KIBBLE EQUIPMENT

Your Farm. Your Future. Our Focus.

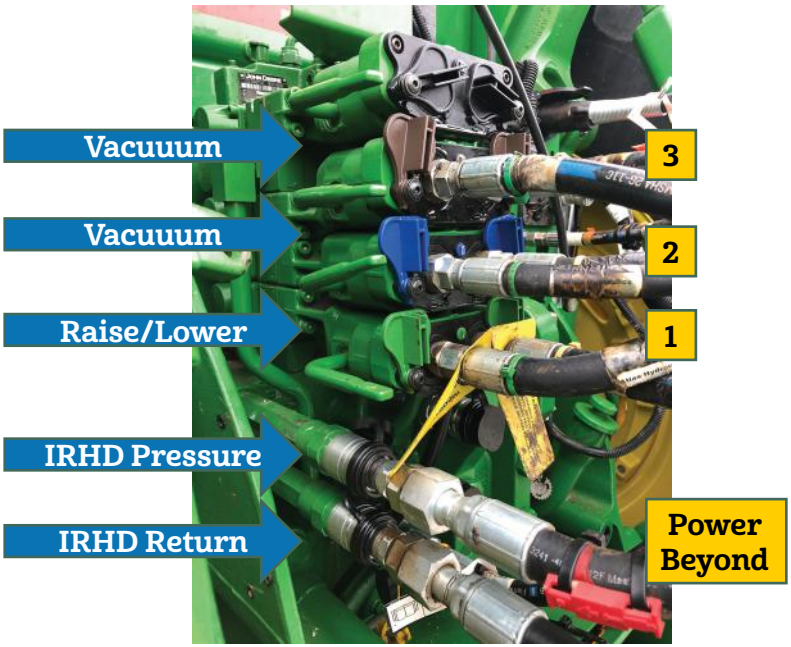
READY TO PLANT GUIDE

Gen4 Monitors
Seedstar 4

JOHN DEERE

Contents

Hydraulic Hook Up

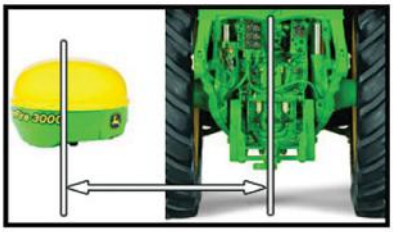


Hydraulic Hook Up					
Hose ID	**SCV**	**Pressure**	**Return**	**Flow**	**Detent**
Frame/CCS	I	Extend	Retract	10 max	Constant 'C'
Vacuum	II	Retract	Extend	4-7	Constant 'C'
Vacuum	III	Retract	Extend	4-7	Constant 'C'
IRHD Pressure	P	Pressure			
IRHD Return	R		Return		

- Case drain should be connected prior to any other hose
- IRHD can be plumbed to power beyond pressure and return if no SCV available
- Vacuum return hoses must be connected to tractor EXTEND port
- Avoid Pressure spikes by putting SCV's into FLOAT position
- Not pictured: Markers, if equipped use II SCV and move up vacuum hoses

Machine Offsets

1) Lateral Offset - Center of GPS Receiver to Center line of Machine



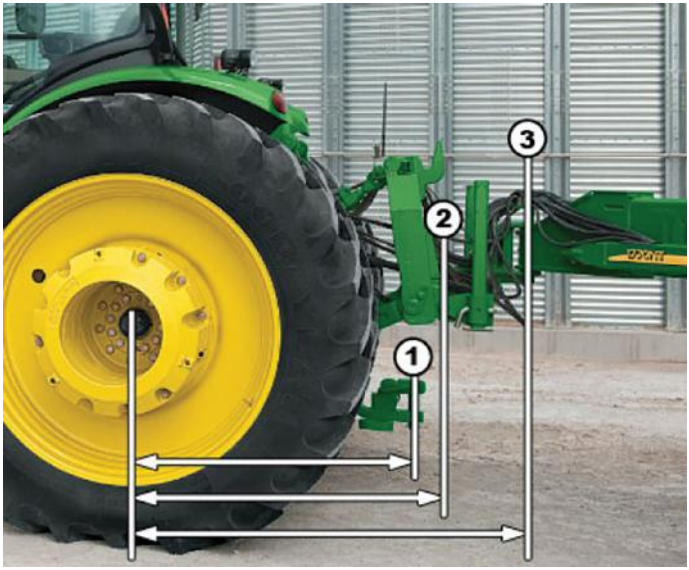
2) In line Offset - Center of GPS Receiver to Center of Non-Steering Axle

3) GPS Height - center of GPS receiver to ground

Connection Offsets

Connection Offset: Center of Non-steering axle to Center line of machine connection point

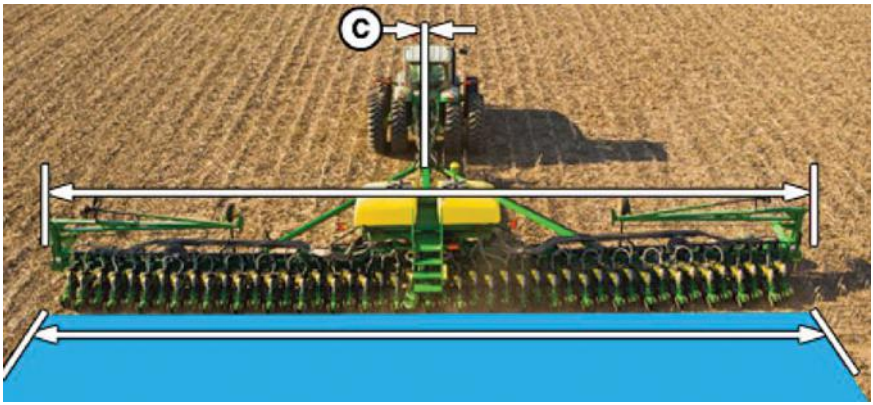
1) Rear Pivot Drawbar
2) Rear Rigid 3-point
3) Rear Pivot 2-point



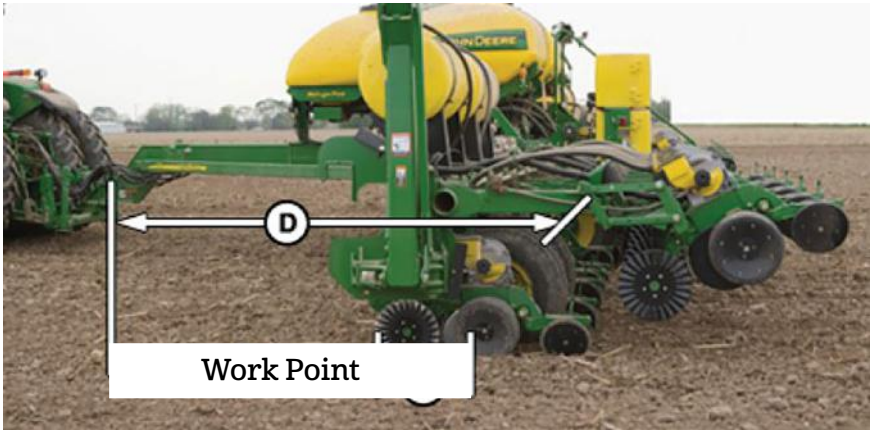
Non steering axle = front on 4 wheel drive

Planter Offsets

C) Lateral offset from center of machine to center of implement width.



D) Center of Rotation - Connection Point to center of fixed axles



Work Point - Distance from connection point to location where seed is dropped

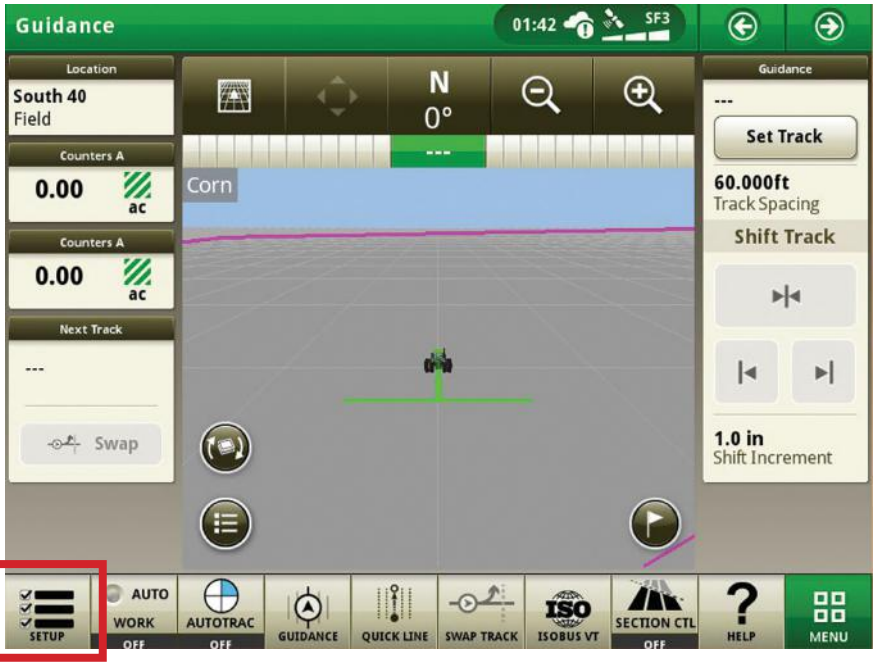
Gen4 Importing Data

Data Import using a USB Drive

Insert USB with setup data. Import screen will appear. Select the Next button. Choose setup files and Accept to import.

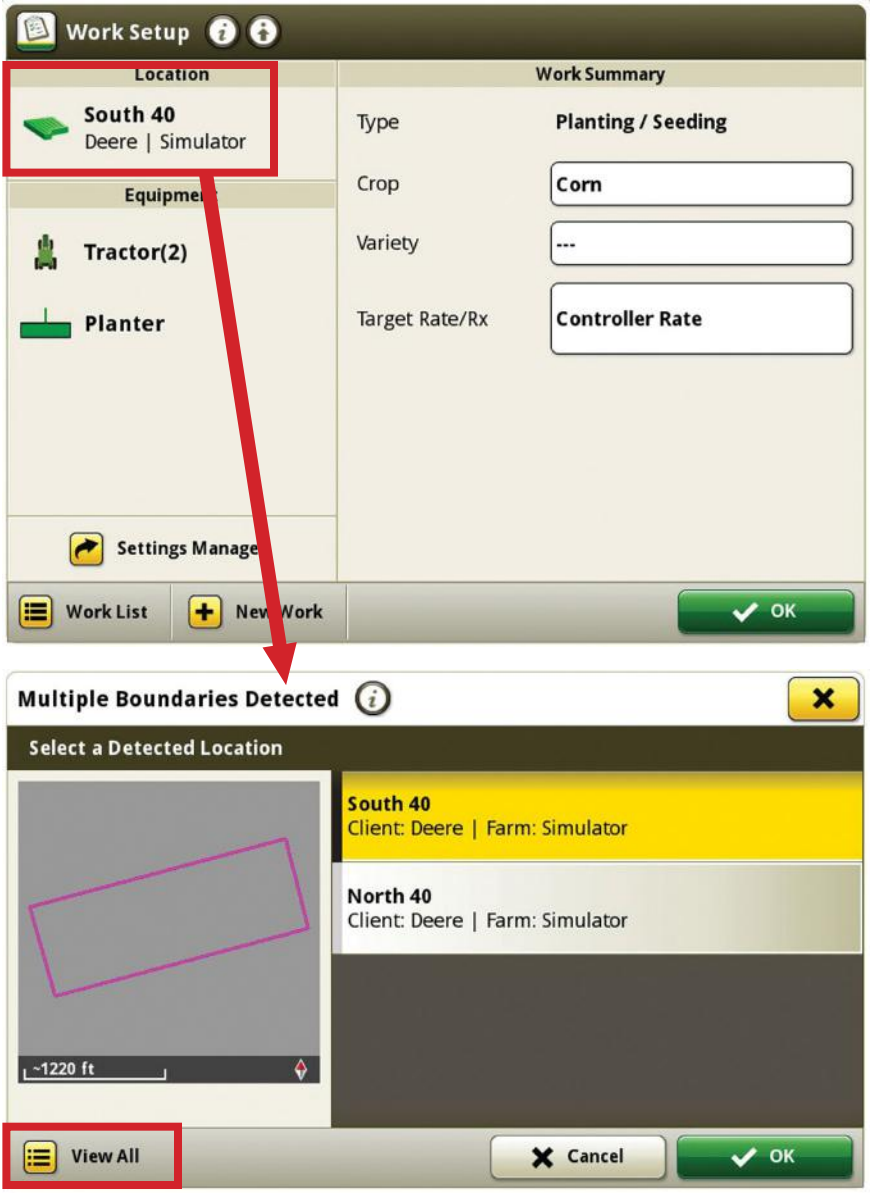
When files are sent wirelessly from MyJD. Choose Import from Recieved Files.

1. Select the Setup button.



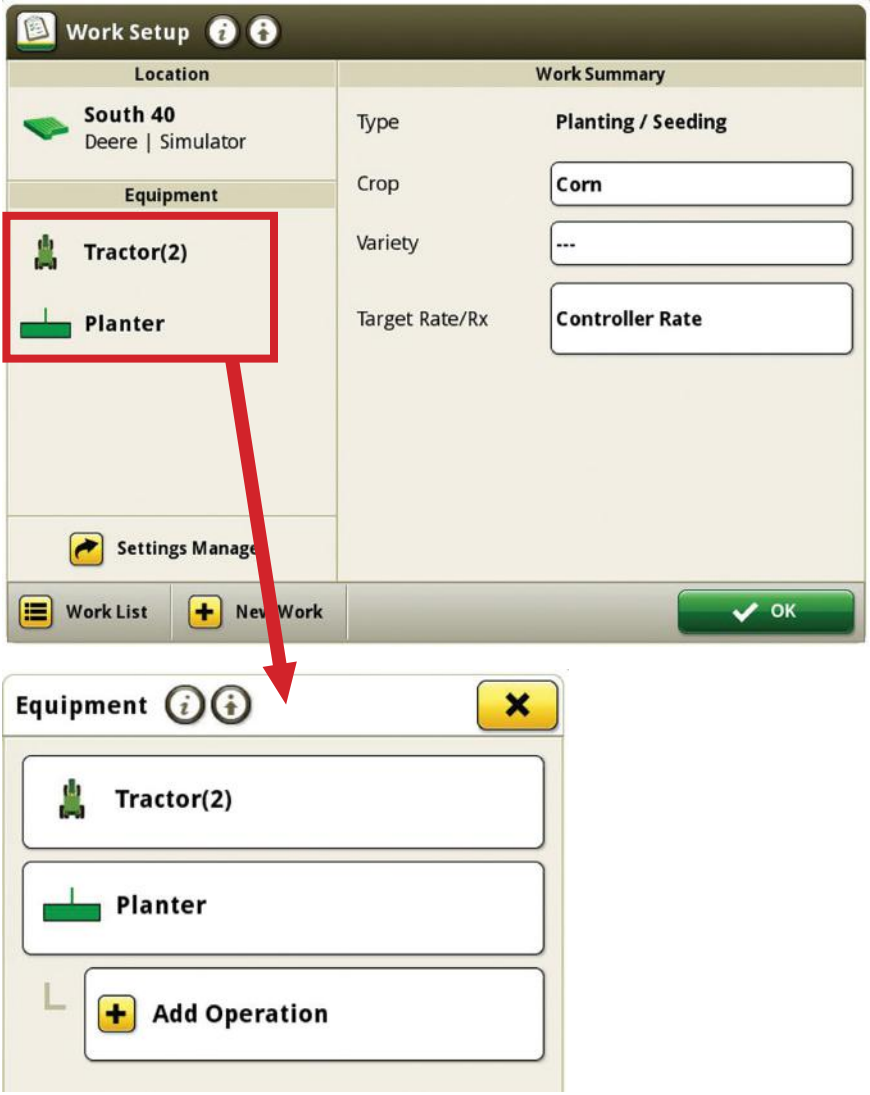
Gen4 Work Setup

2. Select the Location button and select your Client, Farm, and Field. Press View All to see entire list.



Gen4 Work Setup, continued

3. Select the Equipment button and select your Machine and Implement.

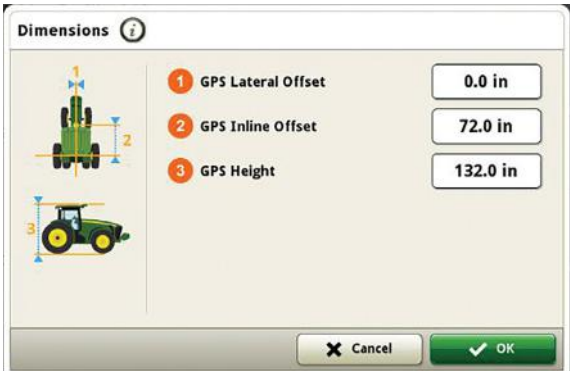


4. Select Tractor and enter offsets. Next select Planter and insert offsets.

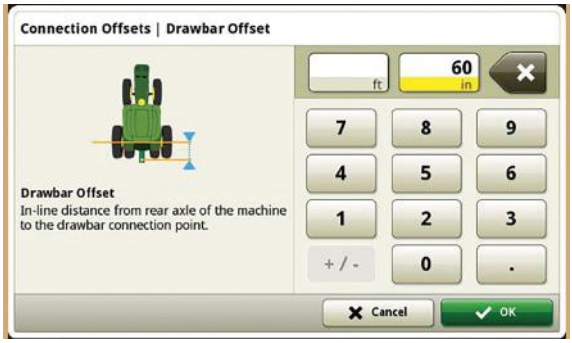
Gen4 Machine Profile

5. Under Machine Profile select GPS offsets.

6. Enter receiver measurements.



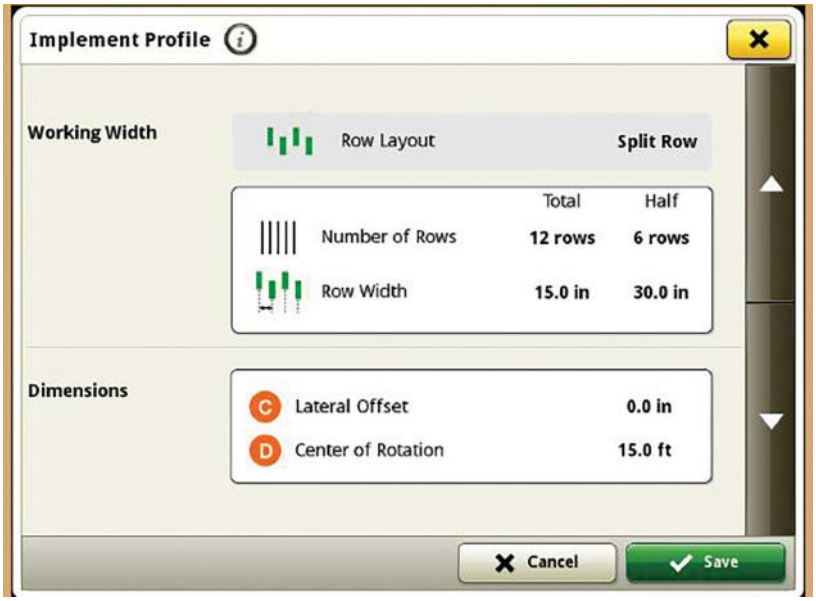
7. Select Connection Offset to enter measurement from axle to connection point.



Gen4 Implement Profile

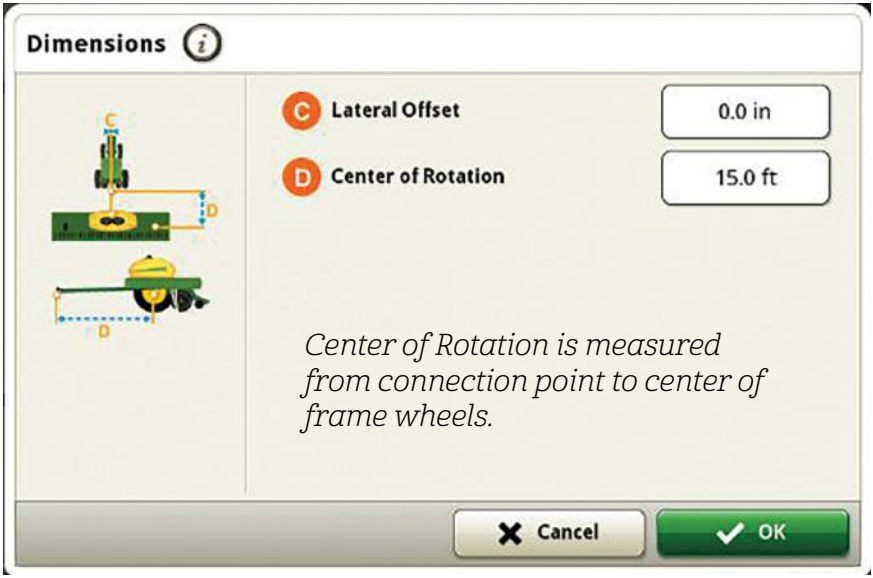
8. Open Implement Profile. Choose correct Connection Type.

9. Verify Planter Working Width and Dimensions.

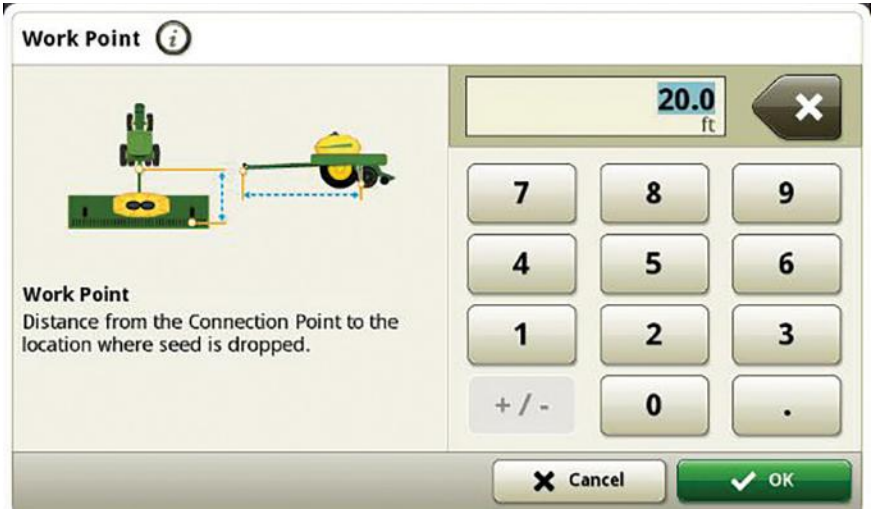


Gen4 Implement Profile, continued

10. Enter Lateral Offset and Center of Rotation.



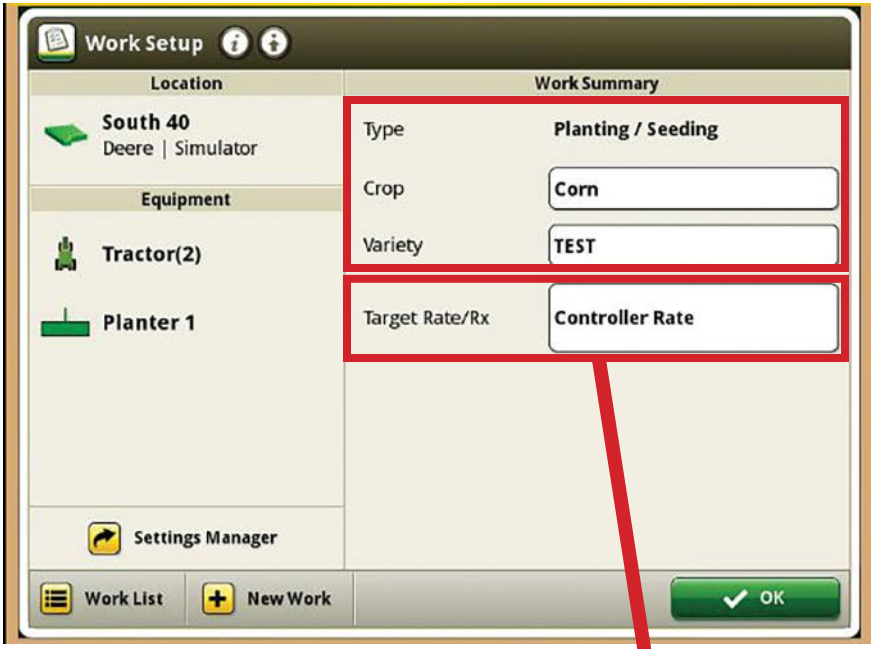
11. Measure and enter Work Point (Seed Tubes) value. After entering all the info, click Save before returning to the Work Setup page.



Gen4 Work Summary

12. Select the your Crop Type, Variety, and Target Rate. If using a prescription select RX instead of controller rate and import the RX.

    Select OK to save.



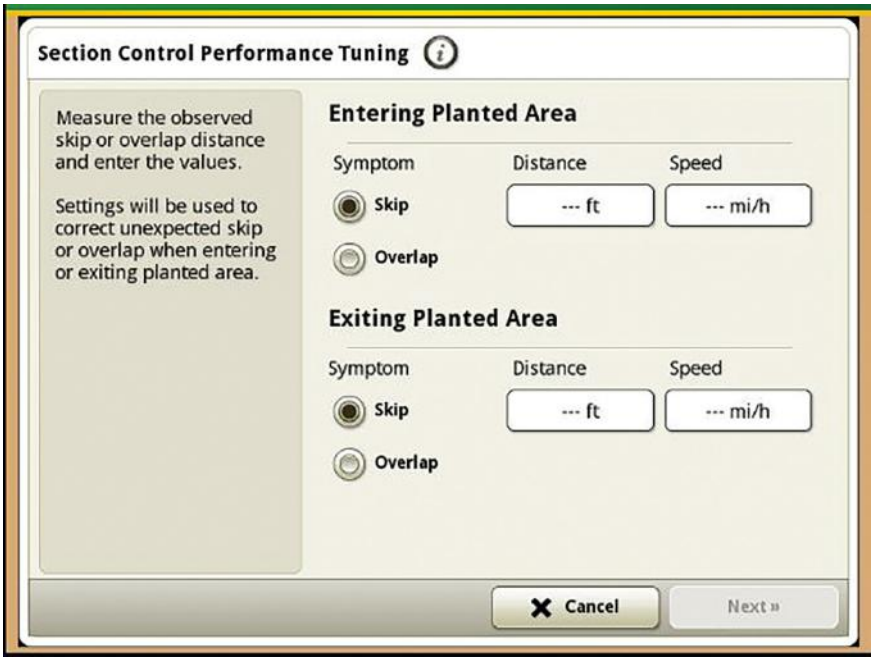
Gen4 Section Control

Select Menu -> Applications -> Section Control. Turn Master On. Select Boundaries if using.

Select Overlap Settings to edit values to the desired percent overlap and Save.

Gen4 Section Control, continued

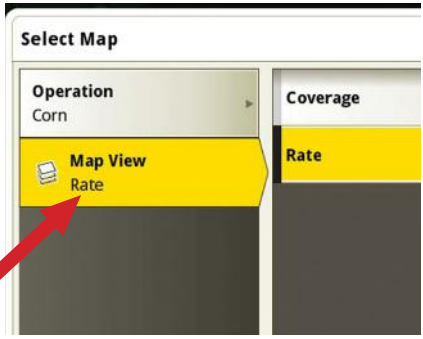
Use Performance Tuning while planting to fine tune section control skips/overlaps by measuring distance and noting speed.



Go to Menu -> Applications -> Layout Manager to create a section control master switch on the Shortcut Bar.

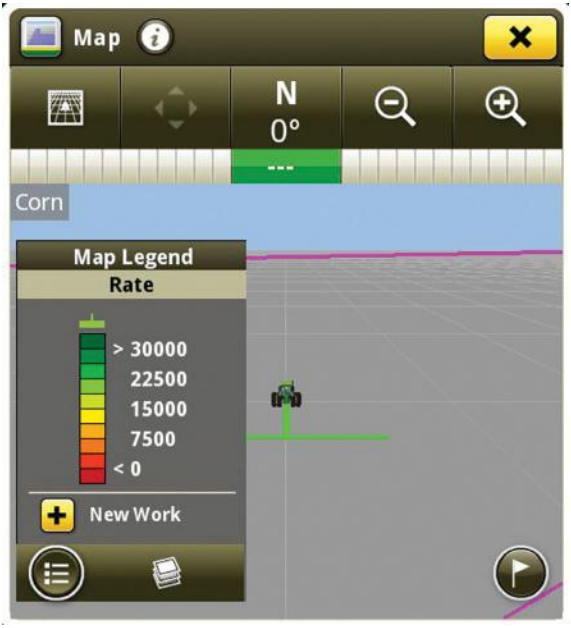
Gen4 Map Setup

If you'd like to view a rate map instead of a coverage map click Menu then Applications, Next, select Mapping and choose the Map Legend icon then select the Map View icon.



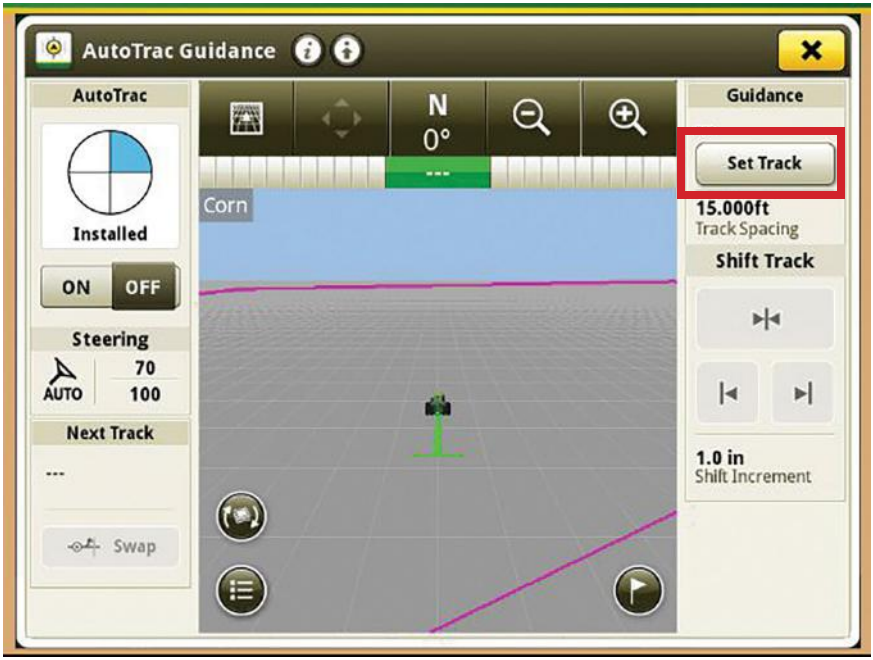
Select Rate and OK to save settings.

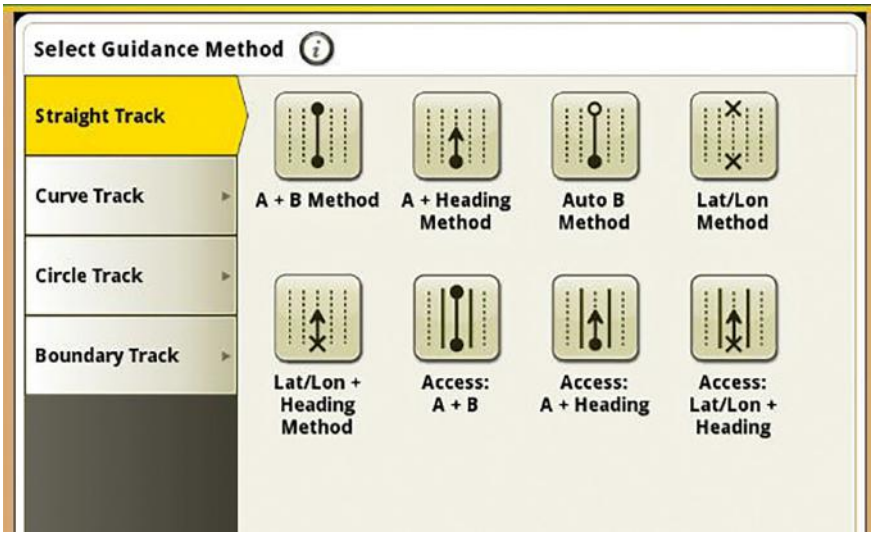
To edit the Map Legend click on the colored Legend and enter desired "Greater Than" and "Less Than" values. Click OK to save.



Gen4 Guidance Setup

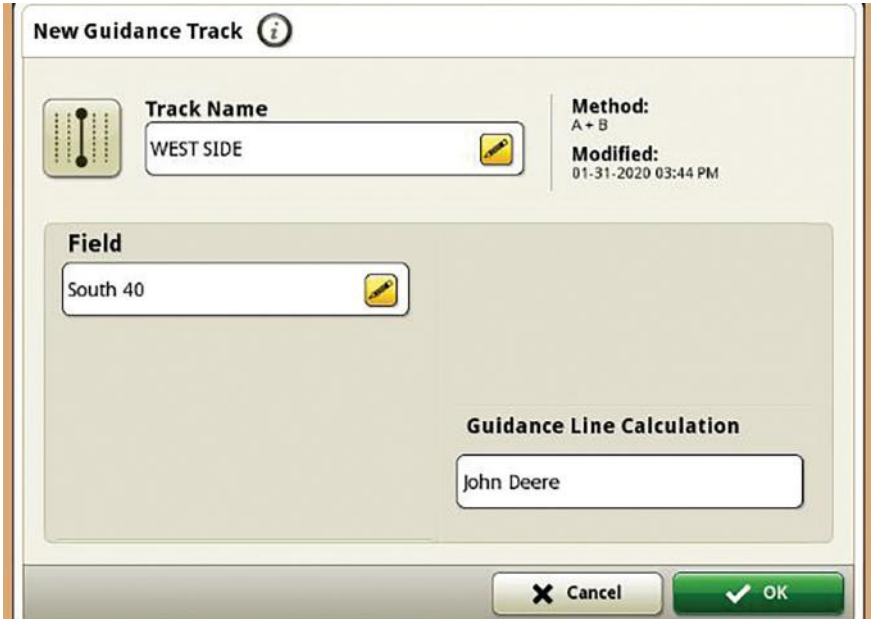
Select the Guidance shortcut key on the shortcut bar. Click Set Track and choose AB line from the guidance track list or select New track. Next choose type of track and creation method.



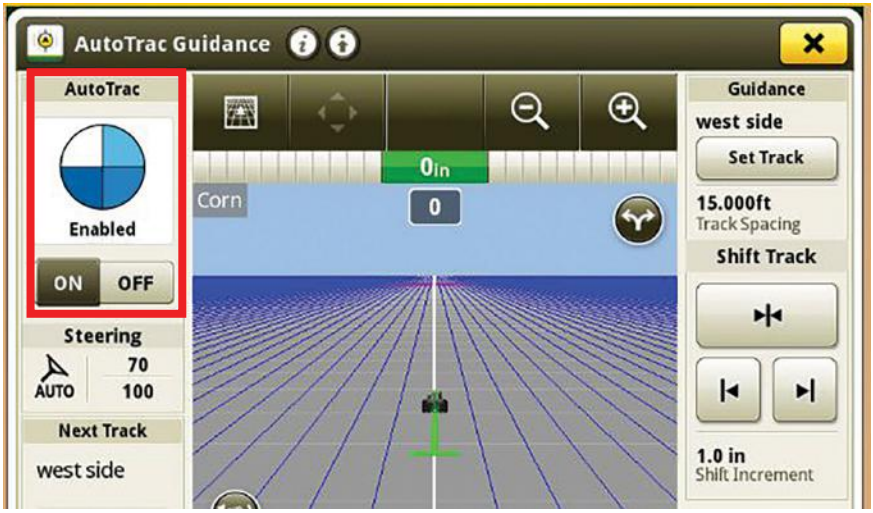


Gen4 Guidance Setup, continued

Give track a unique name and confirm it is in the correct field. Click OK to continue setup. Set A and drive line. Set B.



Turn On Autotrac and hit Resume button.

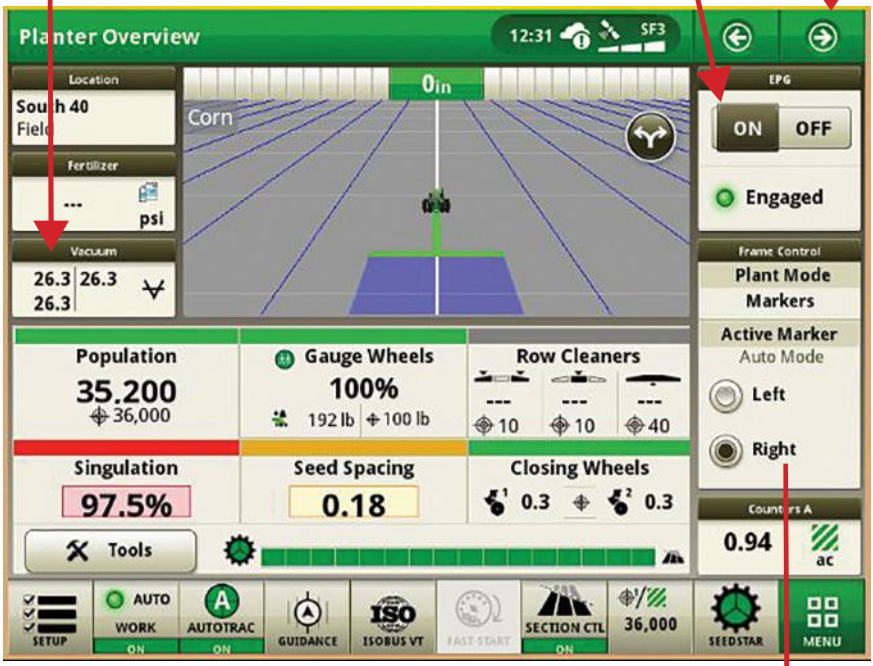


Planter Overview

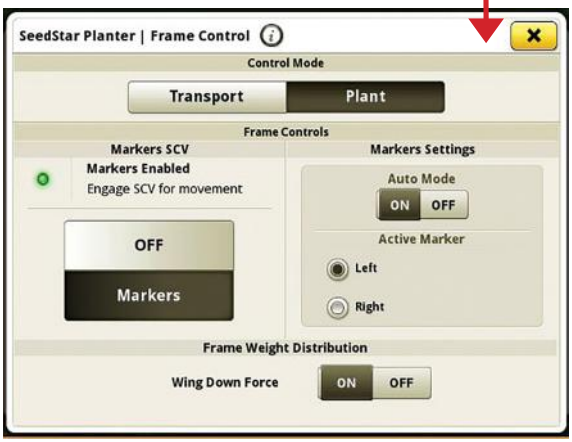
Vacuum Level Icon

Use arrows to scroll to default pages: Planter Overview, Planter Details & Planter Summary

EPG On/Off (PTO Engaged)



Press Frame Control to select transport or plant mode, enable markers, and frame weight distribution.

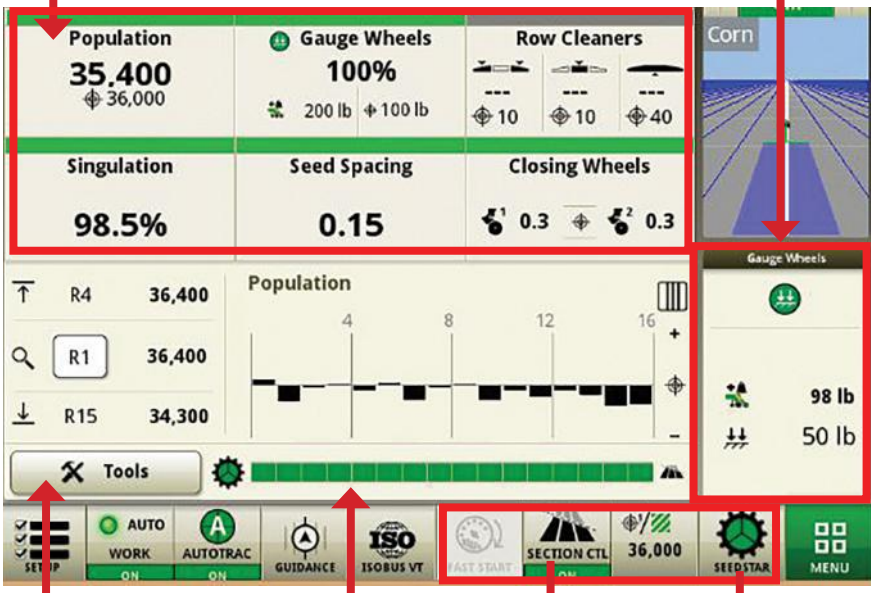


Planter Details

Actual Rate/
Target Rate

SS4 Run Pages - Select for more details

Downforce
Controls



Row Command
Sections

Shortcut Bar
Customize in
Layout Manager

Planter & Seed setup
/ Frame Control &
Diagnostics/
Fast Start

Rotate Meter/ Brush

Planter at a Glance

Black bars indicate row is planting normally.

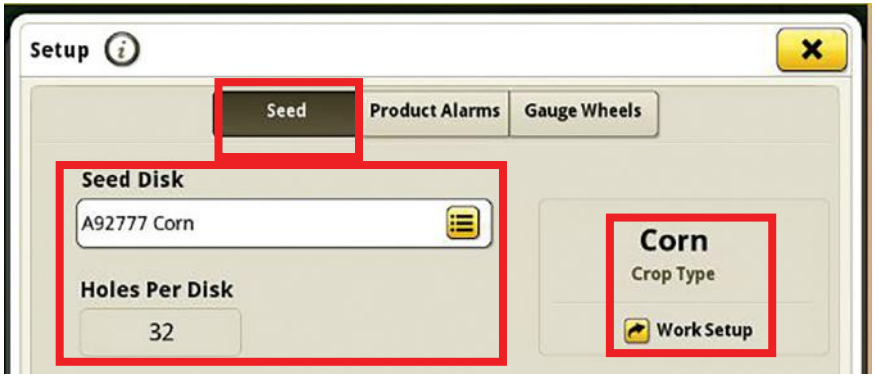
Orange bars indicate row is planting above or below alarm setpoints.

Red bars indicate row is not planting.

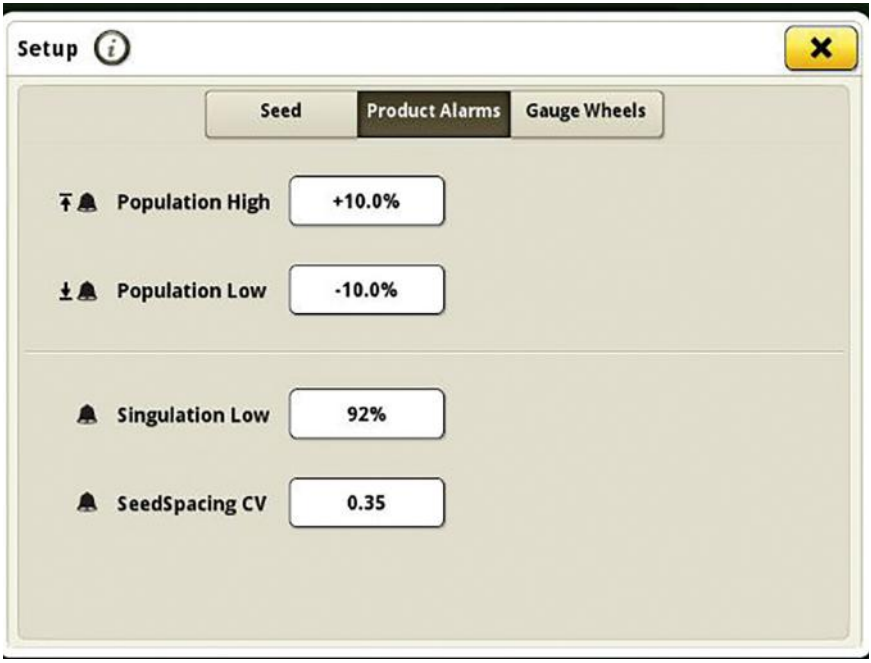
Planter — Seed Setup

Seed Setup

Select Planter Tools -> Seed tab. Confirm crop and choose correct Seed Disk. EE Meter = 32 Holes per disk (corn) (beans 64); 5E Pro-max 40 = 40 holes per disk

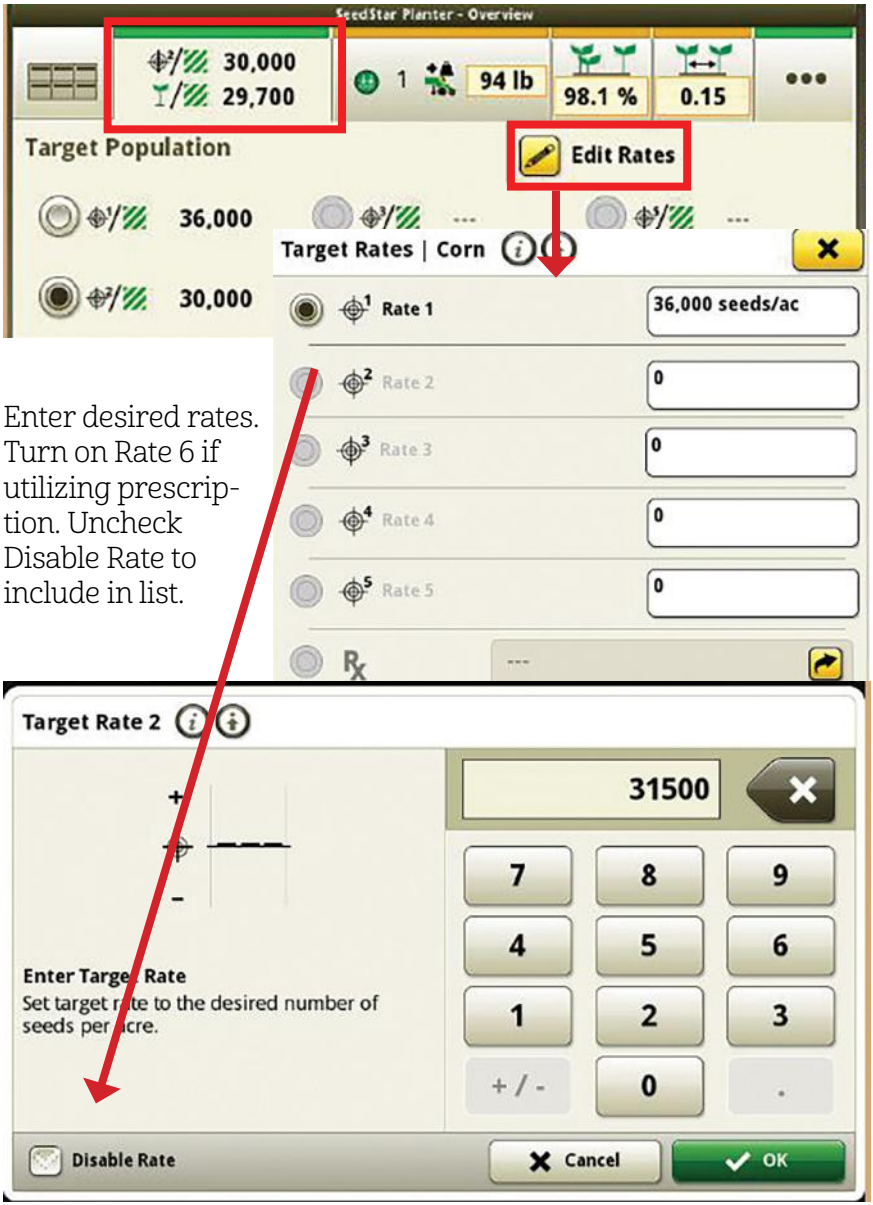


Under Product Alarms and Gauge Wheels customize high and low alarm limits.



Planter — Rates Setup

From the Planter Details page select the Population Tile to choose target population. Select Edit Rates to enter rates. Uncheck Disable Rate to enable rate.

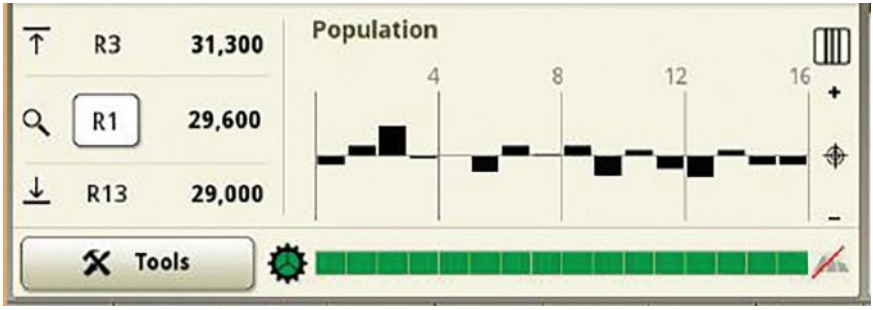


Enter desired rates. Turn on Rate 6 if utilizing prescription. Uncheck Disable Rate to include in list.

Seedstar Run Pages

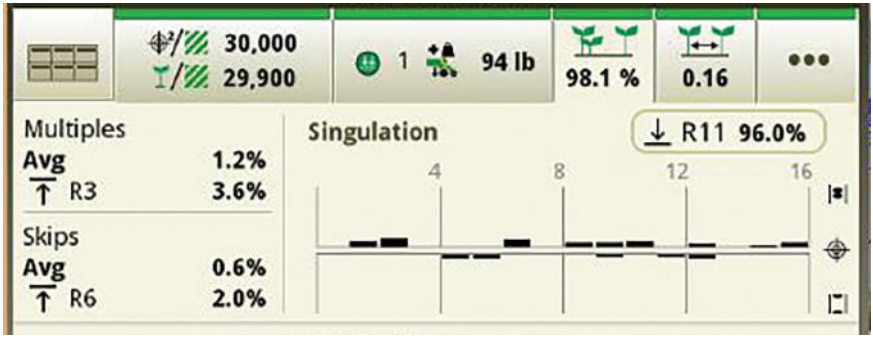
Seed Population

Shows the planter average (actual) and the current target (the average target with advanced populations). The bar graph shows the actual population per row and is selectable for expanded detail. Also displays min and max rows.



Seed Singulation

Shows the average seed singulation for all rows. The percentage of multiples are displayed across the top of the graph and the percentage of skips are displayed across the bottom. Averages and min/max are displayed to the left.



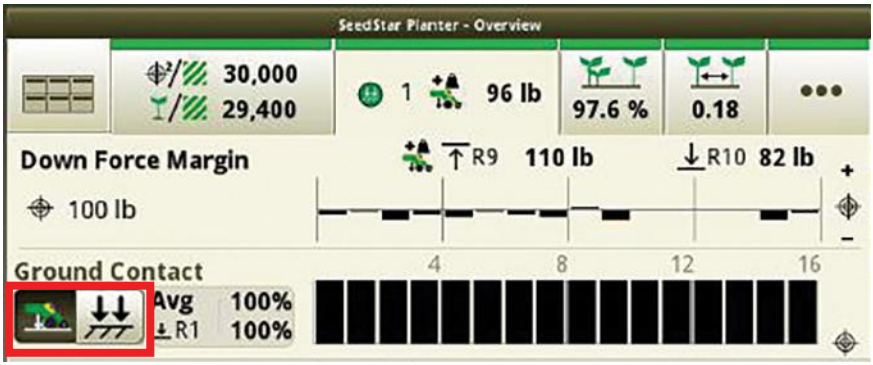
Seedstar Run Pages, continued

Gauge Wheels

The readings are only available from rows with downforce sensors.

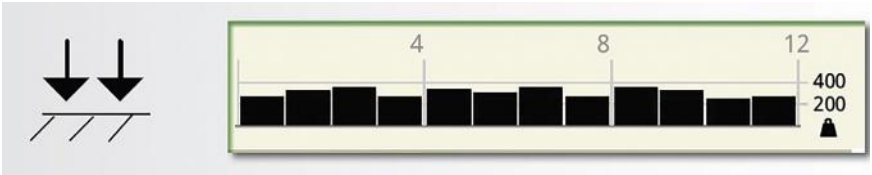
Downforce Margin:

The downforce margin is shown in the upper bar chart. The target margin is displayed as well as the two rows with the highest and lowest reading.



Ground Contact:

The bars show the percent of good ground contact. The percentage is also shown for the overall average and the row with the lowest value. Press button to toggle to applied downforce.

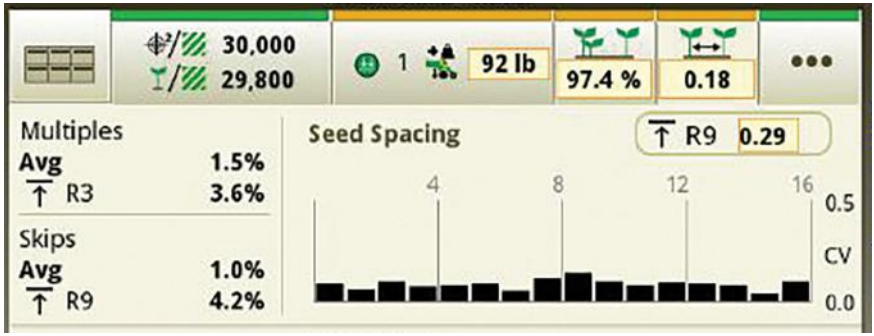


Applied Downforce:

The bars show the applied downforce for each row unit that has a downforce sensor. The average force is shown next to the toggle button.

Row Cleaners

Seed Spacing Coefficient of Variation (CV):
To open a bar graph that shows the consistency of seed spacing, select the tile or tab. Spacing is less consistent as the bar height increases. The degree of consistent spacing is displayed as the coefficient of variation (CV).



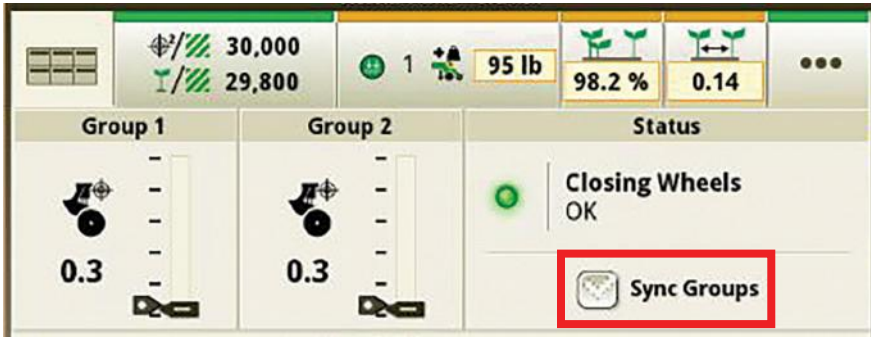
Row Cleaners:
The tile shows the target and current down pressure for row cleaners. Select tile to adjust row cleaners. Select from a preset or customize pressures by choosing wing, center, or up pressure.

Use toggle buttons to raise or lower.

1) ***Light*** - For light residue such as bean stubble
2) ***Medium*** - For medium residue such as corn stalks
3) ***Heavy*** - For heavy residue such as no till conditions

Closing Wheels

Pneumatic Closing Wheels:
The tile shows the current setting. The setting numbers represent the four positions of mechanical closing wheels and add a fifth position. The fifth position provides 75 lb more down pressure than mechanical closing wheels produce.

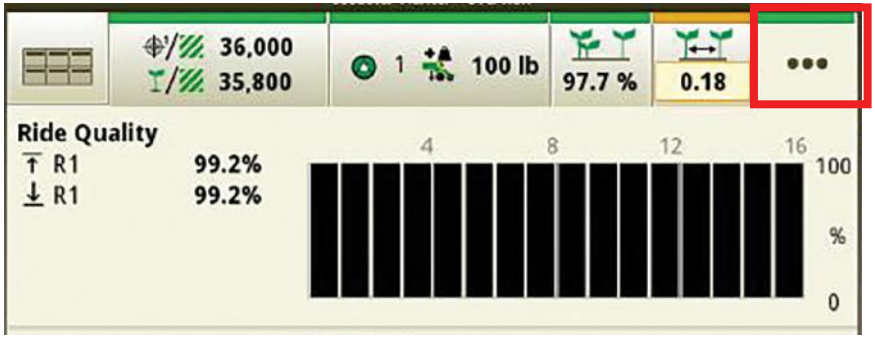


The closing wheel groups can be adjusted separately or synchronized. The groups are factory plumbed (typically separated for the wings and main frame).

Curve Compensation

Ride Quality

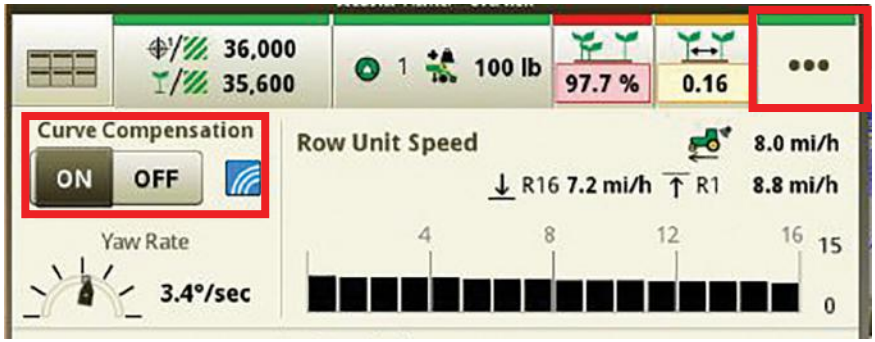
Ride quality can affect seed spacing and depth. Increasing the downforce improves the ride quality, but too much downforce reduces the quality of the seed furrow. Once the downforce is optimized, if the readings remain too low, reduce the ground speed to improve the ride quality.



Curve Compensation

The bar graph displays the ground speed for each row unit. The ground speed for the tractor and for the row units with the highest and lowest speed is shown above the graph. The meter motors adjust to the ground speed for an accurate population at every row.

Confirm Curve Comp is On.

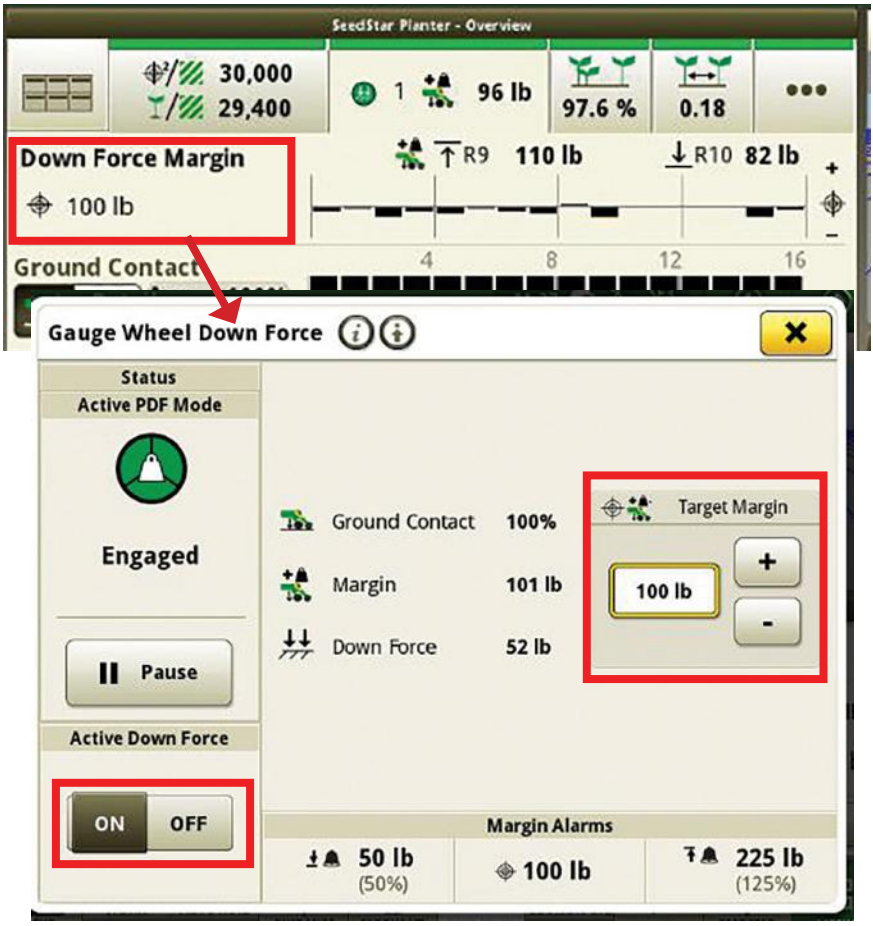


Yaw Rate indicator shows the current degree of turn.

Gauge Wheel Down Force

Active Downforce Automatically makes down force adjustments based on target down force margin and feedback from the gauge wheel sensors.

Center line is Target Margin. Bars above line indicate downforce levels higher than desired. Bars below line indicate levels are low.



Target Margin = Amount of extra downforce applied to row unit. Over and above what is required for the openers to penetrate soil and achieve full planting depth. Default = 75

Vacuum Automation & Fast Start

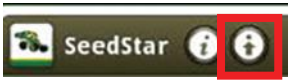
Select the Vacuum button and click SVC settings in the Automation box. Select automated control for vacuum and frame control. Click Next to complete setup. System will require a restart to save settings.

Press Vacuum Button to set target for appropriate seed disk and crop. See chart on page 31 for suggested pressures.

Fast Start:

Select Planter Tools -> Fast Start button to engage meter drives for 6 sec. (EPG and Frame height requirements must be met.)

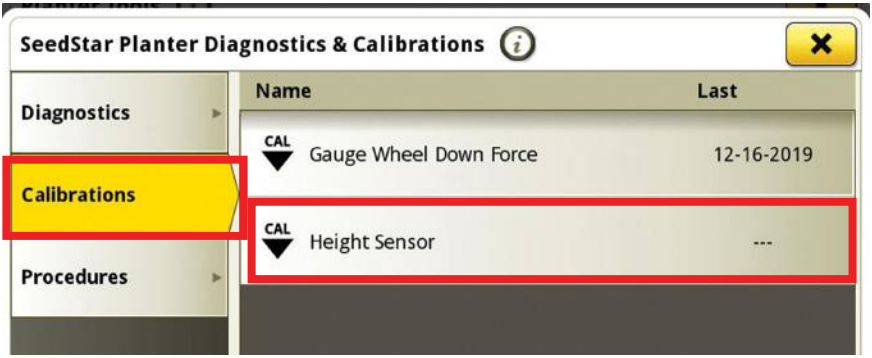
Go to Menu - > Machine Settings -> Seedstar. Click on Info and Settings icon on top left of screen to access “Auto-Enable Fast Start on Planter Down” and “Override Section Control During Fast Start”.



Height Sensor Cal

To calibrate the height sensor click the Tools button. Next select Planter Diagnostics and Calibrations.

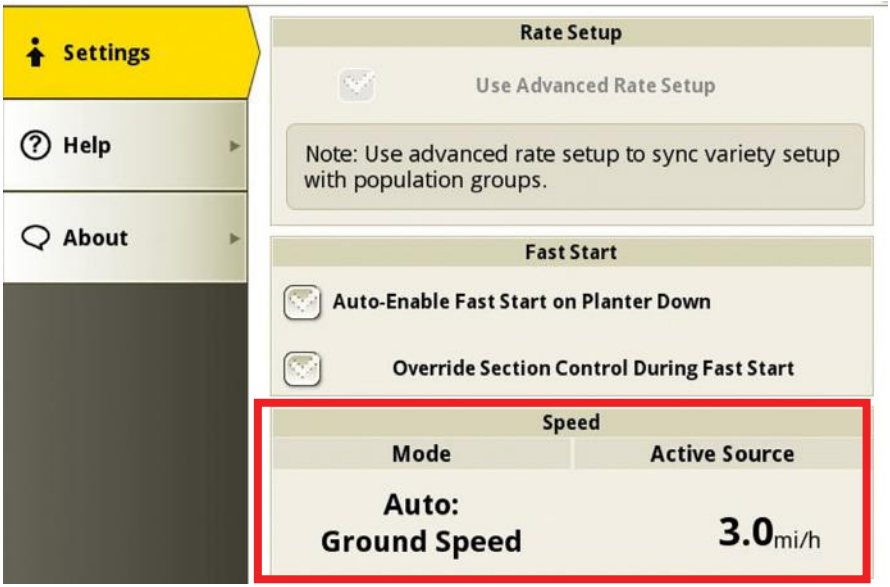
Go to Calibrations and select height sensor.



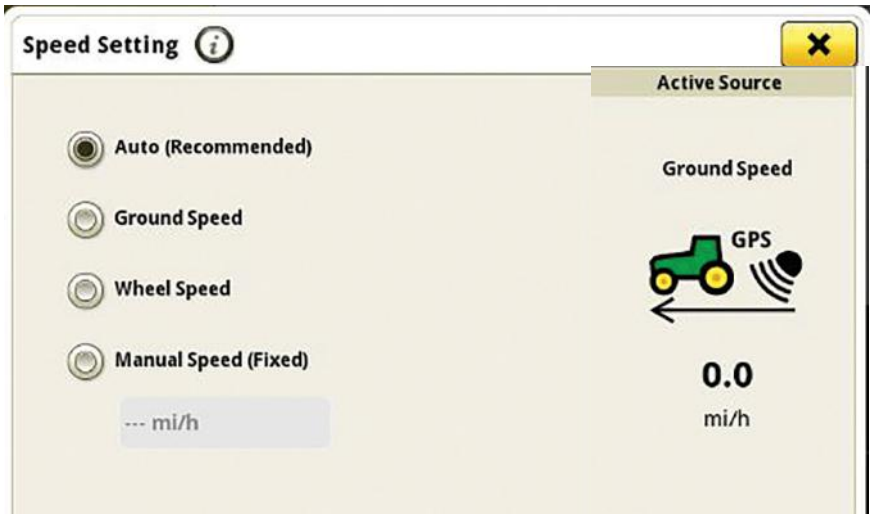
Follow the on screen prompts to calibrate.

Speed Source

Go to Menu - > Machine Settings -> Seedstar. Click on Info and Settings icon on top left of screen.



Click on Speed section and confirm that speed is set to Auto and is using either GPS speed or Radar.



Drive Status

Setting Up Shortcuts

Go to Menu -> Applications -> Layout Manager - > Shortcut Bars -> Default Shortcut Bar. Remove unnecessary shortcuts and add planter shortcuts. Click Save.

Drive Status

Select the status to view the requirements needed for engagement.


Error detected. Messages appear


The electric power generation is OFF.


The electric power generation is ON.


The ground speed requirement is met.


The planter is lowered.


All sections are commanded off, but all the drive requirements are met and ready.

Vac Pressure	Corn	Soybean
EE Meter Bowl	16 - 23	8 - 26
5E Promax 40	11 - 18	8

CCS Tank Pressure Settings for Common Crops

PRODUCT	DB44 24R22		
	Pressure (Inches H2O)	Small Seed Nozzle Inserts	Small Seed Discharge Elbows
Soybeans	12	No	No
Small Corn (Over 2000 seeds/lb)	10	No	No
Medium Corn (2000 to 1200 seed/lb)	12	No	No
Large Corn (Less than 1200 seeds/lb)	14	No	No
Cotton	10	No	No
Sorghum	8	Yes	Yes
Sunflowers	6	NO	No

PRODUCT	1725CCS, 1775NT 12R30, 16R30, Deere/Orthman 12R		
	Pressure (Inches H2O)	Small Seed Nozzle Inserts	Small Seed Discharge Elbows
Soybeans	12	No	No
Small Corn (Over 2000 seeds/lb)	10	No	No
Medium Corn (2000 to 1200 seed/lb)	12	No	No
Large Corn (Less than 1200 seeds/lb)	14	No	No
Cotton	10	No	No
Sorghum	8	Yes	Yes
Sunflowers	6	No	No
Small Popcorn > 4500 seeds/lb	10	Yes	Optional
Large Popcorn < 4500 seeds/lb	10	No	No
Sweet Corn	10	No	No

Note: *Set the tank pressure according to machine and crop when hoppers are full and machine is not moving.*

DB60 24R30, 36R20, 47R15, DB66 36R22			DB80 32R30, 48R20, 48R20, 36R30		
Pressure (Inches H2O)	Small Seed Nozzle Inserts	Small Seed Discharge Elbows	Pressure (Inches H2O)	Small Seed Nozzle Inserts	Small Seed Discharge Elbows
14	No	No	16	No	No
12	No	No	14	No	No
14	No	No	16	No	No
16	No	No	18	No	No
12	Yes	Optional	12	Yes	Optional
10	Yes	Yes	10	Yes	Yes
6	No	No	8	No	No

1775NT 24R30, Deere/Orthman 16R, 18R, and 24R30			1795 and Deere/Orthman 24R20, 24R22		
Pressure (Inches H2O)	Small Seed Nozzle Inserts	Small Seed Discharge Elbows	Pressure (Inches H2O)	Small Seed Nozzle Inserts	Small Seed Discharge Elbows
14	No	No	12	No	No
12	No	No	10	No	No
14	No	No	12	No	No
16	No	No	14	No	No
12	Yes	Optional	10	No	No
10	Yes	Yes	8	Yes	Yes
6	No	No	6	No	No
12	Yes	Optional	10	Yes	Optional
12	No	No	10	No	No
12	No	No	10	No	No

Need Assistance? Contact us!

Belle Plaine, MN	952-873-2224
Bird Island, MN	320-365-3445
Blue Earth, MN	507-526-2714
Brookings, SD	605-693-3514
Garretson, SD	605-594-3476
Hollandale, MN	507-889-4221
Huron, SD	605-352-8519
Madison, SD	605-256-4575
Mankato, MN	507-387-8201
Marshall, MN	507-537-1523
Milbank, SD	605-432-5523
Minnesota Lake, MN	507-462-3828
Montevideo, MN	320-269-6466
Northwood, IA	641-324-1154
Osage, IA	641-732-3719
Owatonna, MN	507-451-4054
Redwood Falls, MN	507-644-3571
Sleepy Eye, MN	507-794-5381
Tyler, MN	507-247-5572
Wabasso, MN	507-342-5171
Watertown, SD	605-886-3545
Wheaton, MN	320-563-8112

www.KibbleEq.com

Your Farm. Your Future.
Our Focus.