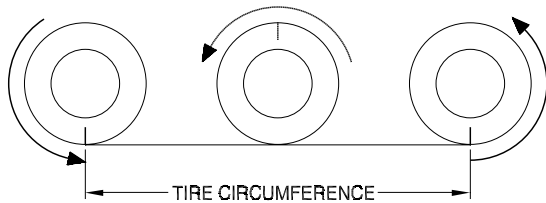


## Rate Calibration

- Ensure tires are at correct pressure.
- Determine Tire Circumference (Tc) as follows:
  - Check under normal field conditions with tanks half full.
  - Mark tire and starting point.
  - Drive air cart 10 revolutions of tire in a straight line.
  - Mark ending point.
  - Measure distance from starting point to ending point and divide by 10 to get the rolling circumference of the tire (Tc).



- Calculate the number of rotations (R) of the calibration crank for 1/10 Acre. Record value below for future reference.  
 Note: For reference nominal (R) values are listed in Section 12 of the manual.
- Calculate required tire sprocket size (Ts) and to ensure correct sprockets are installed on the Air Cart. Record value below for future reference.

**Note: Due to ratios the value may not be a whole number and should be rounded to nearest value.**

- Calculate the monitor PP400 setting. Record value below for future reference. Change monitor to new PP400 value as outlined under "Changing Monitor Settings" under Monitor Section.

### Example:

For a 8370 with 800/65 R32 Tires and a 51ft wide seeding tool (W) with:

The measured Tire Circumference (Tc) was 211.6 inches.

For 32" Rim

$$\begin{aligned} \text{Crank Rotations (R)} &= (82328.4/W)/Tc \\ &= (82328.4/51)/211.6 \\ &= 7.63 \end{aligned}$$

$$\begin{aligned} \text{Monitor PP400} &= 80640/Tc \\ &= 80640/211.6 \\ &= 381 \end{aligned}$$

Tire Specifications						
Tire	Style	Rating	Pressure			
			8240 8300 BH 8336 BH	8300 BT 8336 BT 8370 8425	BH 8435 8630 8650	BT 8435 8630 8650
21.5 x 16.1	Soft Trac	10 ply	28 psi	-	-	-
21.5 x 16.1	Lug	12 ply	24 psi	-	-	-
560/65 D24	Soft Trac	LI 140	19 psi	24 psi	-	-
500/70 R24	Lug	LI 157	20 psi	25 psi	-	-
23.1 x 26	AWT	12 ply	24 psi	-	-	-
23.1 x 26	Rice	10 ply	28 psi	-	-	-
28LR26	Lug	165 A8	-	-	18 psi	-
480/70R30 Quad Steer	Lug	LI 152	26 psi	26 psi	-	-
30.5 x 32	AWT	12 ply	20 psi	24 psi	-	-
800/65 R32	Lug	LI 172	15 psi	20 psi	-	-
800/65 R32 Dual Wheels	Lug	LI 172	-	-	-	20 psi
900/60 R32	Lug	176 A8	17 psi	17 psi	26 psi	-
520/85 R38 Dual Wheels	Lug	155 A8	-	-	20 psi	-

\*BH - Tow Behind only \*BT - Tow Between only

## Calibration Formulas - Imperial

### Rotations of Crank for 1/10 Acre:

$$\text{For 26" Rim} = (62726.4/W)/Tc$$

$$\text{For 32" Rim} = (82328.4/W)/Tc$$

$$\text{For 38" Rim} = (82328.4/W)/Tc \quad R = \underline{\hspace{2cm}}$$

### Tire Sprocket Size:

$$\text{For 26" Rim} = 4360/Tc$$

$$\text{For 32" Rim} = 5992/Tc$$

$$\text{For 38" Rim} = 5992/Tc \quad Ts = \underline{\hspace{2cm}}$$

### Monitor PP400 Setting:

$$\text{For 26" Rim} = 56244/Tc$$

$$\text{For 32" Rim} = 80640/Tc$$

$$\text{For 38" Rim} = 80640/Tc \quad PP400 = \underline{\hspace{2cm}}$$

Tc = Tire Circumference measured in inches

W = Working Width measured in feet

See Metric Section 11 for metric formulas.