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:
Hydraulic Hose Hookup:

Great Plains hydraulic hoses have color coded handle grips to help hookup hoses to the tractor outlets. Hoses with the same color use the same remote. Note: Yield-Pro planters require three hydraulic outlets if they are contact driven, or four if they are equipped with a hydraulic drive.

The following table will assist with hooking up the planters hydraulic system:

<table>
<thead>
<tr>
<th>Tractor Outlet</th>
<th>System</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/Fold (Gray)</td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td>Fan (Black)</td>
<td>Adjust for RPM</td>
</tr>
<tr>
<td>Motor Return</td>
<td>Fan- Motor Return</td>
<td>Continuous 0-15</td>
</tr>
<tr>
<td>Case Drain</td>
<td>Fan- Motor Case Drain</td>
<td>Continuous 0-15</td>
</tr>
<tr>
<td>4</td>
<td>Hydraulic Drive (Yellow)</td>
<td>12</td>
</tr>
</tbody>
</table>

Leveling The Planter:

1) Completely unfold the planter and pull forward so that the front gauge wheels are in the planting position.

2) Lower the tractor’s 3-point so that the top of the tongue measures 42 inches for YP1625(A)’s and 46 inches for YP1225(A)’s from the ground. On a YP2425(A), YP30(A), YP(40) or YP4425(A) adjust the 3-point so that the top of the tongue measures 41.5 inches off the ground. This adjustment affects the toolbar height and must be fine tuned to achieve an overall toolbar height (at the pivots) of 26 inches. Note: This measurement should only be checked at the pivots.

3) Once the frame height at the pivots is 26 inches, set the tractor’s 3-point down stop for future reference.

4) Measure the toolbar at the end of the wings, if the toolbar does not measure 26 inches from the ground, adjust the gauge wheel eye-bolts accordingly. Note: Eye-bolt adjustments are easier if the planter is lowered to the ground.
5) At this point the planter should be level front-to-rear and side-to-side. With the planter unfolded and lowered in the field ready position, place a block ahead of the wing gauge wheels and pull ahead slightly to tension the pull bars. The ends of the toolbar should be 0-1/4 inches forward of center. Note: Be very cautious when leveling this unit. Improper tongue height has a large affect on the end-to-end levelness of the planter. If these settings were done before going to the field, re-check the 26 inch measurement at the toolbar pivots and adjust the tractor 3-point as necessary.

Adjust 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 needed on optional row unit coulters.

1) Use a 1 1/8 inch open ended wrench or the provided toll stored under the walk board. 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 higher than notch 4 as using this setting on all rows will create an uneven depth control and improper function.

2) Minimum and maximum settings are indicated by the position of the adjusting cam. Each notch on the adjusting 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.

1) To adjust the seed depth, move the T-handle forward to shallow 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 adjusting an 1/8 inch.
**Side Gauge Wheel Adjustment:**

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 gauge wheel:

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

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 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 against the bushing and shank.

5) Once tight, check the wheel-to-disc contact by lifting the gauge 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.

**Shutter Adjustment:**

The seed inlet shutter regulates the volume of bulk seed presented to the seed disk. Known as seed pole 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, 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, Milo with little or no treatment</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, heavily treated</td>
</tr>
<tr>
<td>Bottom</td>
<td>Wide open: Clean-out</td>
</tr>
</tbody>
</table>
Drive Speed Range & Transmission Sprocket Adjustment:

Prior to adjusting the sprockets, choose a sprocket pairing for the seed rate trying to be achieved.

To adjust the Speed Range:

1) Loosen the Range idler (5) and remove the chain (6).
2) Remove the lynch pins (7) from the shafts and install the new speed Range sprockets. Note: Additional sprockets are located behind the reversing drive plate.

To adjust the Transmission:

1) Loosen the Transmission idler (8) and remove the drive chain (9)
2) Remove the lynch pins (10) from the shafts and install the new sprockets and idlers as shown.
3) Move the idler so that the chain has a 1/4 inch slack in the longest span.
4) Tighten the idlers and re-install the lynch pins.

Implement Lift Switch Adjustment:

The implement lift switch informs the seed monitor about the lowered/raised status of the planter. On all planters, the monitor only counts seed when the drive is activated and the planter is lowered. On hydraulic drive planters, the switch also enables or disables the hydraulic drive.

To adjust the implement lift switch:

1) Loosen the bolts holding the implement lift switch bracket (11) and rotate the switch (12) and bracket away from the frame.
2) Lower the planter to the height at which seed delivery should begin and rotate the switch towards the frame until the spring actuator (13) just touches the frame.
3) Rotate the switch in until it clicks and tighten the bolts to secure it in place. Be sure that the frame will not crush the lift switch when the planter is fully loaded. Note: It may be necessary to loosen the screws holding the implement lift switch and rotate it slightly on the bracket.