



Quick Field Guide

Seeding with SMALL Seed Box

Back Seed Box

Alfalfa, clovers, small grasses

Great Plains 1006NT

End Wheel No-Till Compact Drill

TRANSPORTING

- Transport width is 12 feet 7 inches.
- Transport requires a tractor or truck equipped with a hitch with adequate towing capacity.
- Completely raise drill and secure cylinder blocks.
- Secure safety chain and raise hitch stand.
- Disengage the lock out hubs on both wheels.
 - Pull the pin out of the slot to disengage.
- Place hydraulic hose ends in storage bracket on frame during transport and secure slack hose.

SET UP

- Small seed box capacity = 2.4 bushels.
- Use the *Small Seeds Seed Rate Charts* which start on Page 18 of the Rate Chart book.
 - On the chart, find desired seeding rate (use 7.5 inch row spacing) in pounds of seed per acre. Follow that column up; note the corresponding Small Seed Cup Lever Setting.
- Adjust the small seed box seeding rate by setting the Small Seed Cup Lever.
 - Rate handle is on the back side of the small seed box, above the walk board.
 - Loosen the wing nut under the handle, set indicator just past the desired value from the chart, then tighten wing nut.
- This YouTube video may be helpful (video link can be found on our web page):
 - *Great Plains No-till Drill Instructions* posted by the Franklin County Soil and Water Conservation District

CALIBRATION

- Always calibrate the drill before seeding.
- Block wheels before detaching drill from truck or tractor.
- Connect the hydraulic hoses to your tractor.
- Remove the cylinder blocks and store on carrier arms.
- Lower the drill to the ground to engage the clutch.
- Attach the calibration crank to the coupler on the gauge wheel jack shaft (driver's side).
- Disengage lock out hub on driver's side when calibrating.
 - Pull the pin out of the slot to disengage.
- Place seed over three end seed cups. Place containers under the seed tubes to capture seed.

- Turn the calibration crank until seed starts coming out. Empty the seed from the containers, then turn crank 41 times.
 - The book states to turn the crank 411 times. Divide by 10 now so you turn the crank less. Multiply pounds per acre by 10 to build it back into the equation:

$$\frac{\text{MeasuredSeed} - \text{EmptyContainer}}{3} = \text{PoundsPerSeedCup}$$

$$\text{PoundsPerSeedCup} \times \text{NumberOfOpeners} = \text{PoundsPerAcre} \quad \times 10 = \text{Pounds seed per acre}$$

(15 openers)

- This YouTube video may be helpful:
 - *How to Calibrate the Great Plains Main Seed Box (Model 1006NT)* posted by MillbournSeeds

SEEDING

- Engage the lock out hub on the driver's side before planting. This will also activate the acre meter.
 - Drop the pin in the slot to engage.
- Adjust the depth of the wavy no-till counter by turning the control knob.
 - One full rotation of the knob adjusts the coulters ¼ inch.
 - Clockwise = deeper.
 - Counterclockwise = shallower.
- Set the press wheels. This adjusts the depth of the disc openers. Note that the seed from the small box is dispersed from the small seed tubes, on the ground *behind* the disc openers. This also adjusts how the rubber press wheels close the seed trench
 - Each "rock" is a quarter of an inch.
 - Forward is shallower, backward is deeper.
 - Make sure to set all 15 openers the same.
- Raise the drill before turning or backing up.
- Get out often to check seed depth, placement, and rate.
- Grease zerks on clutches & grease banks after 8 hours of operation.
- Grease gauge wheel arms & small seed shaft bearings every 15 hours.

AFTER SEEDING IS COMPLETE

- Raise the drill and secure cylinder blocks.
- Disengage lock out hub on the driver's side wheel.
 - Pull the pin out of the slot to disengage.
- Block wheels before detaching drill from tractor.
- Thoroughly clean out the seed boxes with a vacuum and remove mud from row units.