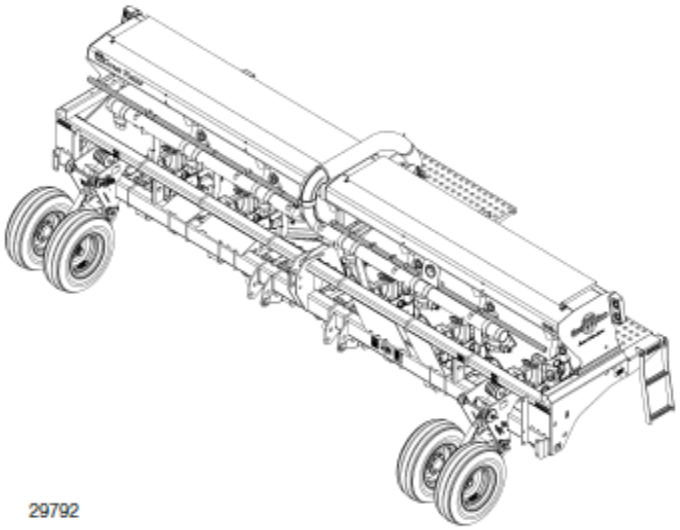
FIELD ADJUSTMENTS

PRECISION SEEDING SYSTEM

THREE POINT 2025A & 2525A

With Air-Pro meters



DRILL MAINTENANCE

Proper servicing and adjustment is the key to the long life of any farm implement. With careful and systematic inspection of your grain drill, you can avoid costly downtime and repair.

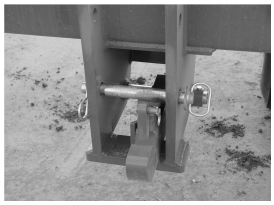
1. After using your drill for several hours, check all bolts to be sure they are tight. Refer to the torque value chart in your operator's manual.
2. Lubricate all chains with chain lube, and grease the gauge wheel arm pivot castings every 6 to 8 hours.
3. Disk scrapers should be properly adjusted.
   Check for the proper air pressure in the implement tires. 32 P.S.I. for the 9.5L 15" 6 ply tire and 36 P.S.I. for the 11L 15" 8 ply tire.
4. Check all chain idlers for proper adjustment. Check that each idler is taking up excess chain slack. DO NOT OVER TIGHTEN CHAINS. Adjust until the pull side of chain has no more than a ¼ inch of movement from the centerline of the pull.
5. The seed meter drive has a spring loaded idler, which requires no adjustment.

ADJUSTMENTS BEFORE GOING TO THE FIELD

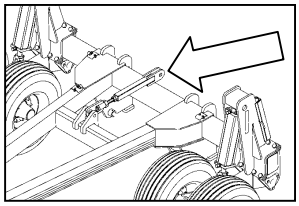
Hitching precision seeder to the tractor.

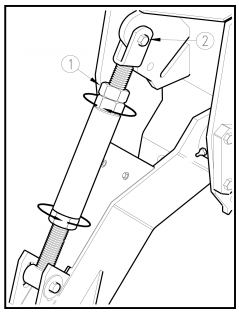
1. Attach the tractors lower three point arms to the drill.
   Pin the top link arm to drill. For category II, III, and III-N tractors, install the top link pin in lower hole. For category IV-N tractors install pin in upper hole.
2. Raise drill and check for any interference on the tractor.
3. With drill in planting position check the top edge of drill box. It should be parallel with the ground, if not adjust the top three point link on the tractor.

Hitching the precision seeder to a Great Plains Implement hitch (SSH)



1. With the hitch lock in the forward position, back up until quick hitch is under the lower hitch pins of the three point drill. Raise the hitch, once the lower pins are securely attached, slide the latch plate back and install the retainer pin.
2. Attach the top link to the drill
3. With the drill in planting position check the top edge of drill box. It should be parallel with the ground. If not adjust the tip ling until box is level.





Gauge Wheel Adjustment

1. The gauge wheel drives have a turnbuckle to adjust frame height. The top clevis must be in the top hole of the gauge-wheel mount. Initially set the length of the turnbuckle to 17 ½ inches between the center of the mounting holes.

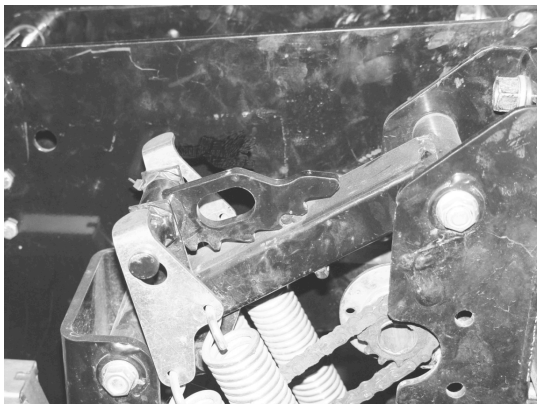
Attach Hydraulic hoses to tractor. The 2525A requires one remote for the fan operation and one remote if the marker option is added.

Hydraulic Hose Hookup			
Outlet	System	Flow (gal./min.)	Timer
1	Fan	Adjust for meter pressure	constant
2	Marker	6	Full Cycle
Motor Return	Fan Motor Return	Continuous 0-15	NA
Case Drain	Fan Motor Case Drain	Continuous 0-3	NA

Opener Adjustments

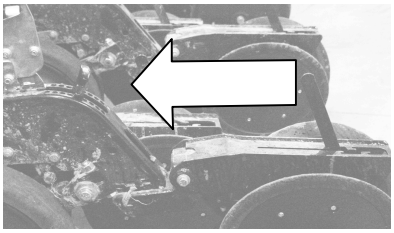
1. Two heavy duty down pressure springs are standard equipment on each opener. Each opener down pressure spring has a six-position cam to adjust down pressure. This will allow more pressure to the rows running in tire tracks. The adjustment tool for the cam is mounted under the walk board.

NOTE: If the spring cams are adjusted to the maximum setting on all the openers, poor penetration may result because it will raise the drill. Start with all the opener springs in minimum setting.

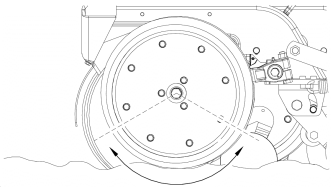


Minimum Maximum

2. The "25" series opener seed depth is controlled by the side depth gauge-wheels. Moving the "T" handle towards the front of the drill decreases the depth of the opener. A good starting point is 4 holes from the rear.

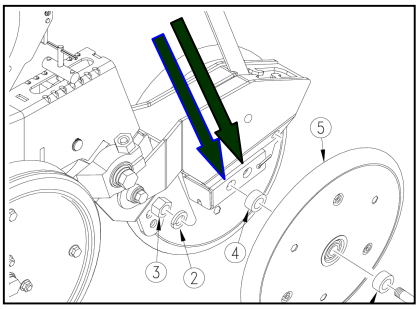


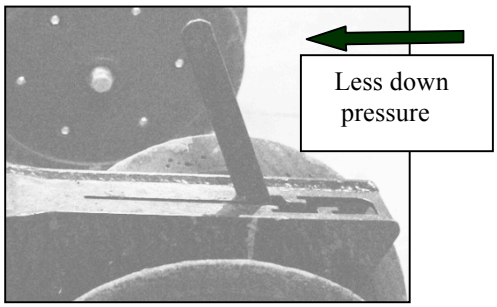
3. Raise the side depth arm. If adjusted correctly, it should touch the disc blade between 5 and 7 o'clock position, but drop fully when released. (Proper adjustment instructions are outlined in the operator's manual.)



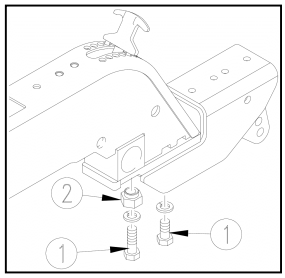
4. The "25" series opener also is equipped with your choice of double closing wheels. The closing wheels are staggered from the factory for optimum residue flow. The tension of the closing wheels is changed with the closing wheel adjustment handle. Start by placing all closing wheel handles in the front slot (minimum setting).

   NOTE: Increasing the tension on the closing wheels to the maximum setting may raise the opener causing poor seed placement.



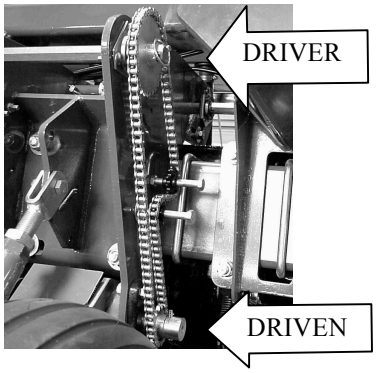


5. Adjusting the cam bolts on the bottom of the press wheel pivot aligns the closing wheels. Loosen both cap screws (1) and use the cam nut (2) to align the closing wheels.



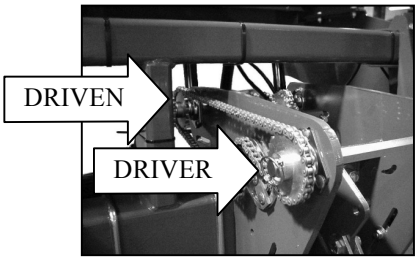
Adjusting Seeding Rate

1. The seed rate is controlled by two sets of sprockets. The drive speed range sprockets and the transmission sprockets.
   a) Start by selecting the correct drive speed range as directed by the seed rate chart. Install the DRIVER and DRIVEN sprockets in the correct locations on both gauge wheels.



Range

b) The transmission sets the seed rate within the chosen range sprocket setting. Refer to the seed rate chart and find the desired seed rate for type of seed. Adjust the transmission to the desired seed rate. Install the DRIVER and DRIVEN sprockets in the correct locations on both gauge wheels.



NOTE: Make sure the correct sprockets have been installed in the DRIVER and DRIVEN locations. Set both gauge wheel range and transmission sprockets the same.

Initial Metering System Setting:

1. Select the proper Seed Disks for the 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. 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.

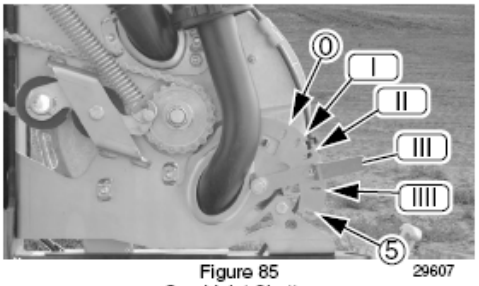


Figure 85 29607
Seed Inlet Shutter

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.

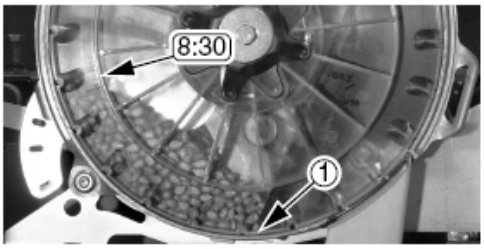


Figure 88 29603
Corn: Seed Inlet Shutter at: 3

3. 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.

METER MAINTENANCE

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 ¼ cup of Ezee Glide Plus per bushel or unit of seed

For milo, cotton, and sunflowers, double the application to ½ 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)