

N500C Series Drills with SeedMetering

SeedStar™ Quick Reference Guide



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Run Pages

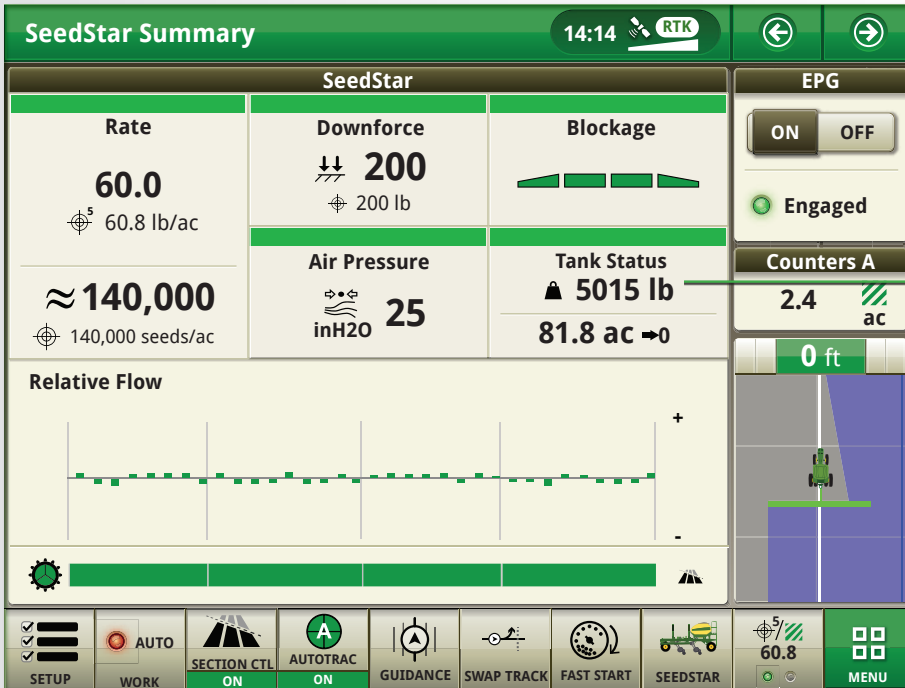
Color Indicators:

Colors are used on the tiles.

Green: The status is within a target range.

Red: The status is outside an alarm limit.

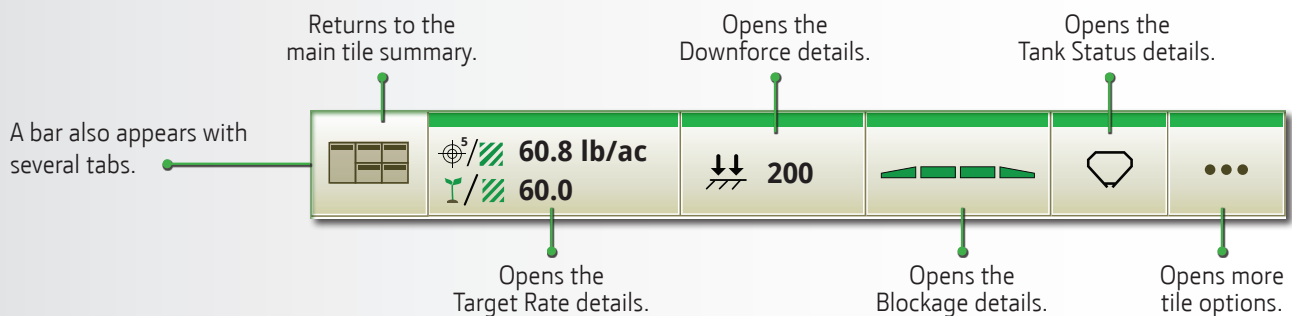
Gray: The status is inactive.



Scrolls through the active run pages. Use the Layout Manager application to configure the run pages.

When a tile is selected, the tile area changes to show details for the tile selected.

All of the modules can be moved or replaced using the Layout Manager application and saved as additional run pages.



Layout Manager—Run Pages



Layout Manager

To add run pages:

- 1) Select Menu.
 - 2) Select the Applications tab.
 - 3) Select the Layout Manager application.
 - 4) Select the Active Set tab or All Run Pages tab.
- Select a run page to edit or select Add New.

To add a module:

- 1) Select the All Run Pages tab.
 - 2) Select Add New.
 - 3) Select Add Module.
 - 4) To see the associated modules available, choose an application.
- Save the edited or new run page. Select the Active Set tab and add the new run page. To arrange the order displayed using the arrow buttons, select a page on the list.

Run Pages

Downforce: Displays the actual and target downforce. Select to open the downforce controls.

Air Pressure: Displays the plenum air pressure level.

RelativeFlow™ Blockage: Select to open the blockage details.

Tank Status: Displays the amount of seed remaining in the tank and the amount of area that can be seeded with the remaining seed based on the current rate. Select to access the Alarm Setup page.

Target Rate: Displays the average actual and target rate. Select to display the target rate selections, edit the rates, or enter new rates.

Population: Displays the average actual and target population for the entire machine based on the seed density entered.

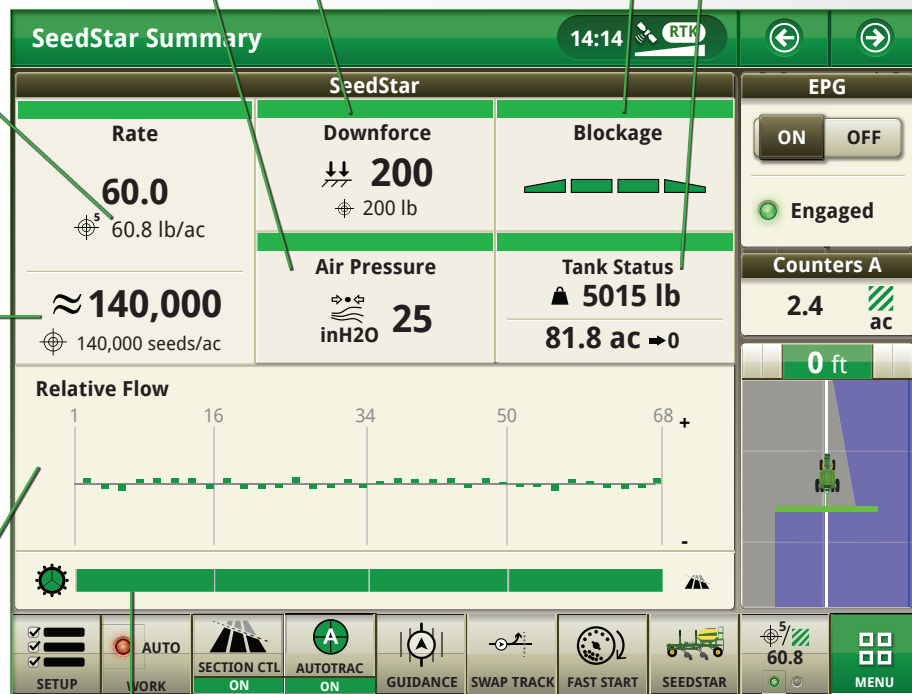
RelativeFlow™ Blockage: Displays the blockage details for each meter.

Operational status of each meter that is commanded ON or OFF either manually or by section control.

Select to engage the meter drives while stationary to prime the delivery system and avoid skips.

Add the SeedStar™ shortcut keys using the Layout Manager application.

Target rate shortcut key displays the selected target rate. When two target rates are loaded, the key toggles between the two rates. When three or more target rates are loaded, the key provides access to the Target Rate Setup page.



Layout Manager—Shortcut Bar



Layout Manager

To add shortcut keys:

- 1) Select Menu.
- 2) Select the Applications tab.
- 3) Select the Layout Manager application.
- 4) Select the Shortcut Bars tab.

- Select the shortcut bar to edit.
- Select the shortcut keys to remove or add. After selecting Add, choose an application to see the associated shortcuts available.
- Select a shortcut key to add and save the edited shortcut bar.

Run Page Modules

Electric Power Generation

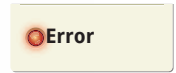
Electric Power Generation (EPG) engages and disengages power to the seed meters. This does not control the tractor PTO or hydraulics that run the power generator.



Generator is off.



The generator is on and functioning normally.



An error is detected.

Section Control

To command the section ON and OFF, enter the SeedStar™ application.

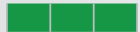


Section Control

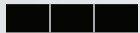
Select to access manual control of the sections.



Indicates the drive status of the seed metering system.



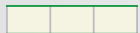
Indicates sections that are actively delivering seed.



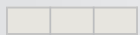
Indicates inactive sections that were manually commanded OFF with the arrow buttons.



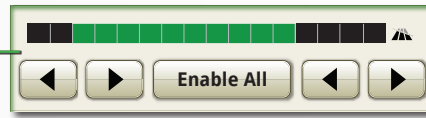
Indicates inactive sections that were automatically commanded OFF by Section Control.



Indicates that a section is commanded ON and the disk drill is ready to seed.



Indicates that a meter drive section is disabled.



Section Control

Use the buttons for manual command of the sections.



Indicates that the Section Control application is in command of the sections.



Indicates that Section Control is disabled.



Error detected. Messages appear.



The electric power generation is OFF.



The electric power generation is ON.



The ground speed requirement is met and the electric power generation is ON.



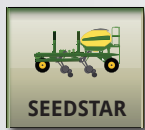
The disk drill is lowered and the electric power generation is ON.



All sections are commanded ON and at least one motor is spinning.

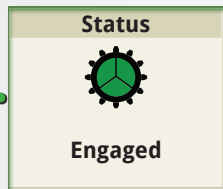


All sections are commanded OFF, but all the drive requirements are met and ready.



The colors of the drive icon change.

or



To view the requirements needed for engagement, select Status.

Run Page Modules

RelativeFlow™ Blockage

Color Indicators:

Colors are used for the sensors on the bar graphs and frame sections.

Green: Indicates an active sensor with product flowing.

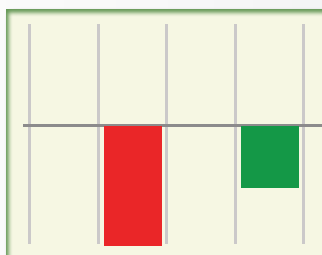
Red: Indicates a blocked secondary hose.

Yellow: Indicates an unexpected flow detection on an inactive sensor.

Gray: Indicates a missing or extra sensor detected by the blockage software.

Clear: Indicates an inactive sensor with no product flowing.

Black: Indicates a manually disabled sensor.



SeedStar

60.8 lb/ac
60.0

200

Row 4		Sensor	
Meter	1	Module	TBM 1
Roller	4	Module Input	Input 4
Rank	Front Rank	<div style="display: flex; justify-content: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 10px;">ON</div> <div style="border: 1px solid black; padding: 2px 10px;">OFF</div> </div>	

■ Flowing

■ Blocked

■ Unexpected Flow

Missing/Extra

Inactive

Disabled

Sensor Toggle Button: Enables and disables the selected sensor.

The bar graph displays the relative flow rates of each sensor. Selecting an individual sensor on the bar graph displays information for the location on the machine and the status.

SeedStar

60.8 lb/ac
60.0

200

Relative Flow Details

Relative Flow

Select to enable all sensors that are manually disabled.



NOTE: The Enable Sensors button is only shown when one or more sensors are disabled.

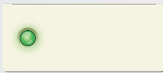
Reset Button: Select to clear the currently blocked sensors.



NOTE: The Reset button is only enabled when there is an issue and the meters are stopped.

Run Page Modules

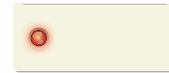
Active Downforce



Indicates that downforce is enabled.



Indicates that downforce is disabled.



Indicates that downforce is enabled but not applying.

Select to manually input a value.

Select to increase or decrease the target force of the openers.

Downforce Toggle Button:
Select to enable or disable the downforce.



Float mode is enabled.



Float mode is disabled.



Float mode is available.

NOTE: Float mode is only available when Manual SCV Control with Power Beyond is enabled.

Advanced Settings

To adjust the downforce increments and warnings, enter the Advanced Settings from the SeedStar™ application.

Down Force

Increment Adjust 20 lb Select to define the amount downforce adjusts when the plus and minus buttons are selected on the run page.

Down Force Disabled Warning Delay 20 sec Select to define the amount of time that passes before a warning is given that downforce has been disabled.

Failed to reach Set Point Timeout 20 sec Select to define the amount of time that passes before a warning is given that the downforce setting was not achieved.

Run Page Modules

Target Rate



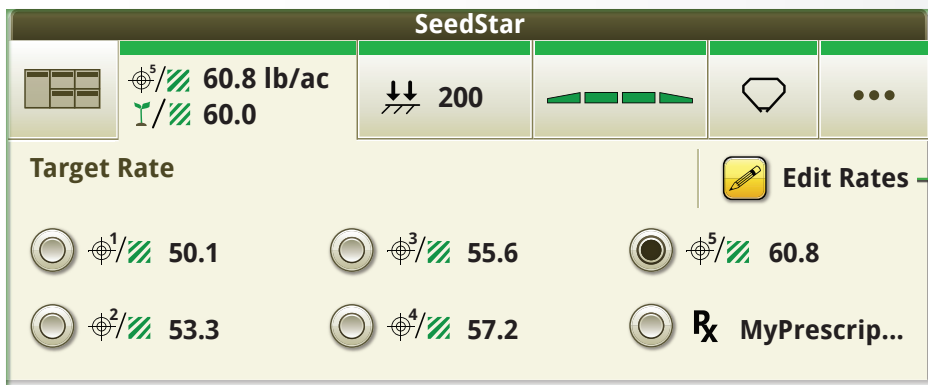
Indicates that the rate is enabled.



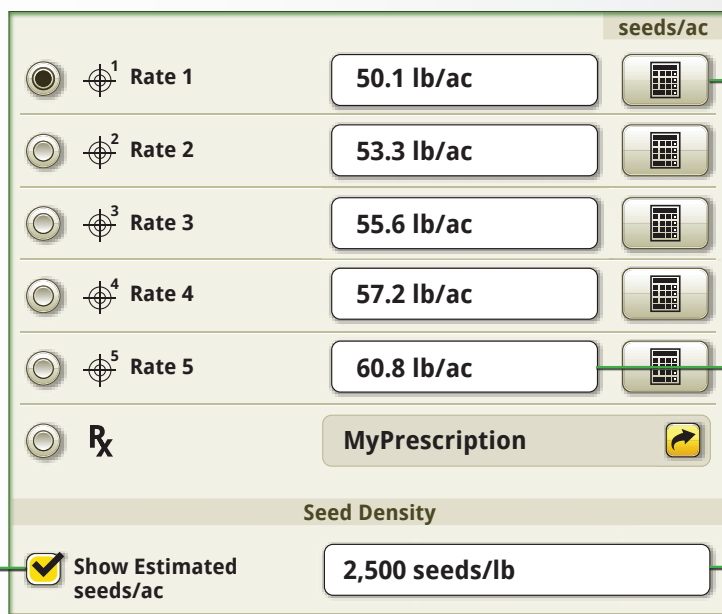
Indicates that the rate is an available selection.



Indicates that the rate is disabled because no rate is entered or the rate has been disabled.



Select to display the target application rates for the seed type selected.



Select to enable the estimated seeds per area calculator and to display the seed density for the selected rate. Allows the entry of seeds per area using the calculator. Shows the estimated seeds per area on the run screen.

Select to enter the estimated target seeds per area.

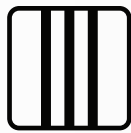
Select to change or disable a rate.

Select to enter the seed density for the variety of seed being used.

Curve Compensation: The tile shows the status of the feature. To open the feature control, select the tile.



Left Turn



Straight



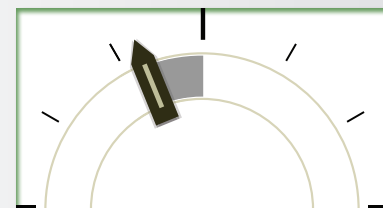
Right Turn

The status is shown next to the on-off toggle button when the feature is ON.

The bar graph displays the ground speed for each opener. The Meter Section Speed displays left/right and center speeds, tractor speed, and each meter section speed.

The meter motors adjust to the ground speed for an accurate population at every row.

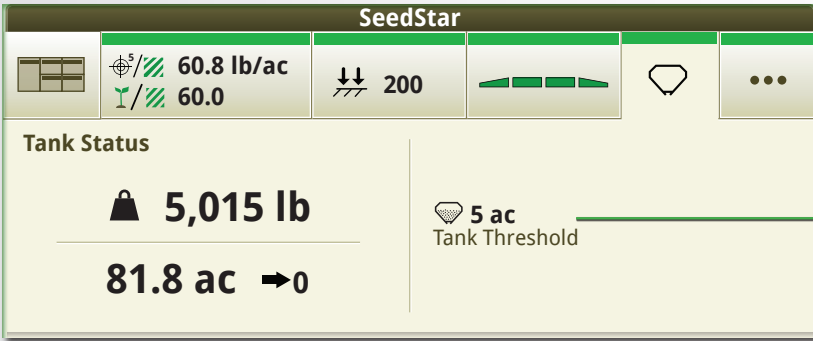
The meter speeds automatically adjust to maintain an accurate seeding rate for each section.



The indicator on the gauge shows the current degree of turn.

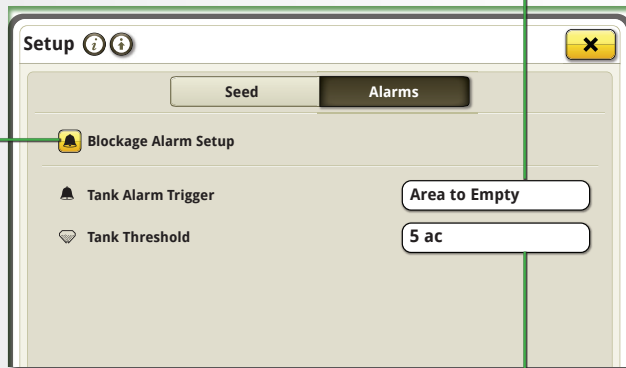
Run Page Modules

Tank Status



Select to access the tank and blockage alarm setup.

Select to configure the blockage alarm.



Tank Alarm Trigger: Select to define the type of trigger for the low tank alarm. Select from the following:

- **Area to Empty:** Select to define a remaining coverage area to trigger an alarm when the tank product reaches that level.
- **Tank Scale:** Select to define a remaining tank weight to trigger an alarm when the tank product reaches that level (if equipped).

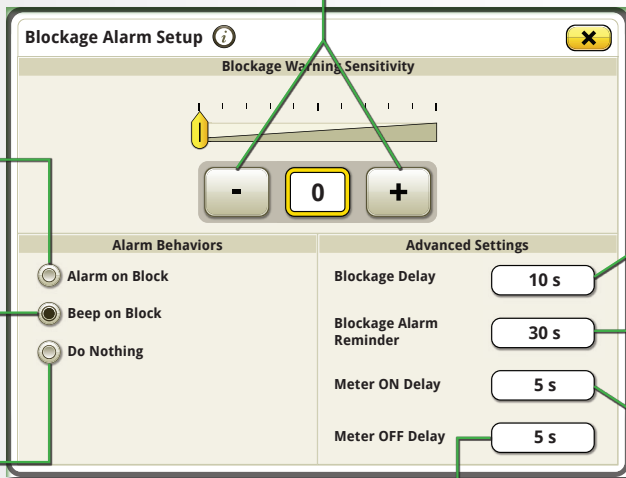
Tank Threshold: Select to define the level at which the tank alarm is triggered.

Select the plus and minus buttons to adjust the sensitivity level.

Select to have a message appear on the screen and an audible alert made when a blockage is detected.

Select to have an audible alert made when a blockage is detected.

Select to have no notification given when a blockage is detected.



Select to define the amount of time a blockage is sensed before an alarm sounds.

Select to define the amount of time the alarm remains silenced by the operator.

Select to define the amount of time that the software waits to detect product at the blockage sensor after meter activation.

Select to define the amount of time that the software waits for detected product to clear after the meters are deactivated.

NOTE: The Meter ON and OFF Delay times need to be greater than the mechanical delay (ON/OFF Time) to prevent false alarms.

