

HY RATE PLUS FLEXIBLE WIRE SHIELD INSTALLATION



The DICKEY-john Hy Rate Plus seed sensor is supplied with a flexible wire shield that is affixed to the sensor and seed tube during installation. The following instructions are specific to DICKEY-john part numbers: 46283-3000S1 (AGCO, Monosem NG Plus seed tubes) and 46283-3003S1 (John Deere “Flush Face” seed tube only).

IMPORTANT: The flexible wire shield is required and provides the following benefits:

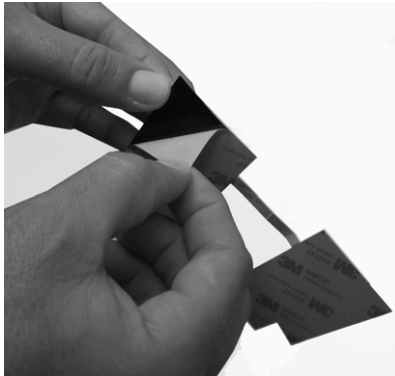
1. Secures the seed sensor during installation on the seed tube as the tie wraps are positioned and tightened.
2. Protects the wires that connect the photo voltaic cell to the sensor LED light source.
3. Shields the photo cell detector from sunlight which can result in undercounting seed population.

The installation will be the same for new installs as well as for upgrading existing sensors on seed tubes. If sensors were previously attached to the seed tube, cut the tie straps to separate the sensor from the tube, clean the seed tube and the sensor with a clean dry cloth, and follow the instructions below:

1. Remove the label backing from the flexible wire shield.

Figure 1

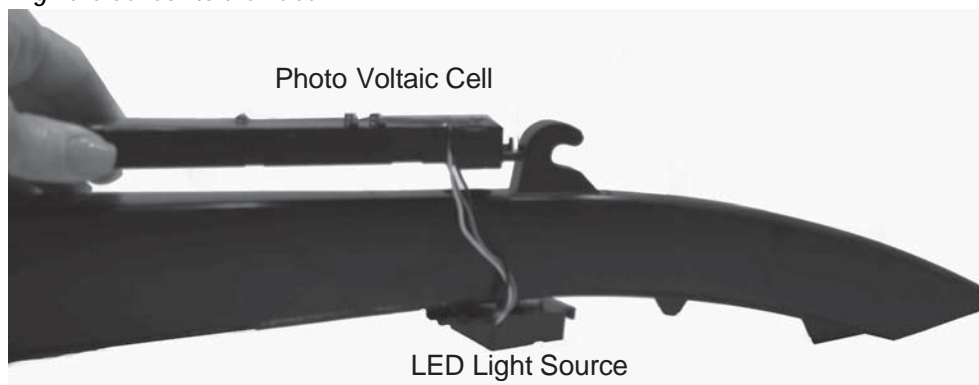
Remove Wire Shield Backing



2. Align the photo voltaic cell to the back of the seed tube and the LED light source to the front of the seed tube.

Figure 2

Align the Sensor to the Tube



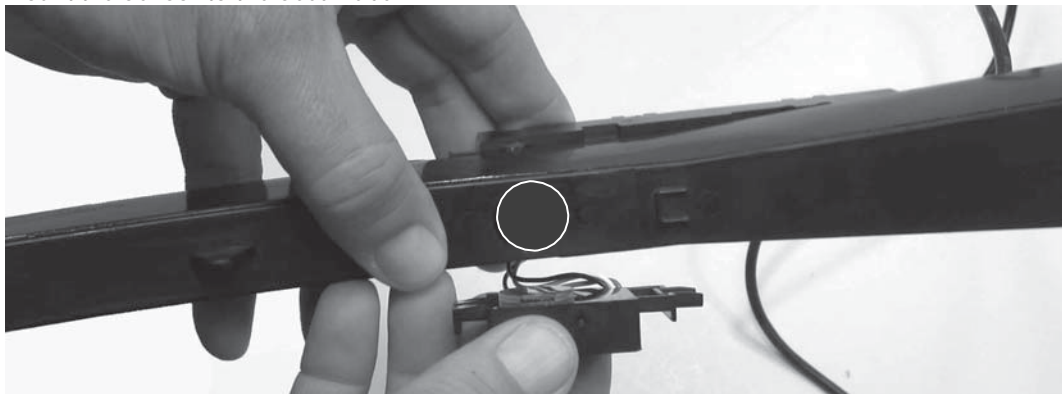
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3. Mount the sensor to the seed tube by placing the sensor lens in the holes on the top and bottom of tube.

Figure 3

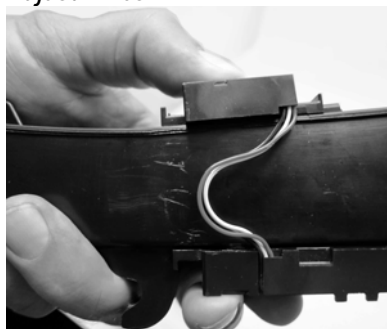
Mount the Sensor to the Seed Tube



4. Adjust wires to fit flush against the tube housing.

Figure 4

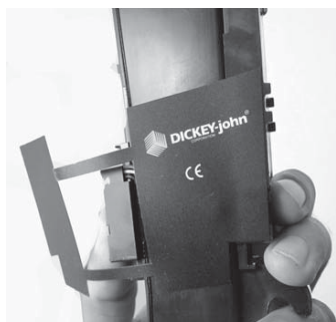
Adjust Wires



5. While holding the sensor to the tube, affix the flexible wire shield flush to the photo voltaic cell housing.
6. Press the wire shield against the seed tube housing to secure the wires underneath.
7. Wrap the bands of the label through the sensor tie wrap rails and press the flexible wire shield firmly to the other side of the tube with a flush alignment to the photo voltaic cell housing similar to the image in Figure 5.

Figure 5

Affix Flexible Wire Shield



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8. Form a loop with tie straps (2) and place into position through the sensor tie strap rails.
9. Tighten straps leaving no gaps between the straps and the sensor as shown in Figure 6.
10. Cut the tie strap excess that occurs above the fastening head of the tie straps.

Figure 6

Attach Tie Straps



If you have questions or need assistance, please contact Champion Industrial Equipment Technical Support at 613-938-2900.

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