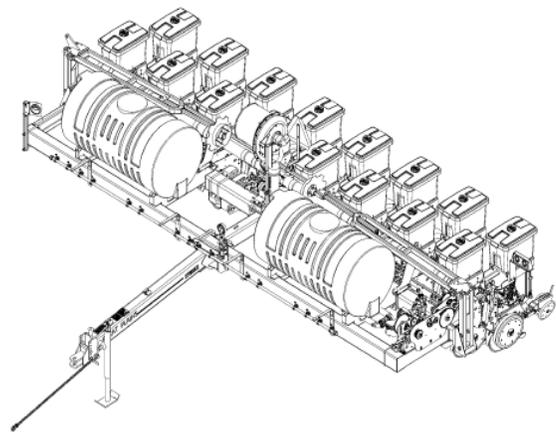


FIELD ADJUSTMENTS



YIELD-PRO PLANTER With Air Pro Meters

YP425A, YP625A, & YP825A

ADJUSTMENTS BEFORE GOING TO THE FIELD

Note: 4, 6, and 8 Row Planters use the same adjustments unless otherwise noted.

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	
8R19.5LT	110 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). Be certain that the unit is properly hitched to the tractor and that all safety lighting is properly installed and functioning correctly.
- 2). Hook up hydraulic hoses. These planters require 3 hydraulic outlets.

Hydraulic Hookup			
Outlet	System	Flow (gal. /min.)	Timer
1	Lift	12	Full lift plus 2 sec.
2	Marker	6	Full Cycle
3	Fan	Adjust for proper meter pressure	Continuous
Motor Return	Fan Motor Return	Continuous 0-15	N/A
Case Drain*	Fan Motor Case Drain*	Continuous 0-3	N/A

*(YP425A – serial #B1005M+; YP625A – serial #B1007P+; and YP825A – serial #B1008R+; will not have a case drain hose.)

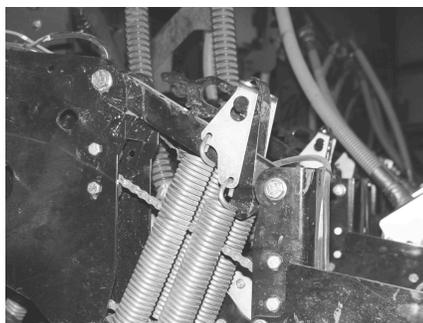
Initial Planter Leveling:

- 1) To level the planter, the distance from the bottom of the mainframe tube to the ground must be 26” with the planter lowered into planting position. This normally requires a hitch height of 14 ½” measured from the bottom of the tongue to the ground. To obtain the correct height, remove the two hitch bolts and reposition the hitch on the tongue. If the target tool bar height cannot be achieved with the frame level, an adjustment can be made by relocating the wheel axles in the arms. This will lower the planter by about 2”.

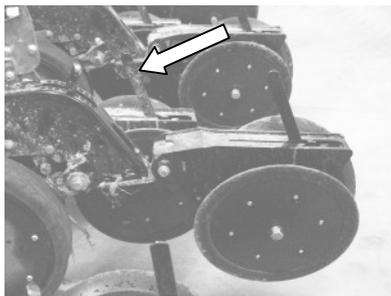
Field Adjustments – YP425A, YP625A, & YP825A continued

Initial Planter Setting:

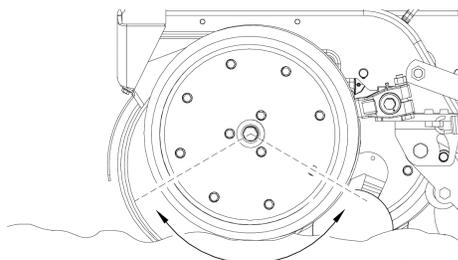
- 1). Adjust the unit mount coulters $\frac{1}{4}$ " above (shallower) than the opener discs.
- 2). Adjust the row cleaners as outlined in the operator's manual.
- 3). Adjust the opener down pressure to the correct initial setting. (A wrench is provided to make this adjustment and is stored under the 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.)



Field Adjustments – YP425A, YP625A, & YP825A continued

- 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 of 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.

Initial Metering System Setting:

- 1) Setting the seed rate: 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.
- 2) Refer to the seed rate manual to determine the correct range and transmission sprockets for the population desired

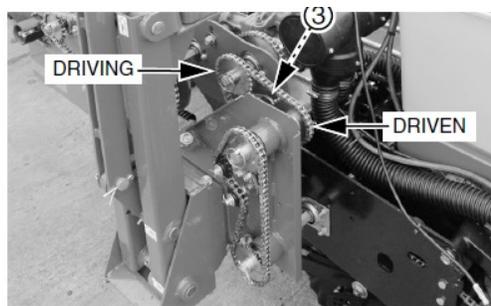


Figure 27
Range Sprockets 31030

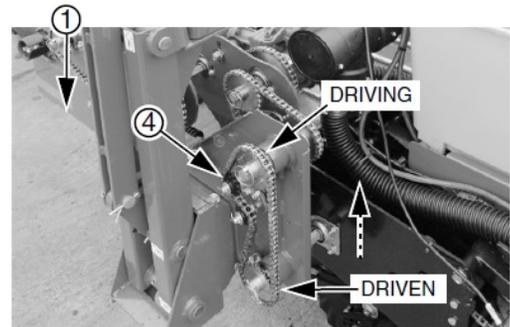


Figure 28
Transmission Sprockets 31030

- 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.

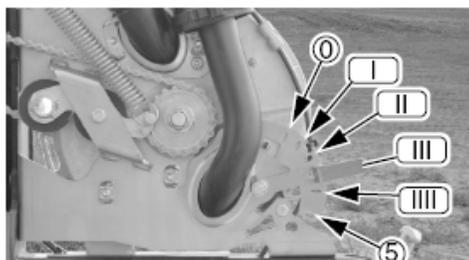


Figure 85
Seed Inlet Shutter 29607

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.

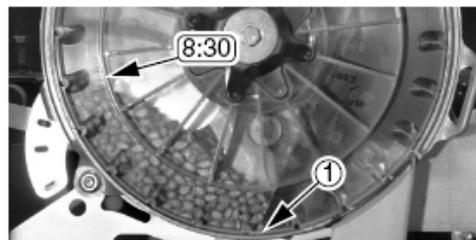


Figure 88
Corn: Seed Inlet Shutter at: 3 29603

Field Adjustments – YP425A, YP625A, & YP825A continued

- 4) Refer to the seed rate manual for recommendations of initial meter pressurization settings. This will vary dependent on seed type and size. Once in the field, activate the fan and adjust the flow setting until the desired pressure is reached on the magnahelic gauge. Next, with seed in the meters rotate the meter drive shaft one full revolution to charge the meter disks. Remove the rain covers on various meters and inspect the meter disks. If pockets of the disks are observed to be empty, increase the pressure and rotate the shaft again. If some pockets are seen to have more than one seed in them, decrease the pressure and rotate the shaft again. Once satisfied with the air pressure setting, reinstall the rain covers and commence planting.
- 5) Refer to the seed rate manual and select the correct fertilizer rate.
- 6) 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. This range of pressures insures even fertilizer distribution, without 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
- 7) If using the dry fertilizer option, consult the charts in the Seed Rate Manual to set the sprockets for the desired rate. Reconfigure the feed augers for low or high rate as needed. The Seed Rate Manual also contains a conversion chart if the density of the material being used differs greatly from the 65 pounds per cubic foot used to generate the charts.
- 8) Follow the procedure outlined in the Seed Rate Manual to calibrate the dry fertilizer to ensure accurate application.

Marker Setup

- 1) Refer to the operator's manual for initial marker extension tube settings for the row spacing being used.
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 YP planter is equipped with a DICKEY-john PM300 monitor. DICKEY-john has provided an Operators Manual for the monitor. Refer to this manual to set up the monitor as desired.

FIELD ADJUSTMENTS & GENERAL OPERATING INSTRUCTIONS

- 1) Fill the seed and fertilizer tanks $\frac{1}{2}$ full.
- 2) If some of the openers are to be locked-up in the storage position, do so now.
NOTE: Front rows only.
- 3) Turn off the air flow, close the seed inlet shutter and switch out the seed plate for a blank plate on the unused meters.
- 4) Turn off the fertilizer to the unused rows.
(Remember to re-check the manifold pressure, as it will change.)
- 5) Lower the planter to the field position
- 6) Tie up one row of closing wheels to inspect the actual drop of seed.

Field Adjustments – YP425A, YP625A, & YP825A continued

- 7) Pull ahead at field speed to inspect:
 - a) The levelness of the toolbar. (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 psi (must be over 15 psi and less then 60psi)
 - i) Seed pool in the meters
 - j) Measure the length of the marker and adjust if needed.
 - The angle of the marker can be increased to make a clearer mark
 - Always pull the dirt towards the planter, never push it away.
 - k) Inspect monitor presets to ensure that it is set up correctly.
 - i) Inspect drive settings.

SEED AND THE USE OF INOCULANTS AND TREATMENTS

Ezee Glide Plus Lubricant

To maximize performance of Great Plains metering systems, it is imperative to use only “Ezee Glide Plus” lubricant. “Ezee Glide Plus” Talc + Graphite lubricant is mandatory for all seeds, especially treated or inoculated seed. **Thorough mixing of seed and added lubricant is required.**

Recommended Usage:

For Clean seeds other than milo, cotton, and sunflowers, sprinkle $\frac{1}{4}$ cup of Ezee Glide Plus per bushel or unit of seed

For milo, cotton, and sunflowers, double the application to $\frac{1}{2}$ cup (or more) per bushel or unit of seed.

Adjust this rate as necessary so all seeds become coated while avoiding an accumulation of lubricant in the bottom of the hopper.

For seed with excessive treatment, or for humid planting environments, increase the rate as needed for smooth meter operation.

Air-Pro® Meters (all seeds)
Ezee Glide Plus Talc + Graphite Mix
821-069C bucket, 5 gallon (19 liter)

