Yield-Pro Planters Non-Folding

Document # PLUS100C-0000A       Date: September 30, 2014

Models Affected: YP425A, YP625A, YP825A

General Information

Proper servicing and adjustment is key to the long life of all farm equipment. With careful and systematic inspection of equipment, costly maintenance, time and repair can be avoided. The following information will assist with recommended servicing and adjustments:
**Chain Maintenance**: Inspect all drive chains for tension and free movement. Improperly adjusted or stiff chains can climb or bind on the drive sprockets and cause erratic seed spacing.

**Hydraulic Hose Hookup (Pull-Type)**: Yield-Pro planters require 3 tractor outlets if they are contact drive, and 4 if equipped with a hydraulic drive. **NOTE:** If using a planter with the old style hydraulic hoses and color ties, refer to the hydraulic key below for proper hook up.

<table>
<thead>
<tr>
<th>Outlet</th>
<th>Function</th>
<th>Flow (gal./min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Lift (Blue)</td>
<td>12</td>
</tr>
<tr>
<td>2</td>
<td>Marker (Green)</td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td>Fan (Black)</td>
<td>Desired Pressure</td>
</tr>
</tbody>
</table>

**Motor Return**

- **Fan - Return**: Continuous 0-15 GPM
- **Case Drain***: Fan - Drain* Continuous 0-3 GPM

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**Hydraulic Hookup (Old Style)**

<table>
<thead>
<tr>
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<th>Flow (gal./min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Lift (Blue)</td>
<td>12</td>
</tr>
<tr>
<td>2</td>
<td>Marker (Orange)</td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td>Fan (White)</td>
<td>Desired Pressure</td>
</tr>
</tbody>
</table>

**Motor Return**

- **Fan - Return**: Continuous 0-15 GPM
- **Case Drain***: Fan - Drain* Continuous 0-3 GPM

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**Leveling The Planter (Pull-Type)**: To level the planter, the distance from the bottom of the main-frame tube to the ground must be 26” with the planter lowered into the planting position. This normally requires a hitch height of 14 1/2” measured from the bottom of the tongue to the ground. To obtain the correct height:

1) Remove the two hitch bolts and reposition the hitch on the tongue.

2) If the target tool bar height cannot be achieved with the frame level, and adjustment can be made by relocating the wheel axles in the arms. This will lower the planter by about 2”.

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**Row Unit Down Pressure:** Row-unit springs provide the down pressure necessary for the row-unit discs to open a seed trench. The springs also provide down force on coulters when using optional row mounted coulters.

To adjust the down pressure, use a 1 1/8in open end wrench or the provided tool stored under the walkboard. Position the wrench on the adjusting nut and pull back and down on the wrench to adjust the cam to a new setting. **Note:** Do not set all rows any higher than notch 4 as using this setting on all rows will create an uneven depth control and improper function.

Minimum and maximum settings are indicated by the position of the adjusting cam. Each notch on the adjustment cam will increase or decrease the pressure.

**T-Handle Adjustment:** T-handles set the planting depth by limiting how high the side depth gauge wheels ride relative to the opener discs.

To adjust the seed depth, move the T-handle forward to shallower up the depth or backwards to increase the seed depth. **Note:** For every parallel adjustment, the seed depth changes by a 1/4 inch, while staggering adjusts an 1/8 inch.

**Side Gauge Wheel Adjustments:** If the side gauge wheels are adjusted correctly, the wheel should touch the disc blade between 5 and 7 o’clock when raised up, but drop fully when released. To adjust the side gauge wheel:

1) Raise the planter just enough to remove any weight from the side depth gauge wheels.

2) Loosen the hex-head bolt (1) and move the wheel and arm out on the o-ring bushing.

3) Loosen the pivot bolt (2) and turn the hex adjuster (3) so that the indicator notch (4) is at 5 o’clock to 7 o’clock.

4) Move the side gauge wheel in so that it contacts the row unit disc and re-tighten the hex head bolt (1) to clamp the arm around the bushing and shank.

5) Once tight, check the wheel-to-disc contact by lifting the wheel 2 inches. When let go, the wheel should fall freely. **Note:** If the wheel does not fall freely, continue to adjust until the desired movement is achieved.
**Range Sprockets:** Range sprockets provide coarse control of seed rate.

All Seed Rate charts specify a DRIVING and DRIVEN sprocket combination for the Range. Crops with more than one range are noted as “LOW RANGE” or “HIGH RANGE” at the top of each chart. To change the Range:

1) Rotate the idler plate against the spring (5) to disen-gage the idler. Remove the chain.

2) Remove the lynch pin (6) from the DRIVING sprocket shaft, along with the ones on the storage shaft.

3) Exchange sprockets so that the new DRIVING and DRIVEN sprocket tooth counts (stamped on the sprockets face) match the desired seed rate and re-pin all shafts.

4) Remount the chain and install the spring idler back to it’s original position.

**Transmission Sprockets:** Transmission sprockets provide the fine control of desired seed rates. Each chart row provides a rate adjustment of 2-3%. To change the Transmission:

1) Rotate the idler plate against the spring (7) to disen-gage the idler. Remove the chain.

2) Remove the lynch pin (8) from the DRIVEN sprocket shaft, along with the ones on the storage shaft.

3) Exchange sprockets so that the new DRIVING and DRIVEN sprocket tooth counts (stamped on the sprockets face) match the desired seed rate and re-pin all shafts.

4) Remount the chain and install the spring idler back to it’s original position.
Liquid Rate Setting Steps:
Determine the application rate desired during planting, along with determining the sprocket paring and pump adjuster setting required to provide that rate.

1) Check the current sprocket setup:
Low Range uses the 15T sprocket (9) as the Driving and Driven (10).
High Range uses the 47T sprocket (9) as the Driving and Driven (10).

2) To change the Range, loose then idler (11) and remove the lynch pins from the sprockets shaft.
3) Exchange sprockets by selecting ones from the sprocket storage (12). Install the sprockets and re-pin.
4) Re-engage the idler for 3/8 inch slack in the lower chain span.

Setting Pump Adjuster:
5) Using the box-wrench end of the CDS-John Blue 113918-01S tool (13), loosen the setting pointer nut (14).
6) Use the other end of the tool to rotate the dial (15) to the desired setting and re-tighten the pointer nut (14).

Shutter Adjustment:
The seed inlet shutter regulates the volume of bulk seed presented to the seed disk. Known as seed pool slopes, they need to be set for each different material being used. Original production meters included 6 settings for the shutter. Current production meters have 3 additional settings midway between 1 & 2, 2 & 3 and 3 & 4.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Setting Typically Used For</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top</td>
<td>Closed: Row Shut Off: Meter Re-Fill</td>
</tr>
<tr>
<td>I</td>
<td>Small seeds, such as Milo with little or no treatments</td>
</tr>
<tr>
<td>II</td>
<td>Small treated seeds and edible beans (Soybeans)</td>
</tr>
<tr>
<td>III</td>
<td>Corn, round popcorn</td>
</tr>
<tr>
<td>IIII</td>
<td>Large corn, or heavily treated corn</td>
</tr>
<tr>
<td>Bottom</td>
<td>Wide Open: Clean-Out</td>
</tr>
</tbody>
</table>