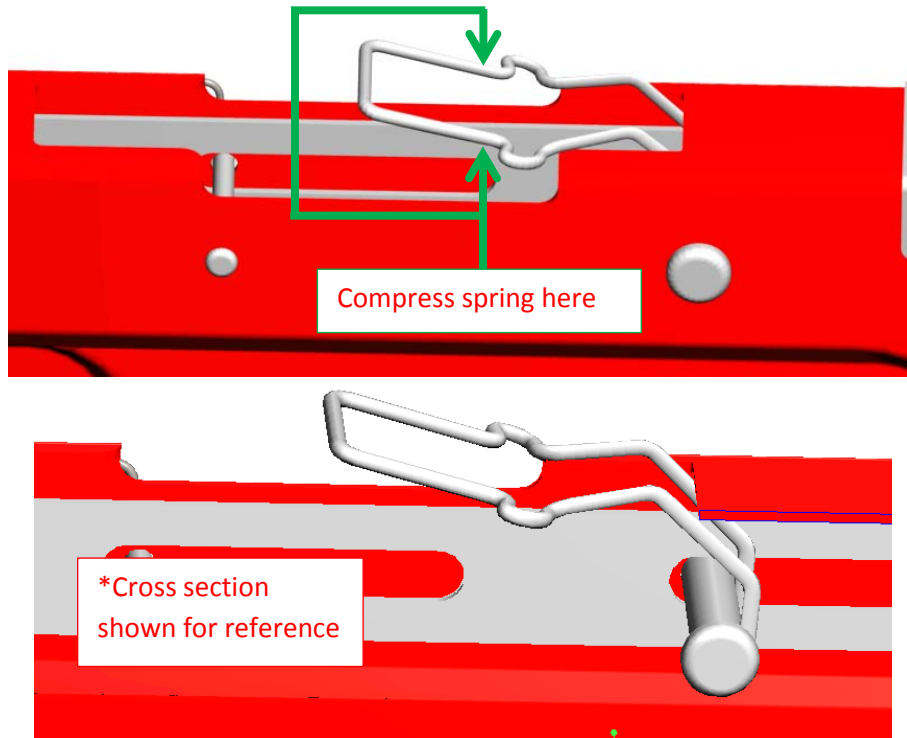


Illustration 6 – Retention Spring Installation

- e) Continue to compress the spring while pushing it down and under the sides of the shank cutout. This will lock the retention spring in-place. Refer to illustration 7.

Note: If necessary, the retention spring can also be installed by first removing the clevis pin. Position the retention spring and reinstall the clevis pin. The planter (row units) should be lifted when removing the clevis pin.

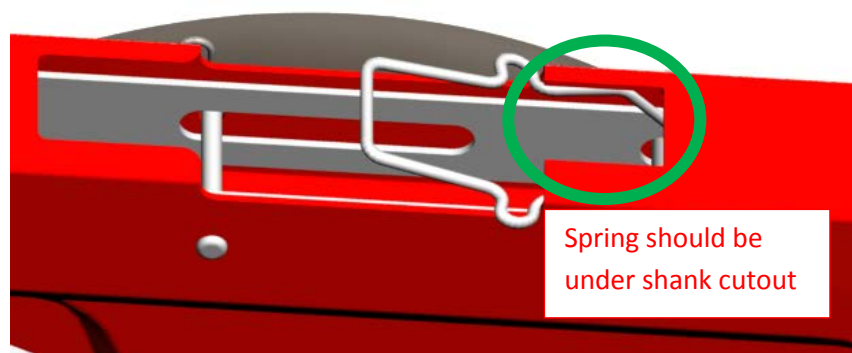


Illustration 7 – Retention Spring Fully Installed

4) SpeedTube Cover Installation

- a) Align the openings on each side of the SpeedTube cover over each loop on the retention spring. One side at a time, pull out on the cover and slide each loop in the respective opening. Push down on the front tabs to secure the cover. Refer to illustration 8.



Illustration 8 – SpeedTube Cover Installed

Note: The tabs on the outside of the SpeedTube cover can be used (along with zip ties) to secure the down force sensor wire.

5) SpeedTube Installation

- a) Lower the SpeedTube onto the retention spring so the front hook rests on the retention spring as shown in illustration 9. The SpeedTube should rest freely on the retention spring.

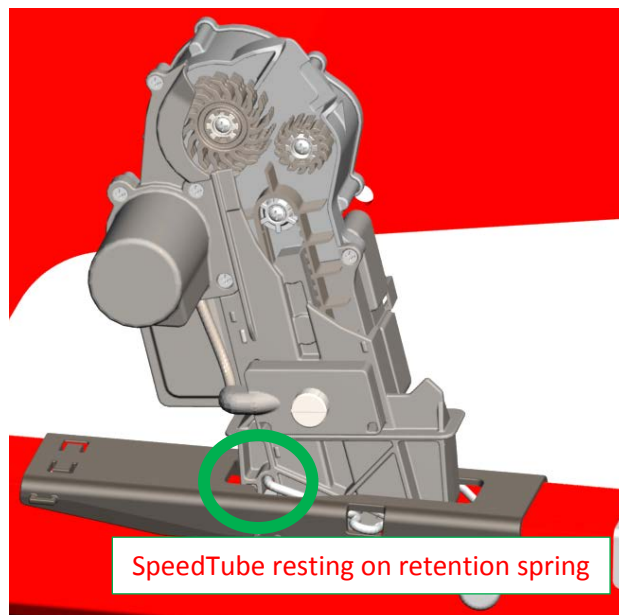


Illustration 9 – SpeedTube Installed

Note: The SpeedTube wiring clip will not be used on CASE 12XX machines. With the SpeedTube position further to the rear of the row unit, the SpeedTube y-harness will not have enough length when using the clip.

- b) Identify the 6 pin Deutsch plug on the Y-harness labeled “SpeedTube” and plug it into the SpeedTube module.
- c) 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.
- d) All wiring should be secure and routed to avoid contact with raised gauge wheels or other components.

4) 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 12.

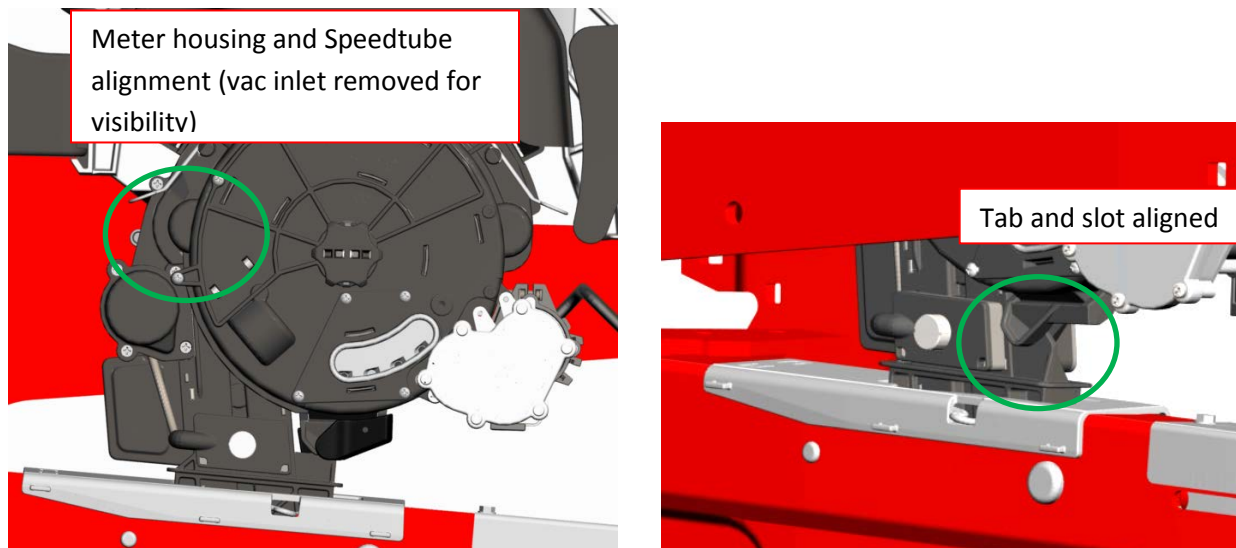


Illustration 12 – vSet 2 Meter and SpeedTube Interface

6) Installation Completion

- a) Reinstall the opening disk(s) with 1.5”-2” of contact (check multiple locations). Shim disks as necessary.
- b) Reinstall gauge wheel(s) according to Manufacturer’s instructions.