Diagnosing Seed Delivery Issues

Seed Bridging in Tank

Symptoms:
1. No seed in the mini-hopper.
2. Lots of air at the mini-hopper.

Ways to Resolve:
1. Verify the CCS pressure is set to the recommended setting for the crop being planted (Operators Manual).
2. Verify tank agitator is turning when the CCS fan is on.
3. Verify the nozzle inserts are installed for recommended crops and taken out for non-recommended crops.
4. Verify the agitator pins on the agitator shaft are centered between the tank nozzles.
5. Increase CCS pressure by 1” until seed flows properly from the CCS tanks to each row unit.

Seed Plugging in Hose

Symptoms:
1. No seed in the mini-hopper.
2. Very little airflow at the mini-hopper.
3. Seed is stuck in the CCS delivery hoses between the tanks and the row-unit.
4. Seed is stuck in the elbow of the mini hopper.

Ways to Resolve:
1. Verify CCS tank lids to ensure that all lids are closed tightly.
2. Verify the CCS pressure is set to the recommended setting for the crop being planted (Operators Manual).
3. Verify the nozzle inserts are installed for recommended crops.
4. Unplug the agitator motor to allow for less seed picked up by the nozzles.
5. For small seeds, install tank nozzle inserts.

MaxEmerge™ 5 Meter Performance

- Verify the correct seed disk is being used for the seed being planted.
- To verify vacuum and seed disk performance:
  • Set recommended vacuum level and remove hopper lid.
  • Turn meter by hand.
  • Verify that only one seed is in each cell (A) on disk.
  • Adjust vacuum if necessary to improve singulation.

- For seed varying widely in sizes and shapes, a flat disk and a Doubles Eliminator provide better singulation.
- Ensure all seed disks are clean of any build-up.
- Start with Doubles Eliminator set at 5 and adjust as necessary for extra large or small seed.
- For meters with new seals, apply Graphite Lubricant TY25797 to the outside of the seed disk.

ExactEmerge™ Meter Performance

## RECOMMENDED INITIAL SETTING FOR COMMON CROPS

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>Soybeans (Over 2000 seeds/lb)</th>
<th>Small Corn (Over 2000 seeds/lb)</th>
<th>Medium Corn (Between 2000 and 1200 seeds/lb)</th>
<th>Large Corn (Less than 1200 seeds/lb)</th>
<th>Cotton</th>
<th>Sorghum</th>
<th>Sunflowers</th>
<th>Large Popcorn</th>
<th>Sweet Corn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure (Inches H₂O)</td>
<td>12</td>
<td>10</td>
<td>12</td>
<td>16</td>
<td>10</td>
<td>8</td>
<td>6</td>
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<td>N/A</td>
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<tr>
<td>Small Seed Nozzle Inserts</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Small Seed Discharge Elbows</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</table>

### CCS PLANTER ADJUSTMENT GUIDE

**Set the tank pressure according to machine and crop when hoppers are full and machine is not moving.**

**This guide does not replace your Operators Manual. Always read the Operators Manual before operating equipment.**

### Product

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>Pressure (Inches H₂O)</th>
<th>Small Seed Nozzle Inserts</th>
<th>Small Seed Discharge Elbows</th>
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<tbody>
<tr>
<td>Soybeans</td>
<td>12</td>
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<td>No</td>
<td>12</td>
<td>No</td>
<td>No</td>
<td>12</td>
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<tr>
<td>Small Corn (Over 2000 seeds/lb)</td>
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<td>No</td>
<td>12</td>
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<td>No</td>
<td>10</td>
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<td>No</td>
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<tr>
<td>Medium Corn (Between 2000 and 1200 seeds/lb)</td>
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<td>No</td>
<td>12</td>
<td>No</td>
<td>No</td>
<td>12</td>
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<tr>
<td>Large Corn (Less than 1200 seeds/lb)</td>
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<td>No</td>
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<td>No</td>
<td>No</td>
<td>16</td>
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<tr>
<td>Cotton</td>
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<td>No</td>
<td>Yes</td>
<td>10</td>
<td>Yes</td>
<td>Optional</td>
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<tr>
<td>Sorghum</td>
<td>8</td>
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<td>10</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Sunflowers</td>
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<tr>
<td>Sweet Corn</td>
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</tbody>
</table>

### Crop Stand = Seed Singulation + Seed Placement + Agronomic Factors

**Seed Singulation** = Seed Selection + Seed Disk Selection + Vacuum Level + Field Conditions + Maintenance

**Seed Placement** = Row Unit Maintenance + Speed + Field Conditions + Planter Attachments + Observation & Adjustment

**Agronomic Factors** = Seed Germination + Soil Temperature + Moisture + Nutrients + Pest Control + Weather