



## Main Seed Box Planting

Calibrating the seeding rate requires four steps:

1. selecting one of four drive types,
2. setting the seed-rate handle,
3. positioning the feed-cup door, and
4. checking the seed rate.

Refer to the seed rate charts beginning on page 4. These charts list the proper drive type and seed-rate-handle settings for various seeds and seeding rates.

The seed rate charts are based on cleaned, untreated seed of average size and test weight. The rates are based on 9.00 x 24 rib implement tires. Many factors will affect seeding rates including foreign material, seed treatment, seed size, field conditions, tire pressure and test weight. Minor adjustments likely will be needed. Set and check the seeding rate using the procedures on page 2, then adjust the rate as necessary.

### Select Drive Type

*Refer to Figure 1*

The gearbox is designed to give you a variety of drive speeds for different types of seeds and rates. It is a linear shift pattern design with constant mesh gearing and totally sealed to keep the dirt out. No lubrication is required unless service is needed.

The gearbox brass indicator plate is positioned so the side with "1" is closest to the center of the drill.

To set the gearbox move the selector handle ① until the desired drive type appears in the window ② on the handle

### Set Seed-Rate Handle

*Refer to Figure 2*

The seed rate handle controls the percent engagement of the seed sprocket in each seed cup.

1. Loosen wing nut ① under handle.
2. Set indicator ② to just past value from seed rate chart.
3. Tighten wing nut.

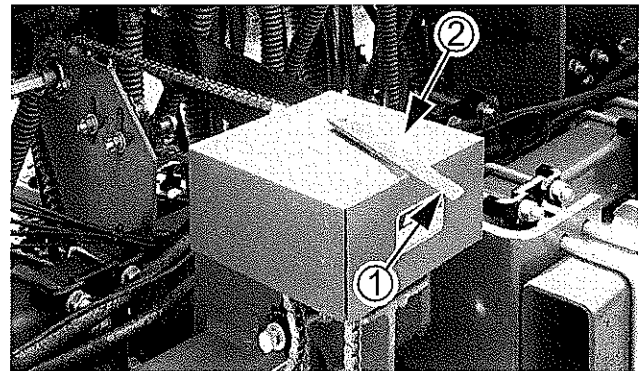


Figure 1  
Gearbox Handle Adjustment

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**Table 1: Gear Box Ratios**

Setting 2 is 2.06 Times Faster Than 1

Setting 3 is 3.08 Times Faster Than 1

Setting 4 is 5.03 Times Faster Than 1

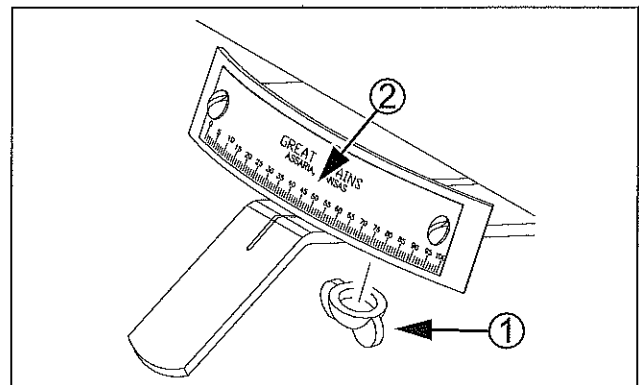


Figure 2  
Seed Rate Handle

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## Position Seed Cup Doors

Refer to Figure 3, which depicts the seed cup door handle in position ③.

At each seed box seed tube, adjust the seed cup door handle ④ for the seed size.

The handle has three normal operating position detents:

- ① (top detent) is for the smallest seeds. Use it for wheat and similar small seeds.
- ② (middle detent) is for larger seeds. Use it for soybeans and similar larger seeds.
- ③ (bottom detent) is for oversize or fragile seeds. If you experience excessive cracking with setting ②, use setting ③.

Note: Handle position ⑤ is used for cleanout, not planting. If set to ⑤ with seed loaded, it may be difficult to reset it to a normal operating position.

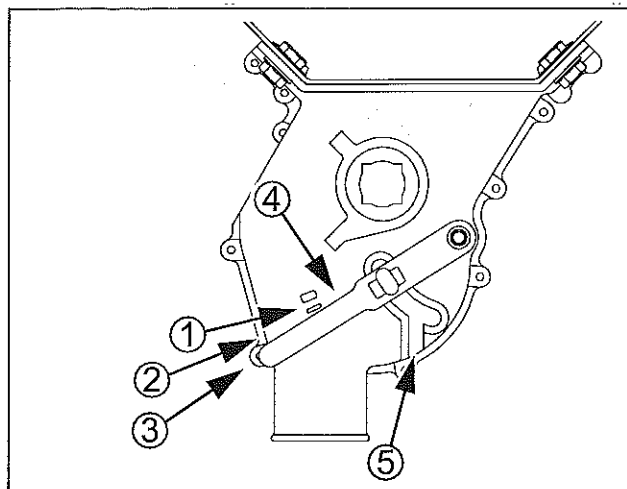


Figure 3  
Seed Cup Door Handle

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## Checking Seed Rate

Note: For drills built **after October 1, 2005**, use the gauge wheel tire or supplied calibration crank to calibrate. For drills built **before October 1, 2005**, use the gauge wheel to calibrate or order the calibration crank kit available through your Great Plains Dealer.

1. To calibrate, use either the left hand gauge wheel or the supplied calibration crank. If using the calibration crank, attach crank to coupler on gauge wheel jackshaft with retaining pin and disengage lockout on drive wheel.
2. Rotate left hand gauge wheel or calibration crank to see that feed cups and drive are working properly and are free from foreign matter.
3. To adjust seeding rate, decide which drive type (gearbox) setting you need from the seeding charts beginning on page 4. Set the gearbox. Rotate drive tire or calibration crank a few turns to confirm gearbox has engaged.
4. Record weight of an empty container large enough to hold seed metered for one acre.
5. Place several pounds of seed over three seed cups on an outside end of drill box. Pull seed tubes off of these three openers.
6. Turn drive gauge wheel or calibration crank several times to fill seed cups with seed. Turn wheel or crank until seed falls to the ground from each cup.

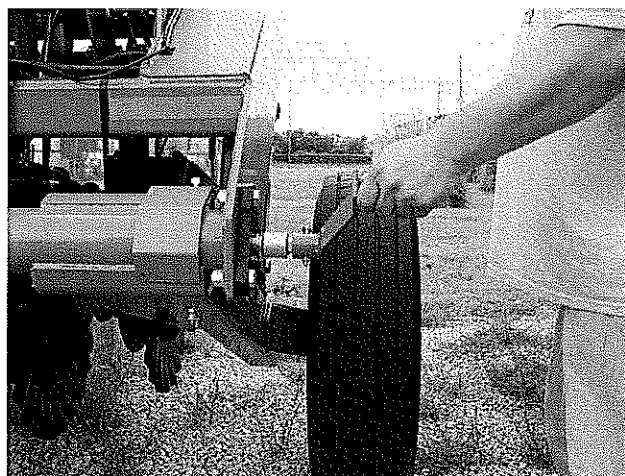


Figure 4  
Calibration Crank

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7. Rotate drive gauge wheel or calibration crank  
595 rotations for the 706 and  
411 rotations for the 1006.  
This is equal to one acre.

Note: You can also rotate the gauge wheel jackshaft by means of a wrench or socket. If rotating gauge wheel jackshaft, disengage the lockout on the drive wheel and use same number of rotations as for rotating drive wheel.

8. Check that the three seed cups have plenty of seed coming into them.
9. Weigh metered seed. Subtract initial weight of container. Divide by three. Multiply by the number of openers on your drill to determine total pounds seeded per acre. If this figure is different than desired, set your seed rate adjustment handle accordingly.

Note: You may want to repeat the calibration procedure if your results vary greatly from seed rate chart.

10. When drilling, check seeding rate by noting acres drilled, amount of seed added to drill and seed level in drill box. If you are seeding more or less than desired, adjust seeding rate slightly to compensate for field conditions.

Drill Model	Revolutions for One	
	Acre	Hectare
706NT	595	1470
1006NT	411	1016

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

$$\text{PoundsPerSeedCup} \times \text{NumberOfOpeners} = \text{PoundsPerAcre}$$