

FIELD ADJUSTMENTS

YIELD-PRO PLANTER with Air Pro Meters



4025A

3025A

ADJUSTMENTS BEFORE GOING TO THE FIELD

General Maintenance:

- 1). Refer to the operator's manual for proper lubrication intervals and maintenance schedules.
- 2). Inspect the tire pressure of all tires.

Tire Pressure		
Size	Location	Pressure
395/55B 16.5	Transport	60 PSI

- 3). 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.

General Information:

- 1). Make sure all 3-point hitch latches are properly fastened and that all safety lighting is properly installed and functioning correctly.
- 2). Hook up hydraulic hoses as follows:

Hydraulic Hookup				
Outlet	Color	System	Flow (gal./min.)	Timer
1	Blue	Lift	12	Full lift less ½ sec.
2	White	Marker / Fold / Aux.	6	Full Cycle
3	Orange	Fan	Adjust for 2900 RPM	Continuous
Motor Return		Fan – Motor Return	Continuous 0-15 GPM	N/A
Case Drain		Fan – Motor Case Drain	Continuous 0-3 GPM	N/A
4	Yellow	Hydraulic Drive	12 Gal.	Continuous

YP4025A and YP3025A Field Adjustments - *continued*

Initial Planter Leveling:

- 1). Unfold the planter and pull forward so front gauge wheels are in planting position.
- 2). Lower the tractor's 3-Point or hydraulic hitch so the top of the tongue is between 41 to 42" .

NOTE: This is only a starting point and must be fine tuned to achieve the final toolbar height.

- 3). Lower the planter frame to the ground. Measure between the ground and the center of the planter frame. The frame height at the pivots should be 26" .

NOTE: This height should only be checked at the pivots.

- 4). Measure the toolbars at the end of the wings. The frame height should be 26" .

Adjust the eyebolts if necessary.

Note: Eye-bolt adjustments are easier if the planter is first lowered to the ground to remove some of the force on the cylinder.

- 5). If these adjustments are made on a hard surface, the opener parallel arms will be above parallel. When toolbar height is correct and the planter is in the field in planting conditions, the front pivot (A) of the parallel arms should be no more than 1 inch higher than the rear pivot (B).
- 6). At this point the planter should be level front-to-rear and side-to-side. With the planter unfolded and lowered in the field 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" to 1/4" forward of the center.

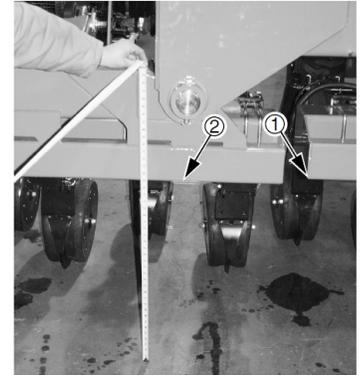
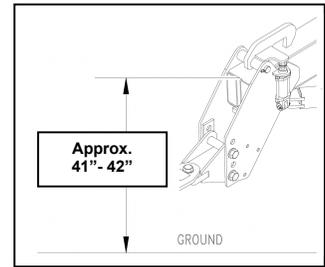
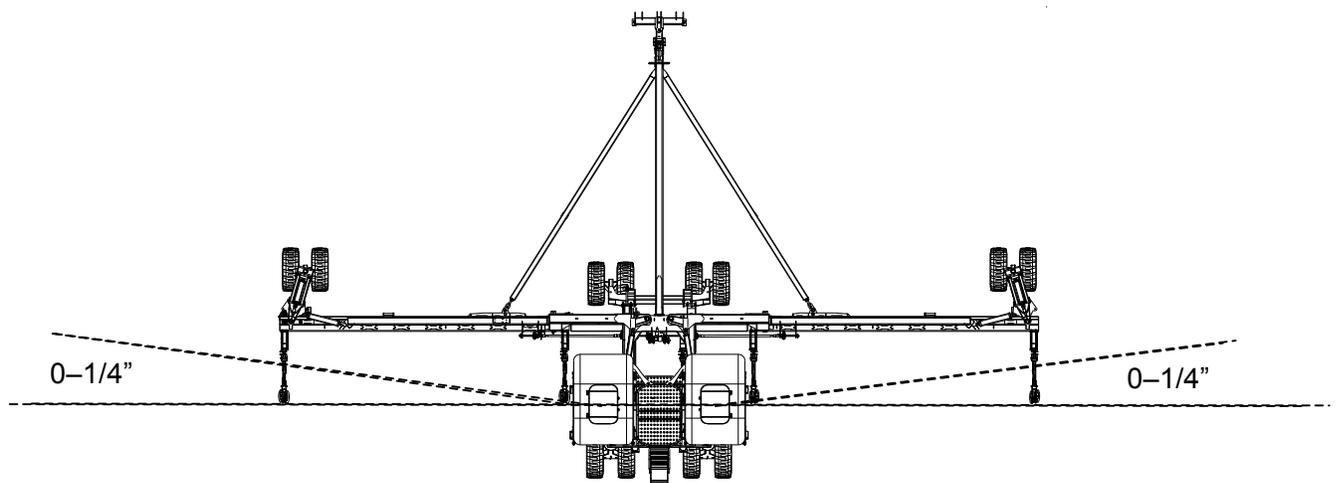
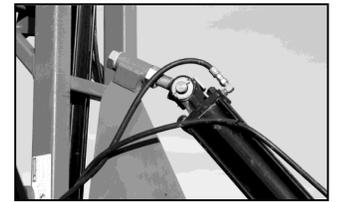


Figure 12
Wing/Center Level Check

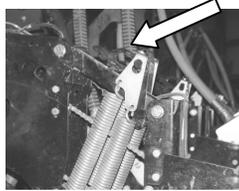
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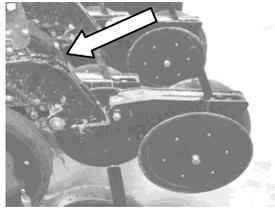
YP4025A and YP3025A Field Adjustments - *continued*

25 Series Initial Planter Settings:

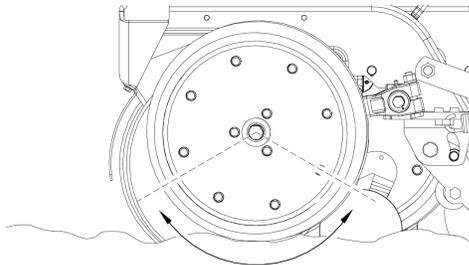
- 1). Adjust the unit mount coulters $\frac{1}{4}$ " above (shallower) than the opener discs.
- 2). Adjust the row cleaners as outlined in the operator's manual.
- 3). Adjust the opener down pressure to the correct initial setting. (A wrench is provided to make this adjustment and is stored under the walk board, or an $1\frac{1}{8}$ " wrench can also be used.)
 - a). Standard planter with no unit mount attachments planting into conventional tillage: 1st notch – lightest setting.
 - b). Standard planter with row cleaners in conventional to minimum tillage: 2nd notch from lightest setting.
 - c). Standard planter equipped with a unit mount coulters planting in no-till conditions: 2nd notch from lightest setting.
 - d). Planter with frame mounted coulters or row cleaners in conventional to minimum tillage. 1st notch – lightest setting.



- 4). Set the opener depth so that 7 holes are showing above the T-handles – this is approximately $1\frac{3}{4}$ " of seed depth.



- 5). Raise the side depth arm. If adjusted correctly, it should touch the disc blade between 5 and 7 o'clock position, but drop fully when released. (Proper adjustment instructions are outlined in the operator's manual.)



- 6). Place the closing wheel pressure handle in the lightest setting, the first position from front.
- 7). If you have a twin row planter and you wish to time the meters so all plants are staggered, this can be accomplished by setting the meter drive sprockets to match the chart found in the "seed rate charts" book or the Operators Manual.

NOTE: These are initial settings and may be adjusted as needed.

CAUTION: Always start at the lowest possible opener down pressure spring setting. This is important because as the pressure is increased, it can have a negative impact on the overall flexibility of the planter. Do not use any setting that appears to raise the toolbar.

YP4025A and YP3025A Field Adjustments - *continued*

Initial Metering System Setting:

Recommended Fan Speeds

YP4025A	Seed Hopper*	Bulk Box
Initial Fan Speed	2900 rpm	2600 rpm

* This assumes a 2007+ Great Plains hopper, or older hopper with the vent line update. For an older unvented hopper, use the rpms recommended for ProBox.

- 1). Setting the seed rate:
- 2). You first need to select the proper Seed Disks for your desired crop to be planted. There are seed disks for corn, soybeans and milo. There are also blank disks for shutting off rows. You will need to know the size and type of your seed, the row spacing and the population that you will be applying. Using this information you can refer to the seed rate manual for assistance in seed disk selection and settings.
- 1) 3). The next step is setting the shutter adjustment. 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. The seed inlet shutter regulates the volume of bulk seed presented to the seed disk. There is what is known as seed pool slopes that need to be set for each different material that is to be used. Refer to the operator's manual for settings on the shutter and seed pool.

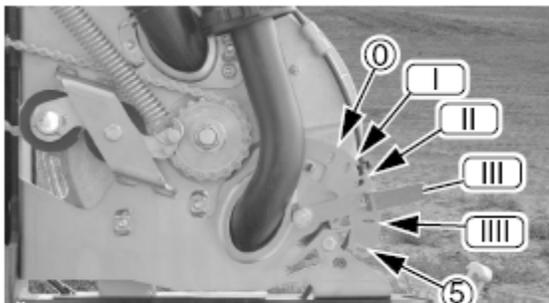


Figure 85
Seed Inlet Shutter

Setting	Setting Typically Used For
Top (0)	Closed: Row Shut-Off, Meter Re-Fill
I (1)	Small seeds, such as Milo, with little or no treatments
II (2)	Small treated seeds and edible beans (such as Soybeans)
III (3)	Corn, round popcorn
IIII (4)	Large corn, or heavily treated corn
Bottom (5)	Wide Open: Clean-Out

Current production meters have 3 additional settings midway between 1 & 2, 2 & 3, and 3 & 4.

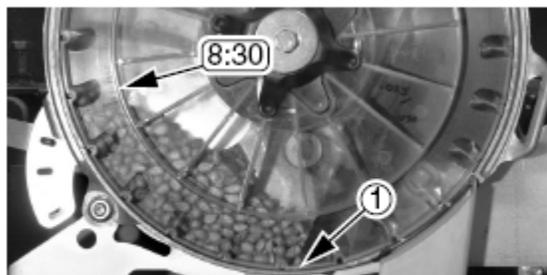


Figure 88
Corn: Seed Inlet Shutter at: 3

YP4025A and YP3025A Field Adjustments - *continued*

- 4). Refer to the Seed Rate Chart Book and select the correct fertilizer rate.
- 5). Place an orifice in each wet boom manifold opening that is being used. The acceptable manifold operating pressure range is 15 to 60 P.S.I. The preferred manifold operating pressure range is 15 to 40 P.S.I. This range of pressures insures even fertilizer distribution, with out causing fertilizer splash. Orifice size affects manifold pressure, but will not affect gallons per acre!

NOTE: Increasing or decreasing the number of rows used will affect the manifold pressure.

- 6). Set the marker length. Measure the distance from the end of the inner marker adjustment tube to the end of the outer adjustment tube.

Marker Length	
15" rows	10 ½"
20" rows	25 ½"
30" and twin	25 ½"

NOTE: If a twin row planter is used on 30" single row spacing, the right and left markers will be different lengths. Follow the procedure outlined in the Operators Manual to properly set the markers.

Seed Monitor

Your Yield-Pro planter is equipped with a Dickey-john IntelliAg Monitor. Dickey-john has provided an Operators Manual for the monitor. Great Plains has set up the IntelliAg monitor at the factory, however, we would suggest you use the "Quick Start Guide" to check that the factory set up parameters meet your needs.

FIELD ADJUSTMENTS & GENERAL OPERATING INSTRUCTIONS

- 1). Unfold the planter as outlined in the operator's manual.
- 2). Fill the seed ½ full.
- 3). If some of the openers are to be locked-up in the storage position, do so now.
NOTE: Front rows only.
- 4). Turn off the air flow to the unused meters.
(Do Not remove the meters, but Do disengage the clutch.)
- 5). Turn off the fertilizer to the unused rows.
(Remember to re-check the manifold pressure, as it will change.)
- 6). Lower the planter and 3-point hitch or hydraulic hitch to the field position.
- 7). Tie up one row of closing wheels to inspect the actual depth of the seed.
- 8). Pull ahead at field speed to inspect:
 - a). The levelness of the toolbars (side-to-side).
 - b). Levelness of the parallel opener links.
 - c). Depth of seed.
 - d). Spacing of seed.
 - e). Side to side alignment of all of the closing wheels.
 - f). Closing wheel spacing:
 - They can be adjusted in or out by moving the spacers.
 - If plugging between the closing wheels occurs, the closing wheels can also be staggered.
 - g). Closing wheel pressure
 - h). Starter fertilizer manifold P.S.I. (Must be over 15 psi and less than 60 psi.)
 - i). Seed distribution to the meters.
 - j). Measure the length of the marker and adjust if needed.
 - The angle of the marker can be increased to make the marker more aggressive.
 - Always pull the dirt in toward the planter, never push the dirt away.
 - k). Inspect monitor pre-sets to insure that the monitor is set correctly.
 - l). Inspect hydraulic drive settings to insure that the drive is adjusted correctly.

SEED AND THE USE OF INOCULANTS AND TREATMENTS

NOTE: For the first use, it is advisable to thoroughly mix approximately 5 gallons or a unit of seed with a high rate (2-3x) of Ezee Glide Plus and place in the air box prior to loading the hopper or probox. For clean seeds other than milo, sprinkle one cup of Ezee Glide Plus per 4 bushels of seed. For milo, double the application to one cup per 2 bushels.

