John Deere® MaxEmerge™ 2/Plus/XP/5 Planters

Row by Row Load Sensor Installation Instructions
PN: 2006433-ENG REV. B
Installation Overview

Required Parts

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Qty *</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002817-6</td>
<td>2</td>
<td>Cable tie – 6” black</td>
</tr>
<tr>
<td>4003104</td>
<td>2</td>
<td>Wire routing clip – 1/8” thick panel</td>
</tr>
<tr>
<td>4003508</td>
<td>1</td>
<td>Loctite - 0.5 ml capsule</td>
</tr>
<tr>
<td>4003918</td>
<td>1</td>
<td>Cast load cell sensor assembly - DownForce (JD)</td>
</tr>
</tbody>
</table>

* Quantities listed are per row unit

Preliminary Installation Requirements

**WARNING:** Implement must be resting on hydraulic safety stops before beginning installation. Do not rely on hydraulic system alone to support implement. Hydraulics can fail – resulting in serious injury or death.

Hydraulic components of Ag Leader down force system and uplift spring (if applicable) should be installed prior to installing electronic components. Hydraulic components and uplift springs will dictate where cables for electronics must be routed.

Installation Procedure

1. Place planter in raised position. There should be no pressure on gauge wheels. If planter cannot be raised for this procedure, move depth adjustment to max-depth to remove any pressure that might be exerted on groove pin.

2. Remove depth adjustment groove pin by removing snap ring on either side of shank assembly

  **NOTE:** If groove pin is rusted in place, a punch may be required for removal.
3. **OPTIONAL STEP:** Remove a gauge wheel arm (right or left – does not matter) to make it easier to remove depth adjustment lever assembly in the following step. This is not required, but could make next step easier.

4. Remove depth adjustment lever assembly from shank by dropping it down toward ground.

5. Remove rocker from depth adjustment lever.

6. Remove T-handle from depth adjustment lever by removing snap ring.
7. Install rocker using T-handle with original bolt, compression spring and snap ring onto provided gauge wheel sensor. Apply provided Loctite® to bolt prior to installing rocker.

**NOTE:** MaxEmerge 2 has a different thread. Get new bolt from JD dealer.

8. Reinstall depth adjustment lever into shank in the same manner that it was removed. Lever should be oriented so etched label is facing right and cable is pointing toward front of row unit.

9. Reinstall groove pin and snap ring to secure depth adjustment lever in shank. If groove pin is corroded, clean up and apply NEVER-SEEZ® (or equivalent) before reinstalling.

10. Route cable of gauge wheel sensor forward through shank.

**NOTE:** Make sure there is enough slack in cable to enable depth adjustment lever to be moved to any position before securing cable. Failure to do so may result in gauge wheel sensor damage.

11. For The MaxEmerge 2/Plus/XP, use the provided wire routing clips (PN 4003104) and cable ties to route the cable as shown.
12. For the MaxEmerge 5, route the cable through the channel as shown.

13. Reinstall gauge wheel.

14. Connect the Load Pin to the appropriate lead on the RCM I/O Cable. Make sure cable plug is fully seated into module receptacle by verifying that the locking tabs of plug are engaged.

15. Repeat steps for each row unit that will be equipped with a gauge wheel sensor.