

SeedSense®

**SRM and Load Cell Installation
John Deere 2100 Series Row Units**

 Precision Planting®

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John Deere 2100 SRM Installation — Cast Row Unit 2015+

Step 1:

Using the hole on the right hand side at the bottom of the John Deere goalpost bracket, install the SRM. Use the provided nut and bolt. Install the SRM in the upright position so the 12 pin plug is vertical.



Step 2:

Connect the SRM to the row unit harness. Ensure that all harnesses are routed in such a way to prevent pinching when row unit moves and prevent the harness from flexing at the SRM.

Note: Determine if you are installing a CAN expansion hub or will be using the ladder bracket. If you are installing a CAN expansion hub, you will not install the ladder bracket, so please skip step 3.

Step 3:

Secure the row harness to the ladder bracket using a zip tie as shown.



Step 4:

Secure the row harness to the CAN Expansion Hub using a zip tie as shown.



John Deere 2100 Load Cell Installation — Cast Row Unit 2015+

Step 1:

Begin by removing the seed hopper. Disengage the depth adjustment handle by rotating it 90 degrees so that it can easily rotate as shown in the picture below.



Step 2:

Standing at the back of the planter, remove the gauge wheel arm on the right hand side. There is a bolt and nut that are holding the gauge wheel in place that is indicated in the picture below. It will be necessary to remove those. The gauge wheel arm can be removed or slid outward on the mounting posts and rotated past the depth stop to be out of the way.

**Step 3:**

Remove the lock nut located at the bottom of the row unit shank as shown in the picture to the right. Do not remove the bolt.



Step 4:

On the left hand side of the row unit, remove the snap ring from the depth stop pin. Save the snap ring, it will be used for the Precision Planting load cell.

**Step 5:**

Pull the pin out of the row unit



Step 6:

Insert the Precision Planting load cell from the right hand side of the row unit and rotate the bracket into place so that the load cell bracket is snug against the side of the row unit shank. The hole in the load cell bracket should sit over the bolt at the back of the shank. Reinstall the snap ring on the left hand side of the row unit and tighten the lock nut to secure the load cell plate against the row unit.



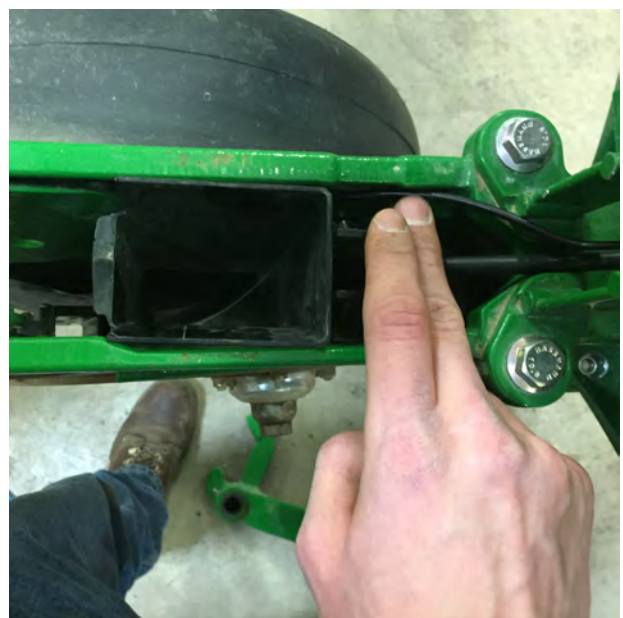
Step 7:

Route the load cell harness to the inside of the row unit and through the hole in the shank pictured below.



Step 8:

Continue to route the harness along the channel on the left hand side of the row unit. It may be necessary to use a zip tie to hold the harness in place. Detach the seed tube to route the harness alongside and past the seed tube.



Step 9:

Plug the load cell into the 4 pin Deutsch plug on the SRM. Use a zip tie to secure any excess harness length.

**Step 10:**

To complete the install, re-engage the depth stop and gauge wheel.

Monitor Set Up Notes

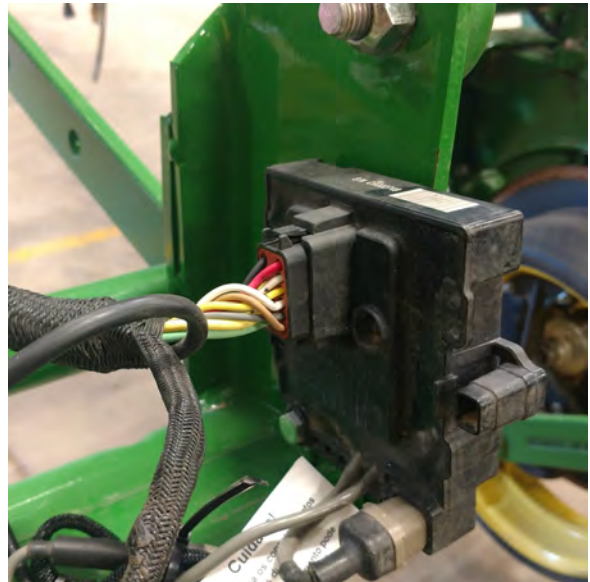
In a Gen 2 monitor select Setup and then touch the planter profile box. Select “Down Force Sensor Type” and then “Deere 2100 Load Sensor 2015+”. The cal factor for this load cell is 130.

The same screen can be accessed on a Gen 3 by clicking Setup and the Equipment.

John Deere 2100 SRM Installation — Pre 2015 Sheet Metal Row Unit

Step 1:

Using the hole on the right hand side at the bottom of the John Deere goalpost bracket, install the SRM. Use the provided nut and bolt. Install the SRM in the upright position so the 12 pin plug is vertical.



Step 2:

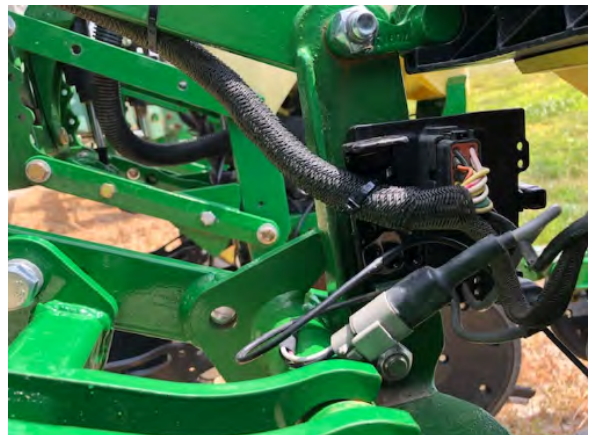
Connect the SRM to the row unit harness. Ensure that all harnesses are routed in such a way to prevent pinching when row unit moves and prevent the harness from flexing at the SRM.

Note: Do not overtighten zip ties when routing harness.

Note: Determine if you are installing a CAN expansion hub or will be using the ladder bracket. If you are installing a CAN expansion hub, you will not install the ladder bracket, so please skip step 3.

Step 3:

Secure the row harness to the ladder bracket using a zip tie as shown.



Step 4:

Secure the row harness to the CAN Expansion HUB using a zip tie as shown.



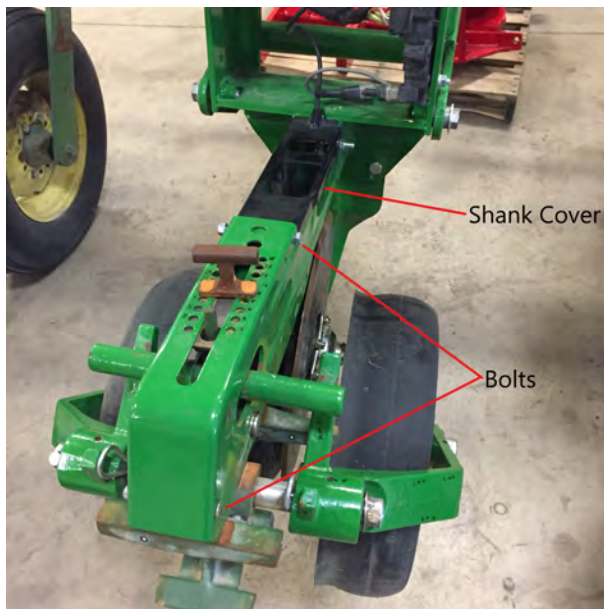
John Deere 2100 Load Cell Installation — Pre 2015 Sheet Metal Row Unit

Step 1:

Start by removing the seed hopper. It will not be necessary to remove the gauge wheels for pin installation.

Step 2:

Remove the depth adjustment cover and shank cover. The cover can be removed by removing two bolts at the front and back of the cover.



Step 3:

Using a punch and hammer, remove the spring pin and install the provided washer and spring pin.

Note: If the OEM spring pin and washer are still on the row unit and are not severely worn, replacing them is not required.



Step 4:

Remove the snap ring and pin from the right hand side of the row unit. Save the snap ring to be used with the Precision Planting load cell.

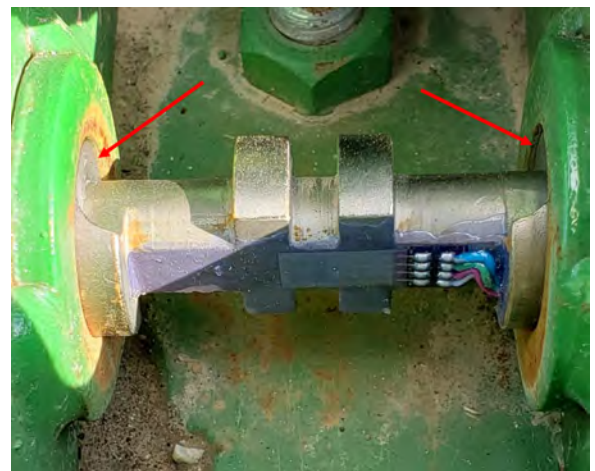


Step 5:

Insert the two 1 mm thick supplied shims on the load cell, then slide the sensor through the row unit shank from the right side (when standing behind the planter) of the row unit . The shims may need to be held in place as the sensor is inserted.



The load cell must be centered in the row unit shank when installed. The best way to check if the sensor is centered in the row unit is to install it without the OEM depth pivot arm and look to see that the edges of the sensor are flush or slightly inset with the OEM welded washers as shown.



If the load cell is not centered in the row unit shank at this point, use the extra supplied washer as a replacement of, or in addition to, the two 1 mm thick shims to properly center the load cell. After installing the sensor and the OEM depth pivot arm, the sensor should look as shown.



Step 6:

Use the bolt holes shown at the rear of the row unit along with the provided bolt, bushing, nut and lock washer to hold the load cell bracket in place. A gap will be present along the row unit shank and the load cell bracket after the bracket is secured.



Step 7:

Route the harness outside through the row unit but around the cast depth adjustment piece. Then run the harness through the hole in the row unit shank pictured below, which is above the opener disks. Move the harness along the inside of the row unit shank and above the scraper assembly. Use a zip tie to hold the harness in place if necessary. Lift the seed tube out and route the harness above and behind the knobs that the seed tube snaps into.



Step 8:

Connect the Precision Planting load cell with the 4 pin Deutsch connector on the SRM. A zip tie may be used to secure extra harness length. Reinstall the black, plastic shank cover and depth adjustment cover.

**Step 9:**

Re-install the snap ring on the Precision Planting load cell using the original John Deere snap ring on the outside groove. There may be some instances where the shank width is narrow enough that the inner groove can be used.

**Monitor Set Up Notes**

In a Gen 2 monitor select Setup and then touch the planter profile box. Select “Down Force Sensor Type” and then “Deere 2100 Load Sensor”. The cal factor for this pin is 150.

The same screen can be accessed on a Gen 3 by clicking Setup and the Equipment.