



**KIBBLE
EQUIPMENT**

Your Farm. Your Future. Our Focus.

READY TO PLANT GUIDE

2630 & Gen4
Monitors
Seedstar 2 XP

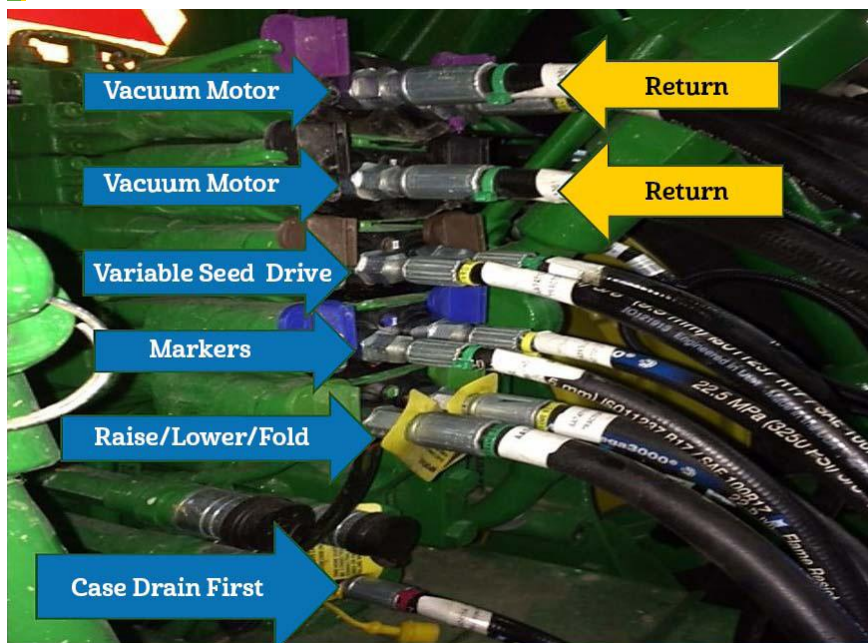


JOHN DEERE

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Hydraulic Hook Up



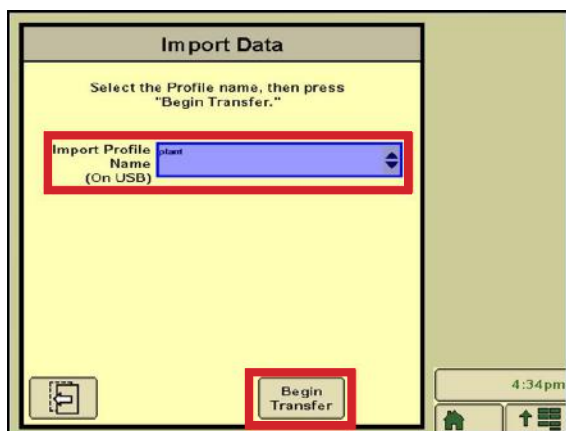
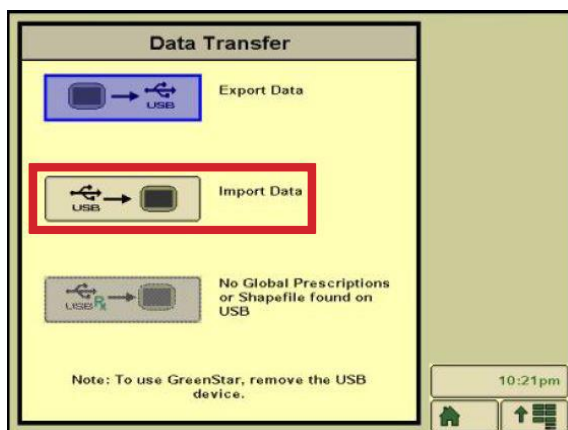
Hydraulic Hook Up					
Hose ID	SCV	Pressure	Return	Flow	Detent
Frame/CCS	I	Extend	Retract	10 max	Constant 'C'
Markers	II	Extend	Retract	5	10 secs
Variable Rate Drive	III	Retract/ PB Pressure	Extend/ PB Return	10	Constant 'C'
Vacuum System	IV	Retract	Extend	4-7	Constant 'C'
Vacuum System	III	Retract	Extend	4-7	Constant 'C'

- Case drain should be connected prior to any other hose
- VRD can be plumbed to power beyond pressure and return if no SCV available
- Vacuum and VRD return hoses must be connected to tractor EXTEND port
- Avoid Pressure spikes by putting SCV's into FLOAT position

2630 Importing Data

Data Import using a USB Drive

1. Insert USB drive, loaded with your data, into the GS3 2630. Data transfer screen will appear. Select the Import Data button.
2. Select the correct Import Profile Name then the Begin Transfer button.



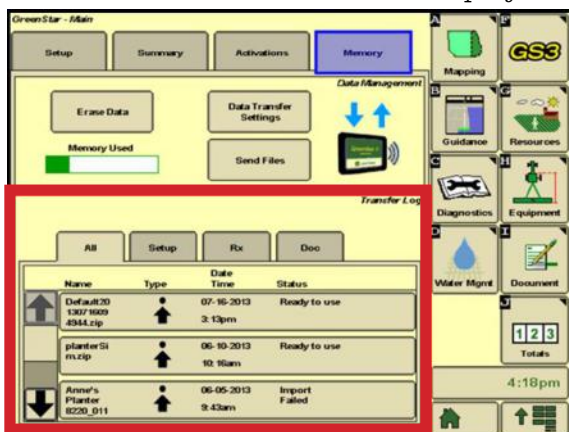
3. Remove the USB drive after the transfer is complete.

Note: Profile name would have been created during the creation of the setup file.

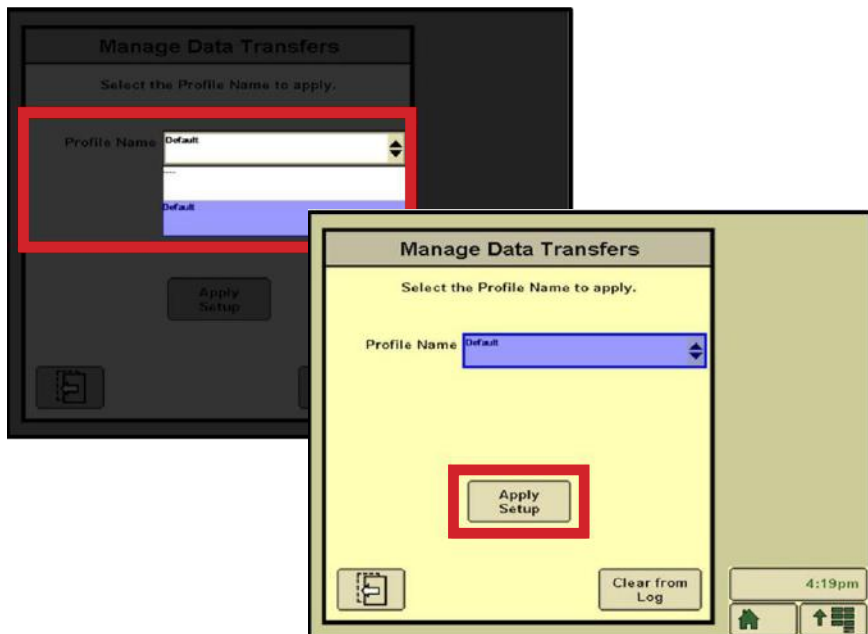
2630 Importing Data, continued

Data Import using Wireless Data Transfer

1. Select Menu -> GS3 - GS3 -> Memory tab. A list of available files in the Transfer Log at the bottom of the page should be visible. Select the file to load onto the display.



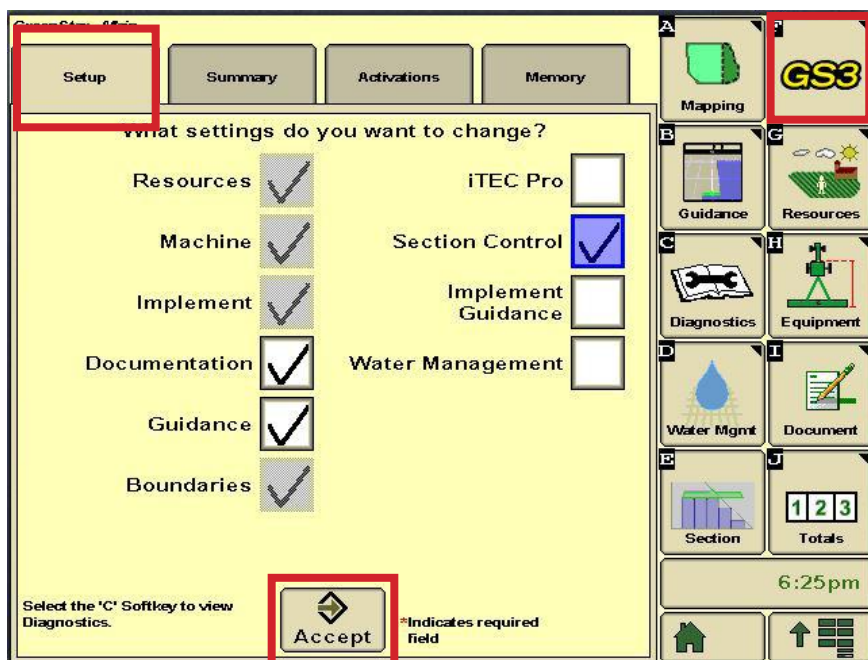
2. Confirm the name of the file from the drop-down box and select Apply Setup.



2630 Display Setup

Display Setup

1. Select the Menu button then select the GS3 button.
2. On the Setup tab, ensure there is a check mark next to Documentation, Guidance, and Section Control. Next select Accept.



2630 Resources Setup

3. If field boundaries have been loaded, select Find Field. If not, manually select the needed Client, Farm and Field.

Note: Be sure to also select the appropriate Task and Crop Season (i.e. crop year).

Select the Next button.

GreenStar - R/C

Resources

Client: Deere

Farm: Simulator

Field: South 40

Task: Planting

Crop Season: 2020

Operator: me

Lic #

0.00 (ac)

Field Locator (Requires exterior boundary)

Field Locator On/Off

Find Field

Input Client, Farm, and Field. If you would like to use Documentation, select a Task. Note: coverage maps can be created with Documentation Off.

1 / 9

Next

Exit Setup

6:28pm

2630 Machine Setup

3. Select Machine Name. Check that Recording Source is grayed out to Auto. Make sure the offsets loaded are accurately listed on the screen. If not, correct any errors by selecting Change Offsets.

Select the Next button to continue.

GreenStar - Equipment

Machine

Machine Type: Tractor
Machine Model: 8360R
Machine Name: 8360R
Connection Type: Rear Pivot Drawbar

Machine Turn Radius: 22.0 (ft)
Turning Sensitivity: 70

COM Port

0.0 (in) Offsets
71.7 (in)
49.9 (in)

Change Offsets

Recording Source: * AUTO

Documentation and Coverage

2 / 9

Exit Setup

6:30pm

Machine Offsets

A	0.0	(in)
B	71.7	(in)
C	46.9	(in)
D	0.00	(in)

Non-Steering Location: Rear Axle

A Lateral distance from center-line of machine to GPS receiver
B In-line distance from non-steering axle to GPS receiver
C In-line distance from non-steering axle to connection point
D Vertical distance from GPS receiver to the ground

Accept

Machine Offsets

A or 1) Center of GPS Receiver to Center line of Machine



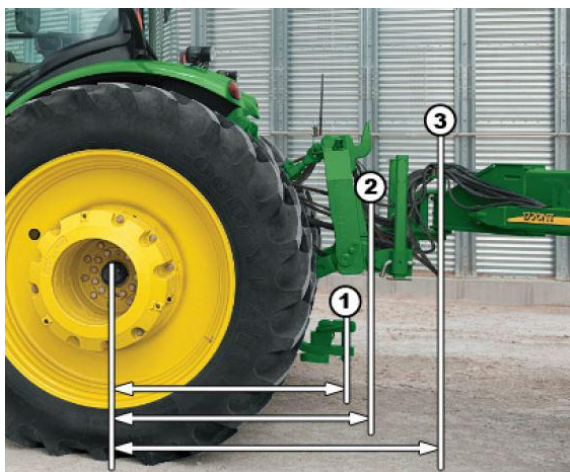
B or 2) Center of GPS Receiver to Center line of Non-Steering Axle



Machine Offsets, continued

C or 3) 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



D or 4) Center of GPS Receiver to Ground



Non steering axle = front on 4 wheel drive

2630 Planter Setup

5. Select Implement Name. Make sure the offsets and implement width loaded are accurately listed on the screen. If not, correct any errors. Select the Next button.

GreenStar - Equipment

Implement

Implement Type: Planter
Implement Model: Planter
Implement Name: A008850004200000

Physical Width: 60.000 (ft)
Implement Width: 24 (rows)
Track Spacing: 12 (rows)

Offsets

Change Offsets

Widths

Row Mtd: 30 (in)
Row Mtd: 30.0 (in)
Change Widths

3 / 9

Exit Setup

7:00 pm

Offsets

A	21.0 (ft)
B	1.0 (ft)
C	0.0 (in)
D	24.0 (ft)
E	0.0 (ft)

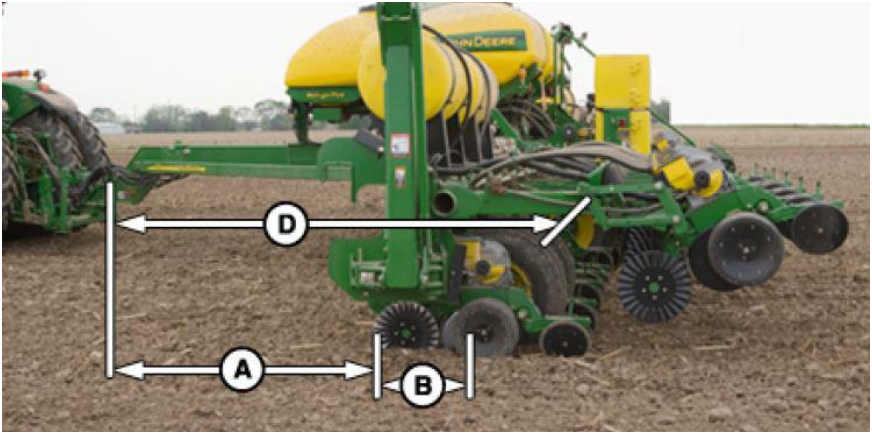
A In-line distance from connection point to front of implement
B In-line distance from front to rear of implement
A+B = Documentation/Section Control location when in use
C Lateral distance from connection point to control point of implement
D In-line distance from connection point to control point of implement
E In-line distance from connection point to connection point for 2nd implement. Value only needed if second implement is used.

7:00 pm

Planter Offsets

A or 1) Connection Point to First ground contact point

B or 2) First ground contact point to seed drop point.



C or 3) Lateral offset from center of machine to center of implement width.

D or 4) Connection Point to rotation point of planter (center of fixed axles)



2630 Section Control Setup

- Section Control setup. Check mark Section Control Master to enable. Verify Overlap Settings and Turn On/Off Settings are accurate. Select the Next button.

Section Control

Review the Section Control Settings to ensure desired operation.

4 / 9

Exit Setup

7:19pm

SECTION CONTROL

Section Control Master

Operation 1 Planting / Seeding

HEADLAND CONTROL

Headland Control

Note: Requires a headland boundary.

Overlap Settings

Turn On/Off Settings

Section Control Map Settings

Overlap Settings

Exterior Boundaries

Minimize Skip

100 %

Interior Boundaries

Minimize Overlap

0 %

Coverage

Minimize Skip

100 %

Cancel ? Accept

Section Control On/Off Settings

Turn on (sec.)

Turn off (sec.)

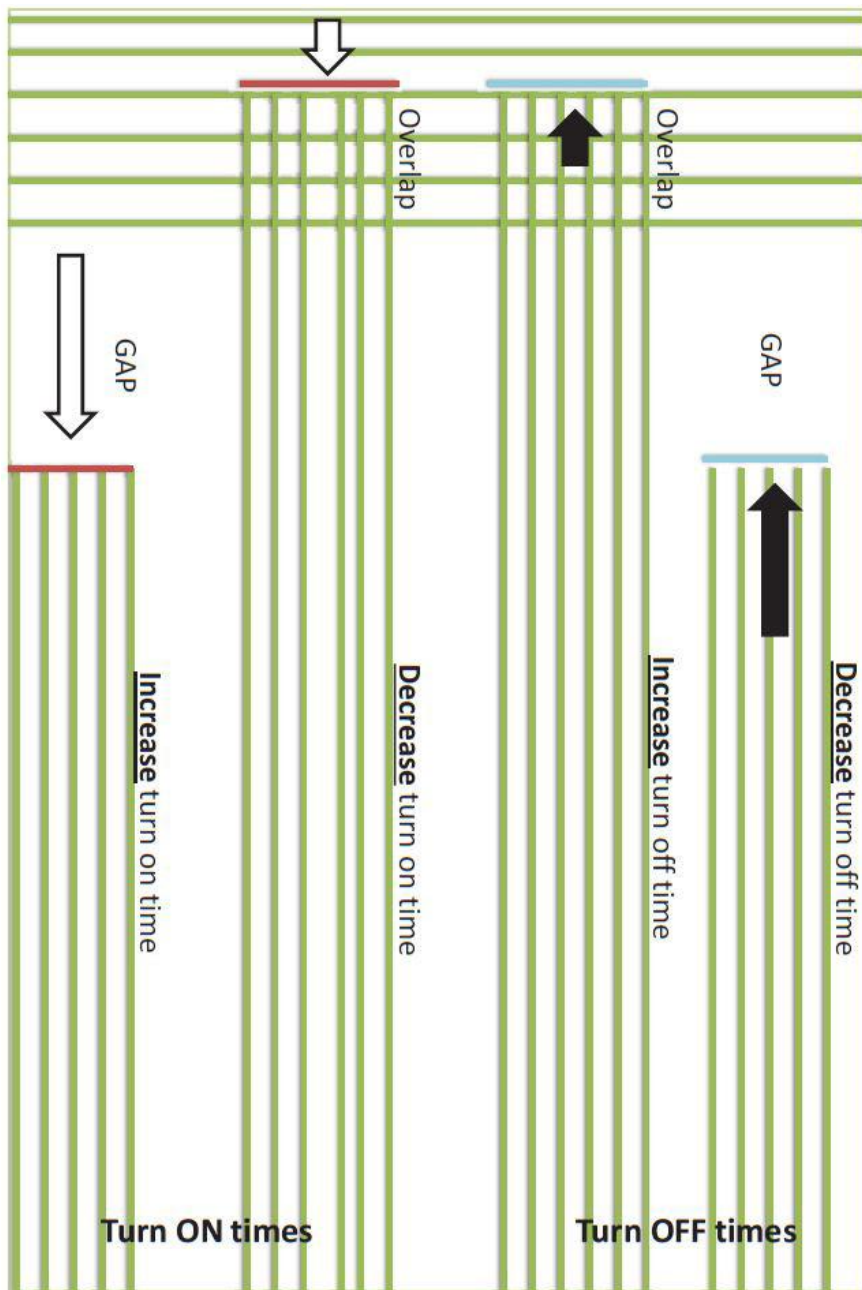
Operation 1 Planting / Seeding

1.0 0.6

Cancel ? Accept

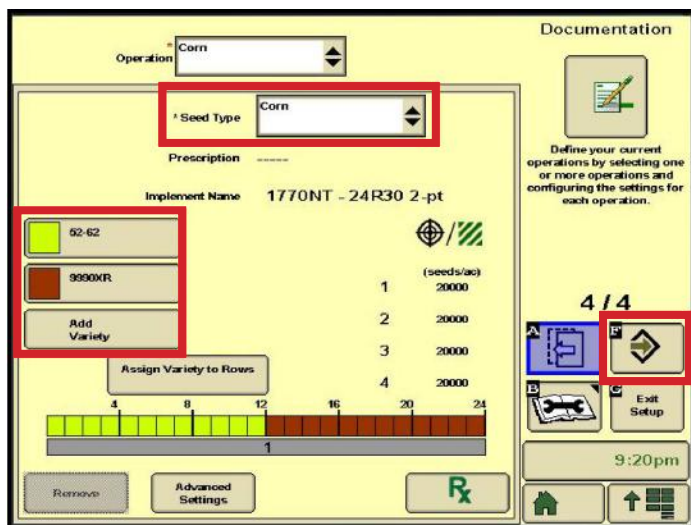
Note: Default settings for rowcrop planters - On time between 0.5 & 1.0 sec and Off time to 0.3 sec. See chart on next page to fine tune.

2630 Section Control Setup, continued

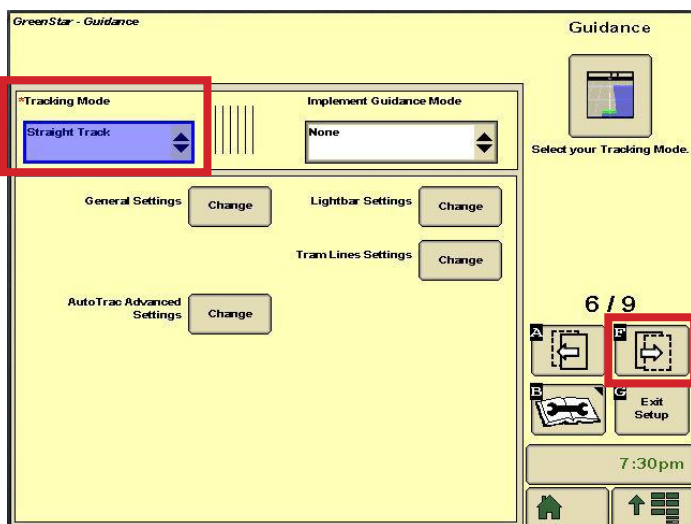


2630 Documentation Setup

7. Select Seed Type and Add Variety and Assign to Rows. Click Next to continue.



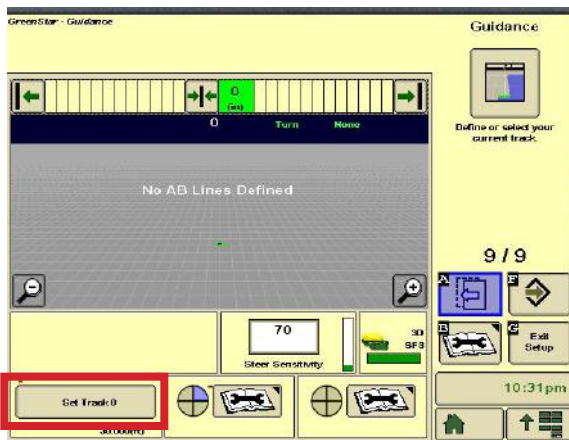
8. Select Tracking Mode and then Next to continue.



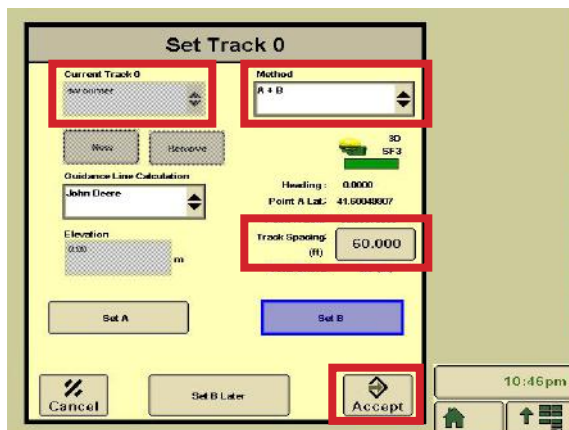
9. Turn on Small Shifts and then Next to continue.

2630 Guidance Setup

10. Create boundary or click Next to continue.
11. Click Set Track 0.



12. Choose New -> Create Name -> Choose Method (A+B, A+-Heading, etc.) -> Set A -> Set B or enter heading -> Accept to create Track

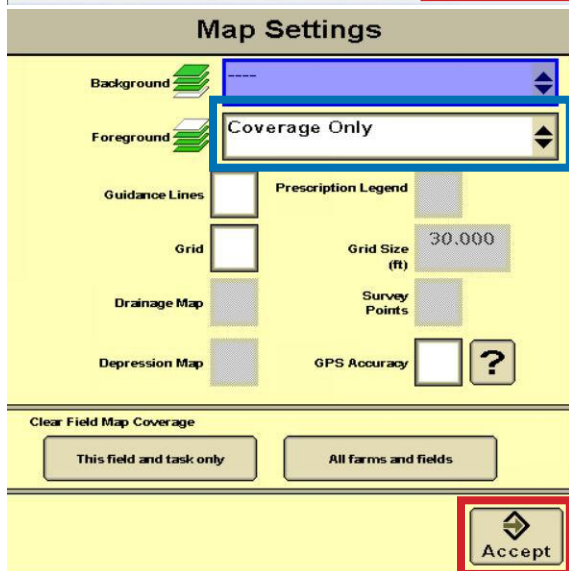
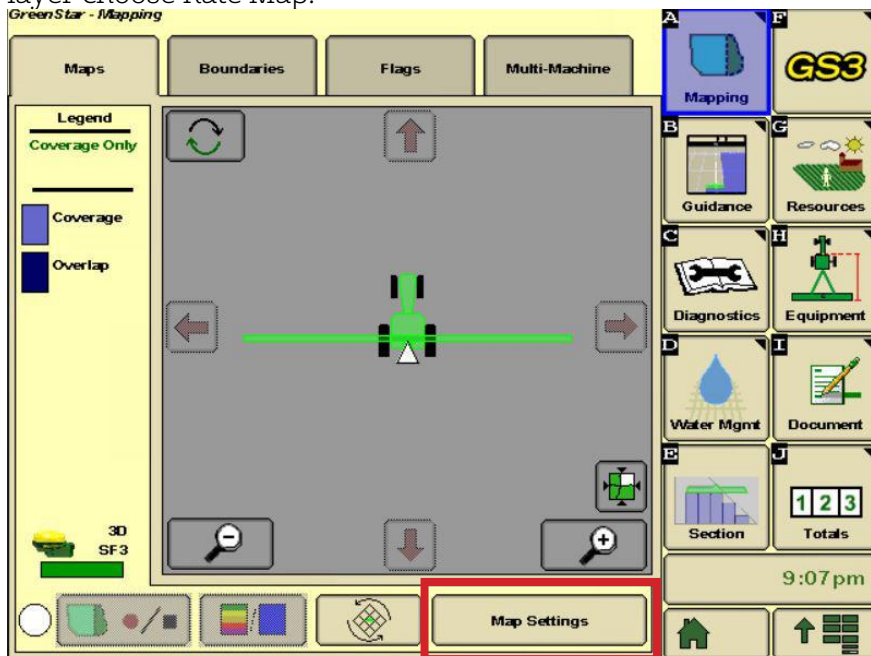


Verify Track Spacing is Correct

2630 Mapping Setup

Changing Coverage Map to a Rate Map

Select GS3 then Mapping. Click Map Settings and for Foreground layer choose Rate Map.

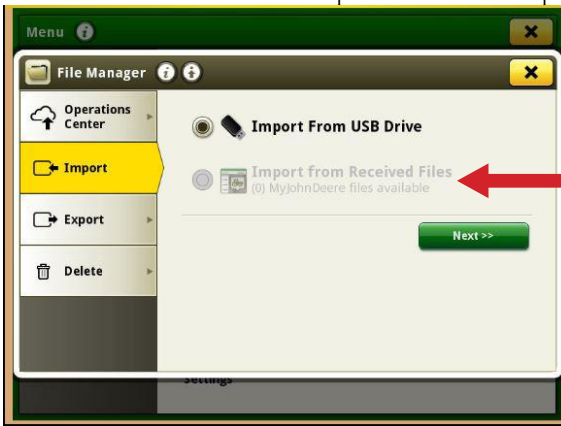


Note: A RX can be loaded to the background.

Gen4 Importing Data

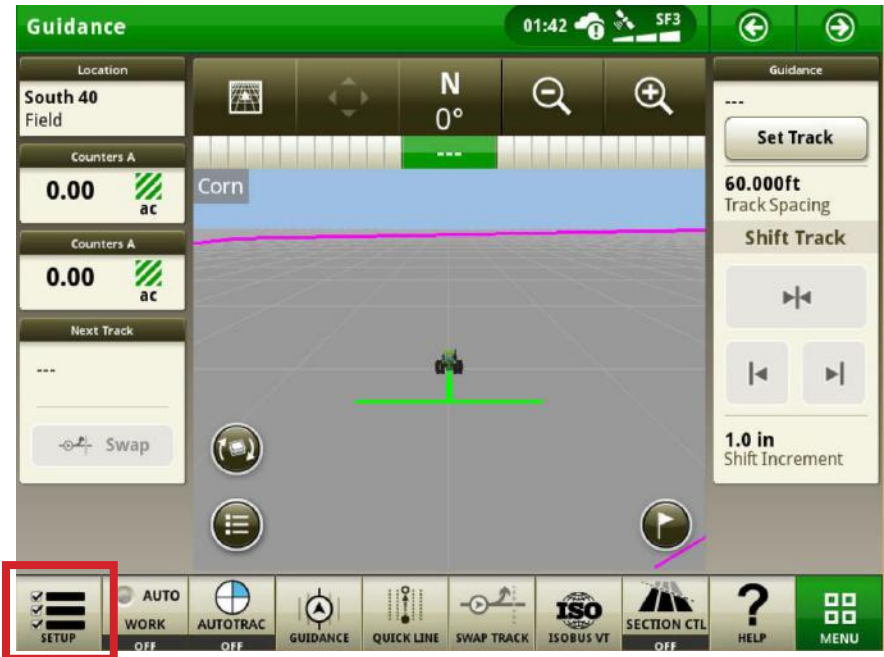
Data Import using a USB Drive

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



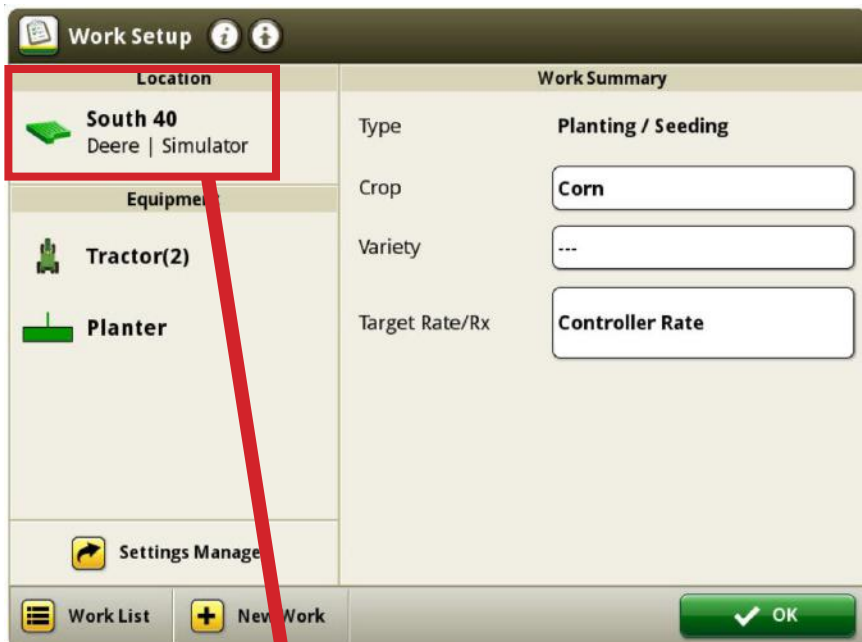
When files are sent wirelessly from MyJD. Choose Import from Recieved Files.

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.

The screenshot shows the 'Work Setup' interface. The 'Location' is 'South 40' (Deere | Simulator). The 'Work Summary' shows 'Type: Planting / Seeding', 'Crop: Corn', 'Variety: ---', and 'Target Rate/Rx: Controller Rate'. The 'Equipment' section is highlighted with a red box, showing 'Tractor(2)' and 'Planter'. A red arrow points from this section to the 'Equipment' dialog box below.

The 'Equipment' dialog box is open, showing a list of equipment items: 'Tractor(2)' and 'Planter'. There is an 'Add Operation' button at the bottom.

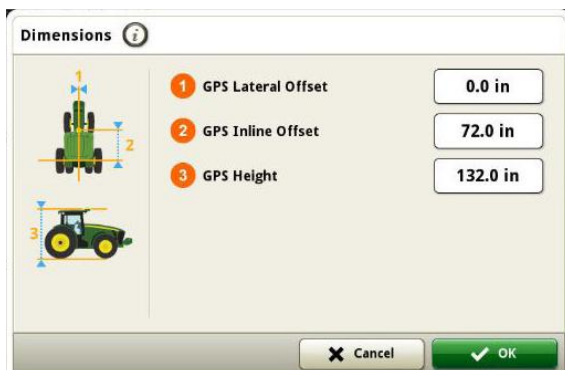
4. Select Tractor and enter offsets. Next select Planter and insert offsets.

Gen4 Machine Profile

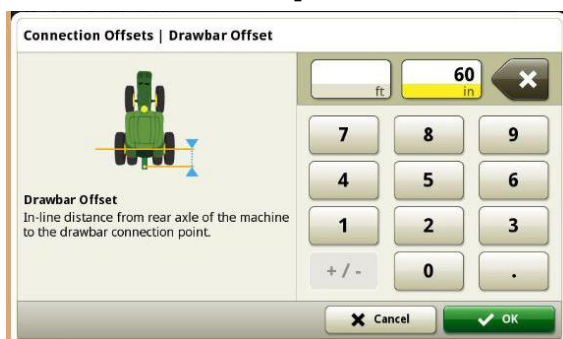
5. Under Machine Profile select GPS offsets.



6. Enter receiver measurements.

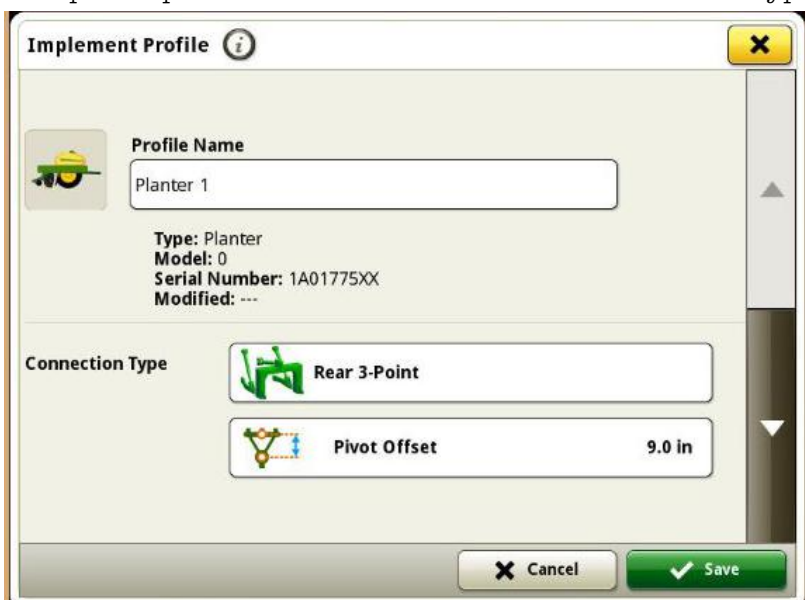


7. Select Connection Offset, select Hitch Type and enter measurement from axle to connection point.



Gen4 Implement Profile

8. Open Implement Profile. Choose correct Connection Type.



The screenshot shows the 'Implement Profile' dialog box. At the top, there is a title bar with an information icon and a close button. Below the title bar, there is a profile name field containing 'Planter 1'. Underneath, the following details are listed: Type: Planter, Model: 0, Serial Number: 1A01775XX, and Modified: ---. The 'Connection Type' section has two options: 'Rear 3-Point' (selected) and 'Pivot Offset' (with a value of 9.0 in). At the bottom, there are 'Cancel' and 'Save' buttons.

Implement Profile ⓘ

Profile Name
Planter 1

Type: Planter
Model: 0
Serial Number: 1A01775XX
Modified: ---

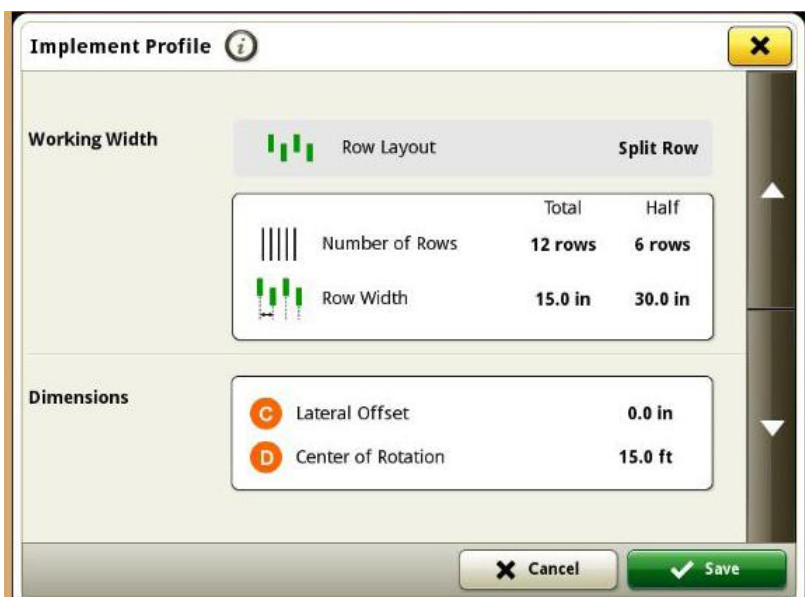
Connection Type

Rear 3-Point

Pivot Offset 9.0 in

✕ Cancel Save

9. Verify Planter Working Width and Dimensions.



The screenshot shows the 'Implement Profile' dialog box with the 'Working Width' and 'Dimensions' sections expanded. The 'Working Width' section has two tabs: 'Row Layout' (selected) and 'Split Row'. Under 'Row Layout', there is a table with the following data:

	Total	Half
Number of Rows	12 rows	6 rows
Row Width	15.0 in	30.0 in

The 'Dimensions' section has two settings: 'Lateral Offset' (0.0 in) and 'Center of Rotation' (15.0 ft). At the bottom, there are 'Cancel' and 'Save' buttons.

Implement Profile ⓘ

Working Width

Row Layout Split Row

	Total	Half
Number of Rows	12 rows	6 rows
Row Width	15.0 in	30.0 in

Dimensions

Lateral Offset 0.0 in

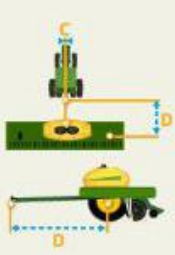
Center of Rotation 15.0 ft

✕ Cancel Save

Gen4 Implement Profile, continued

10. Select Dimensions. Enter Lateral Offset & Center of Rotation.

Dimensions



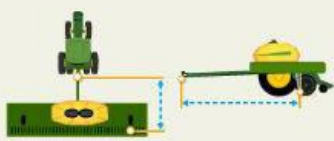
C Lateral Offset

D Center of Rotation

Center of Rotation is measured from connection point to center of frame wheels.

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

Work Point



Work Point
Distance from the Connection Point to the location where seed is dropped.

7	8	9
4	5	6
1	2	3
+ / -	0	.

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.

Work Setup ⓘ ⓘ

Location	Work Summary
South 40 Deere Simulator	Type: Planting / Seeding
Equipment	Crop: Corn
Tractor(2)	Variety: TEST
Planter 1	Target Rate/Rx: Controller Rate

Settings Manager

Work List + New Work

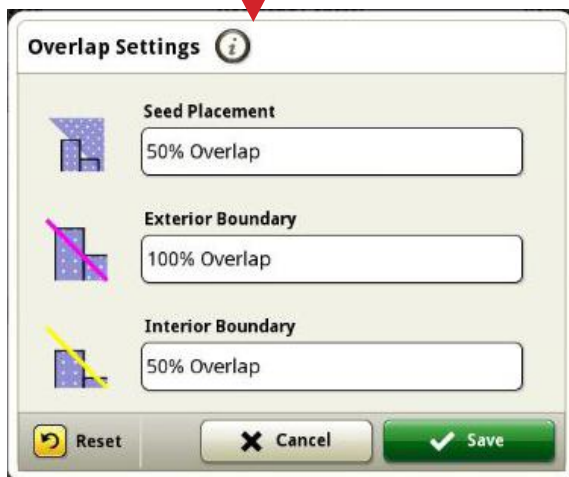
Target Rate/Rx ⓘ

Controller Rate

Rx

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.

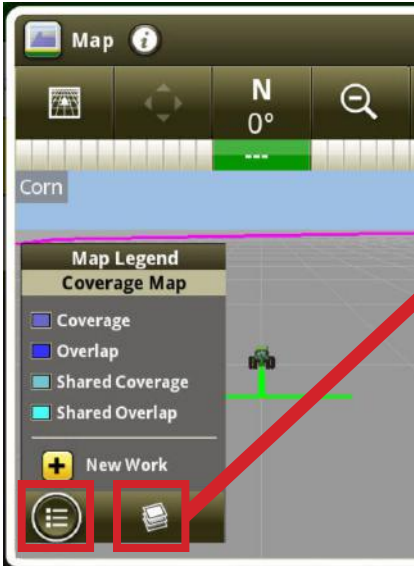


Go to Menu -> Applications -> Layout Manager to create a section control master switch on the Shortcut Bar.



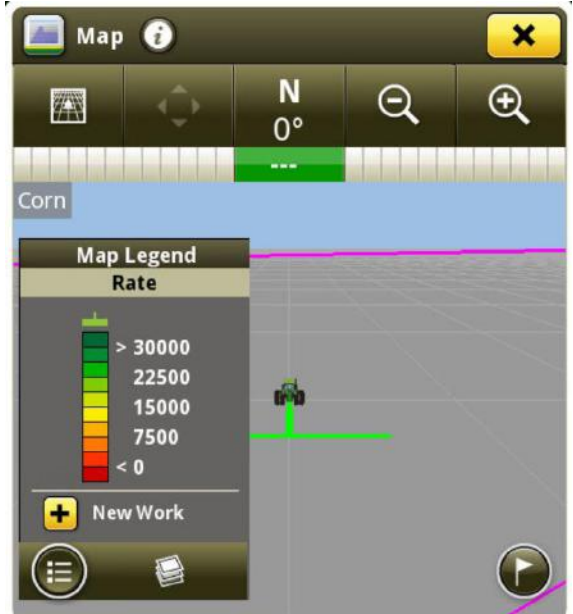
Gen4 Map Setup

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.



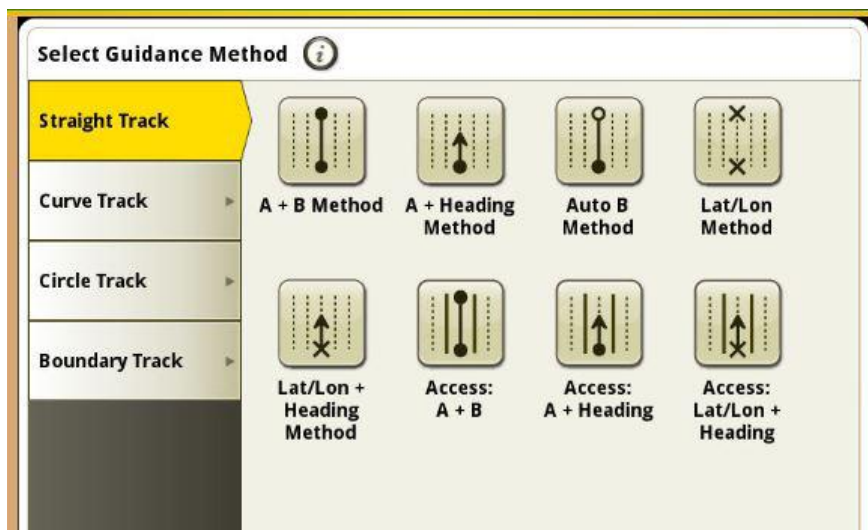
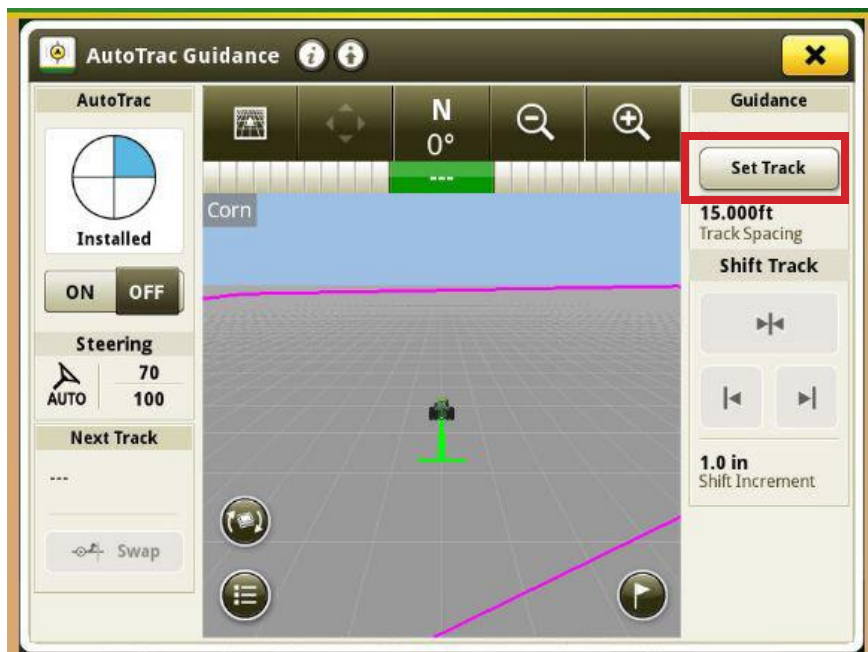
Select Rate and OK to save settings.

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



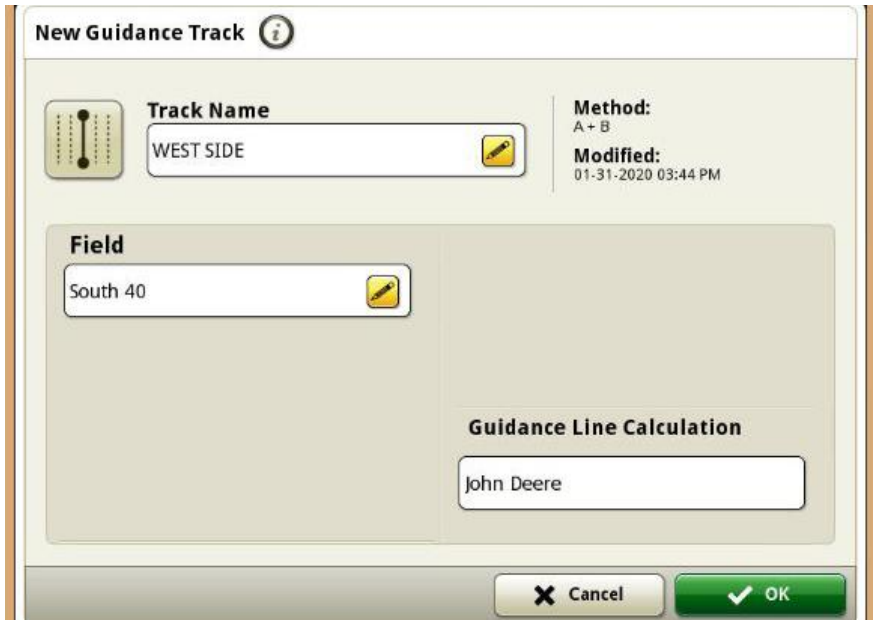
Gen4 Guidance Setup

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.

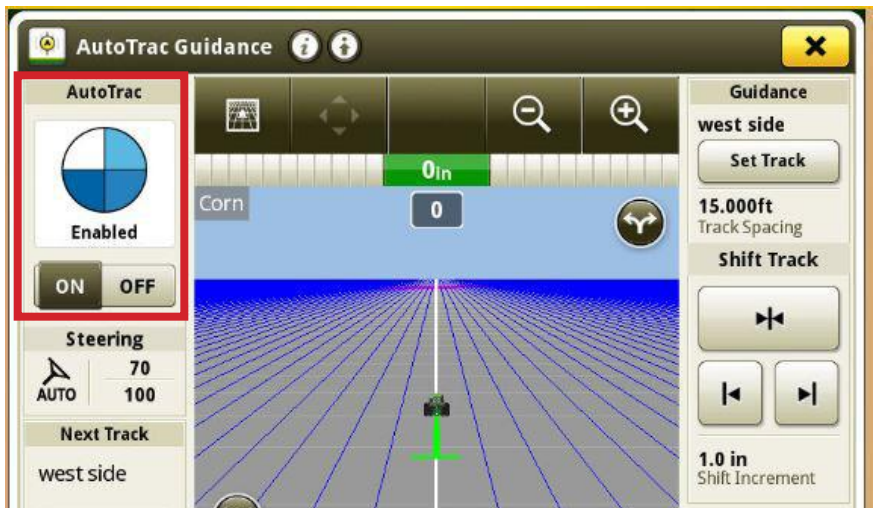


Gen4 Guidance Setup, continued

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 or enter heading.



Turn On Autotrak and hit Resume button.



Seedstar 2 XP

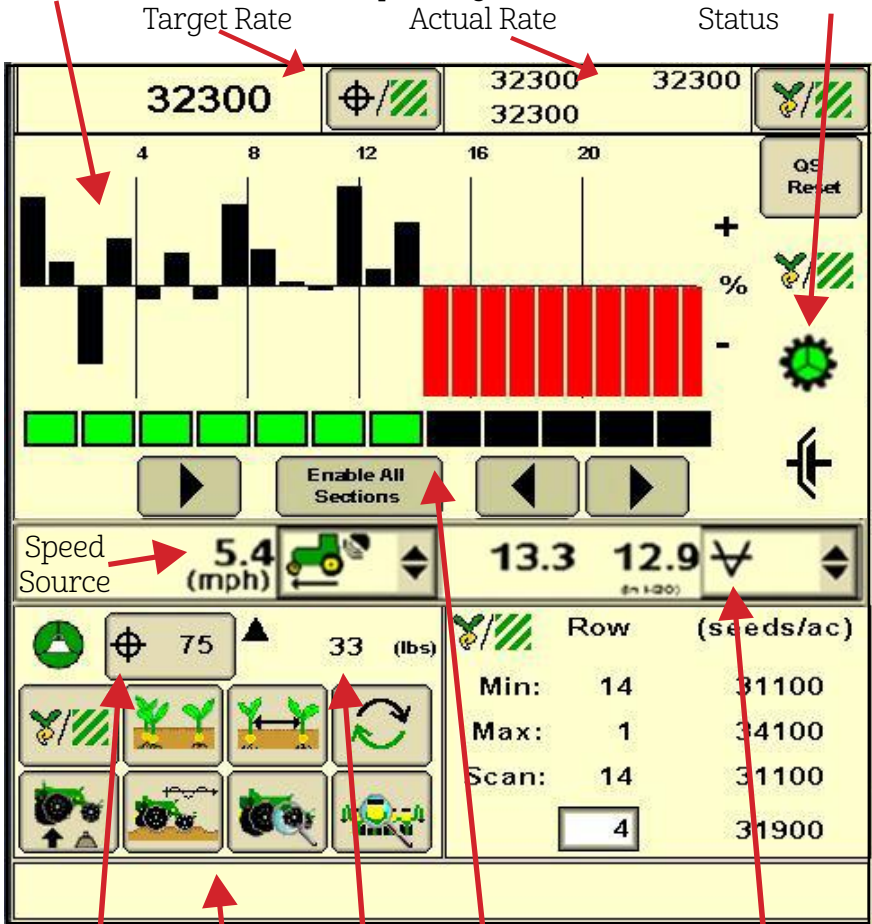
Planter at a Glance

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.

Rotate Meters/VRD Status



Target Rate

Actual Rate

SeedstarXP Buttons

Row Command Sections

Vacuum Level

Active Pneumatic Down Force Target Margin

Actual Margin

Planter – Rates Setup

Crop Setup

Select Rates (Soft key H). Next, select Crop Name from the drop down menu. Select correct Disk Type and Seed Disk. Press Show Rates to add Target Rates.

Planter - Rates

Crop Name: **Corn** Edit Crop Name

Show Rates

Use 1 Rate for All Motors

Disk Type: **Corn**

Seed Disk: **A52391 ProMAX 40 Corn**

Population Adjust: **1.00**

Corn

	(seeds/ac)	Target Population:
1	32000	
2	32300	
3	Off	
4	Off	
5	Off	
6	Off	

Change Rates

Recommended Vacuum pressures:

ProMax 40 Corn - 11 - 18
Soybean disk - 8

Planter – Rates Setup, continued

Select the Target Rate input box and enter the desired population. Drop down menu to turn On rate so it is available on Target list.

Note: If using a prescription, turn on Rate 6.

Select Accept to save.

Planter - Rates

Corn

Rate 1

On

(seeds/ac)

Target	32000
High	35200
Low	28800

Avg. Spacing: 0.00 (in)

6:19pm

VRD Status

1.



No Activity

2.



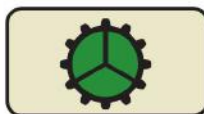
Wheel Motion, Sensor Active

3.



Planter Lowered

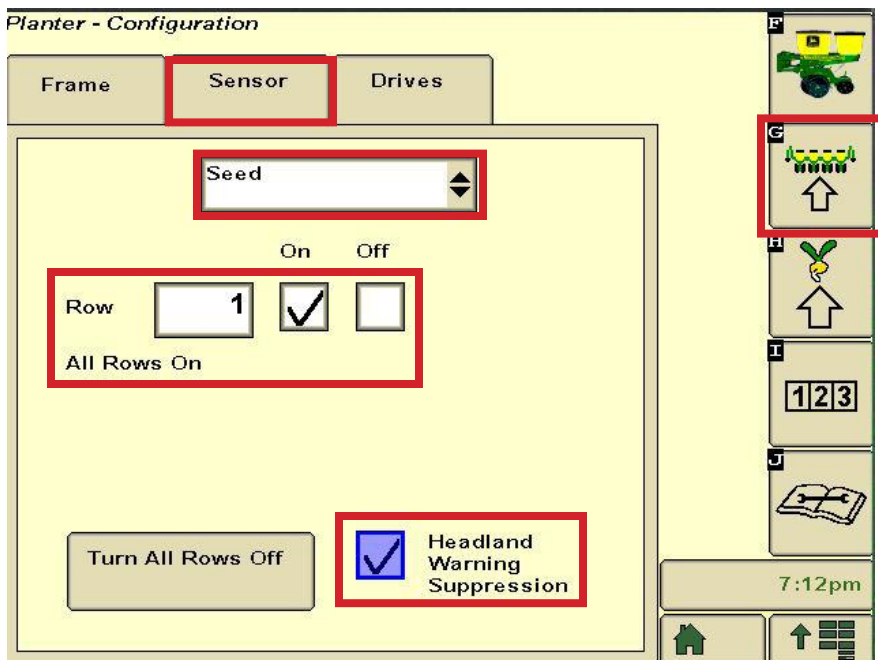
4.



Drives Engaged

Planter – Sensor Setup

Select Planter Configuration (Button G) -> Select the Sensor Tab and choose Seed from the dropdown menu. Verify all rows are on and Headland Warning Suppression is checkmarked.

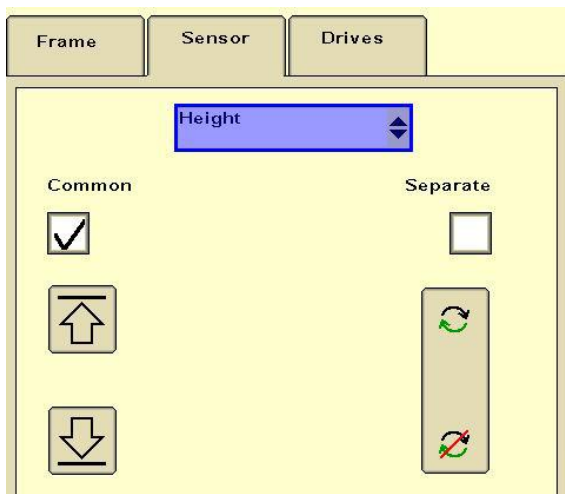


Check sensor settings:

Vacuum -
0 with system off

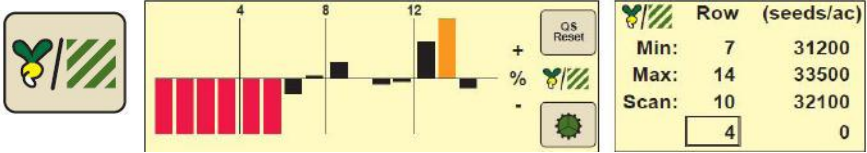
Tractor Speed-
Auto

Height-
Raise/Lower to
Calibrate



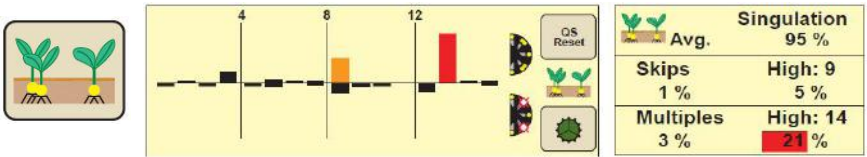
Seedstar XP Features

Seed Population



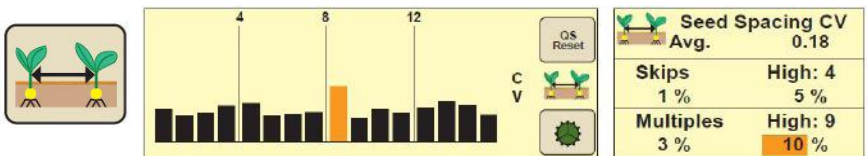
Center line is target population. Bars above line indicate rows planting above target. Bars below line indicate rows planting below target. Bars turn orange when above or below alarm setpoint. Bars turn red when row is not planting (less than 2 seeds/second).

Seed Singulation



Center line is perfect singulation (100%). Bars above line indicate increasing percentage of multiples. Bars below line indicate increasing percentage of skips. Bars turn orange when nearing alarm setpoint. Bars turn red when multiples or skip percentage is above alarm setpoint.

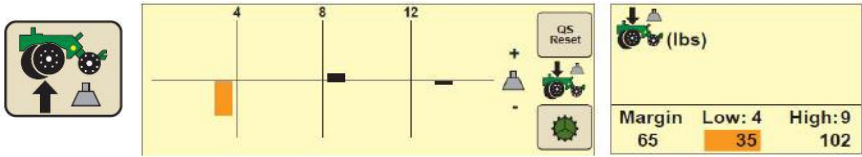
Seed Spacing Coefficient of Variation (CV)



Bottom of graph is perfect seed spacing (CV = 0). Bars increase in height as seed spacing becomes more variable. Bars turn orange when nearing alarm setpoint. Bars turn red when seed spacing CV is above alarm setpoint.

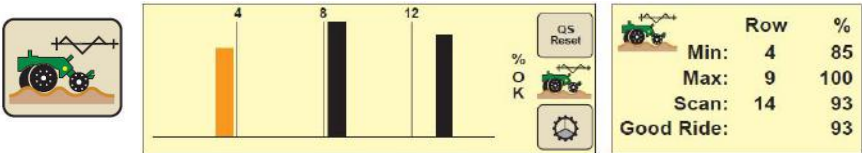
Seedstar XP Features, continued

Down Force Margin



Center line is target down force margin. Bars above line indicate rows with gauge wheel loads above target margin. Bars below line indicate rows with gauge wheel loads below target margin. Bars turn orange when nearing alarm setpoint. Bars turn red when down force margin is above alarm setpoint.

Ride Dynamics



Top of graph is optimum ride quality (100%). Bottom of graph is poorest ride quality (0%). Bars decrease in height as row unit ride quality decreases. Bars turn orange when nearing alarm setpoint. Bars turn red when ride quality is below alarm setpoint.

Alarms & Limits

Select and hold any XP button for 4 sec. to change alarm setpoints.

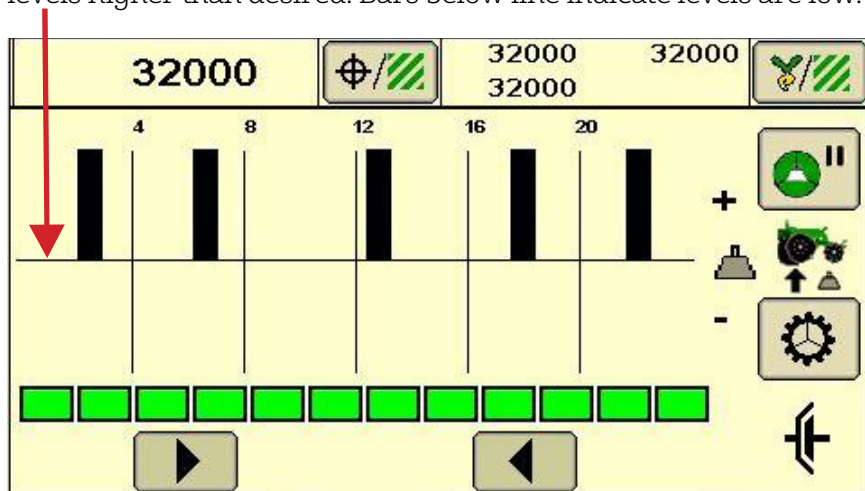
Press OK.

Singulation Alarm	<input type="text" value="92"/> %
Seed Spacing CV Alarm	<input type="text" value="0.35"/>
Ride Quality Alarm	<input type="text" value="90"/> %
Step Value	<input type="text" value="20"/> (lb)
PDF Low Alarm	<input type="text" value="20"/> (lb)
High Margin Alarm	<input type="text" value="131"/> (lb) + 75%
Target Margin	<input type="text" value="75"/> (lb)
Low Margin Alarm	<input type="text" value="37"/> (lb) - 50%

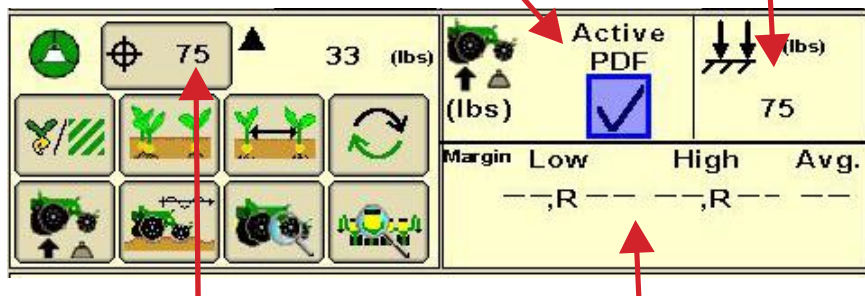
Active Downforce

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.



Checkmark to enable Active mode. Lbs of downforce in Airbag System.



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

Data from the row unit gauge wheel sensors is displayed as margin on the monitor.

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		
Pres- sure (Inches H2O)	Small Seed Nozzle Inserts	Small Seed Discharge Elbows	Pres- sure (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		
Pres- sure (Inches H2O)	Small Seed Nozzle Inserts	Small Seed Discharge Elbows	Pres- sure (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

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