

# SpreadStar™ Operating Instructions



**JOHN DEERE**

## **INSTALLATION INSTRUCTIONS SpreadStar Operating Instructions**

**N301978 14MAR07 (ENGLISH)**

**4920 and 4930 Self-Propelled Sprayers**

**John Deere Des Moines Works  
N301978 (14MAR07)**

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## SpreadStar™ System

The following section provides specifications and operating parameters for the SpreadStar system.

The SpreadStar system is an electronic module with a general purpose display and general purpose key pad that can be used to display chassis or dry system information. Its primary purpose is to provide a display head for various machine sensors. It has the capability to simultaneously display information from multiple sensors.

*NOTE: When necessary to reset SpreadStar system, turn engine key OFF, then ON again.*

*SpreadStar is a trademark of Deere & Company*

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## GreenStar™ Display and Keypad

**IMPORTANT:** Display screens illustrated on the following pages are for reference only. Your actual screens may appear differently due to connection of optional devices, software version in use, or customization of screens.

The GreenStar display is the most visible component of the SpreadStar System. The display is a common component on many John Deere products. This display can be removed from the Sprayer and used in other products if desired, provided the CAN BUS is compatible.

The GreenStar Display is a multipurpose display with easy-to-use, menu-driven commands. It has a display area with several information display cells; seven alpha keys A—G located to the right of the display cells; a numeric keypad; a PAGE key and three mode select keys (SETUP, INFO and RUN).

The top round switch adjusts LCD contrast. When the switch is pressed, the contrast will slowly change between minimum and maximum contrast. When the desired contrast is obtained, release the switch.

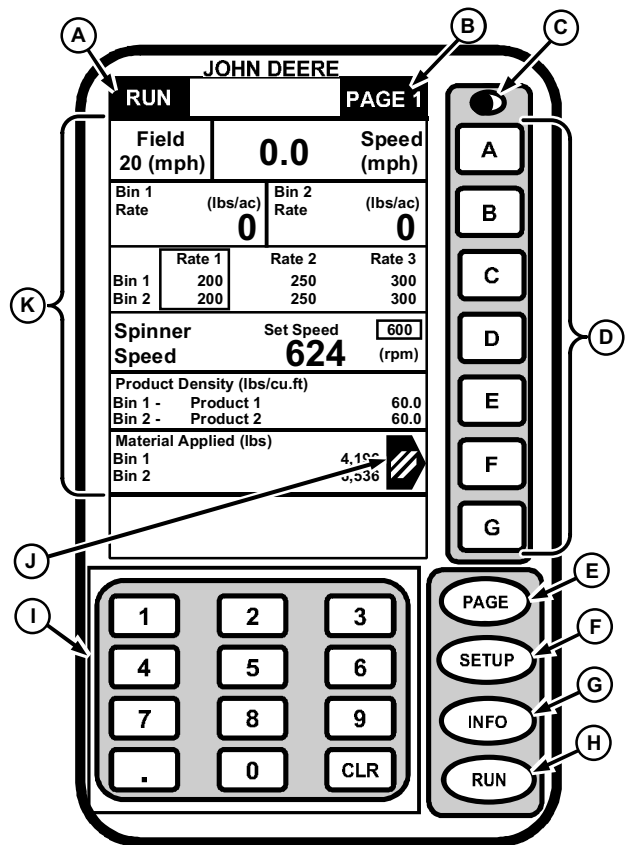
The clear switch (“CLR”) allows a numeric entry in progress to be cleared and started again.

An example of each display screen is shown on the following pages. Each screen contains many cells and each cell displays a specific piece of information.

Each information display cell is either active or inactive. Active cells display information that can be changed and are highlighted by a black arrow. Inactive cells just display information and cannot be changed.

Pressing the alpha key to the right of an active cell results in one of the following:

- Data in cell may be changed using numeric key pad.
- New menu will appear.
- Process will be started.
- New page will appear.



- A—Mode Identification: SETUP, INFO or RUN MODE
- B—Mode Page Sequence
- C—Contrast Button
- D—Alpha Key Pad
- E—Advance Screen Page
- F—SETUP Mode Button
- G—INFO Mode Button
- H—RUN Mode Button
- I—Numeric Key Pad
- J—Active Cell
- K—Display Area

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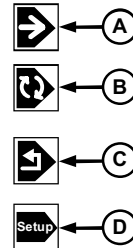
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- The selected item will be changed.

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When operating the GreenStar display, several icons are displayed in the cells. Each icon indicates the type of function that can be performed in that cell.

- **A—GO TO Icon.** Press key to activate choice.
- **B—TOGGLE Icon.** Press key to toggle between selections in a cell.
- **C—RETURN Icon.** Press letter button to return to previous screen.
- **D—** Black arrow indicates alpha key is active.



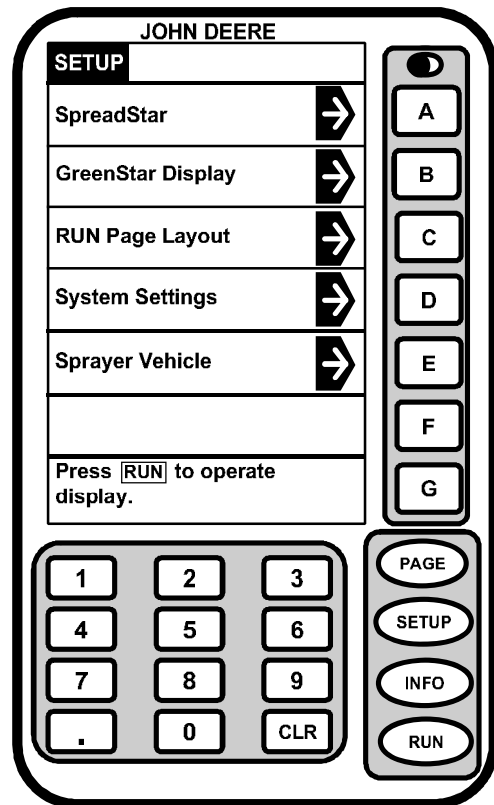
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## SETUP Screens

SETUP screens allow the operator to change operating information. When "SETUP" button has been pushed, a menu will appear. Press letter button next to menu item that requires change or SETUP.

If there are more selections than screen area available, a second page is created. Press "PAGE" button to view additional selections.



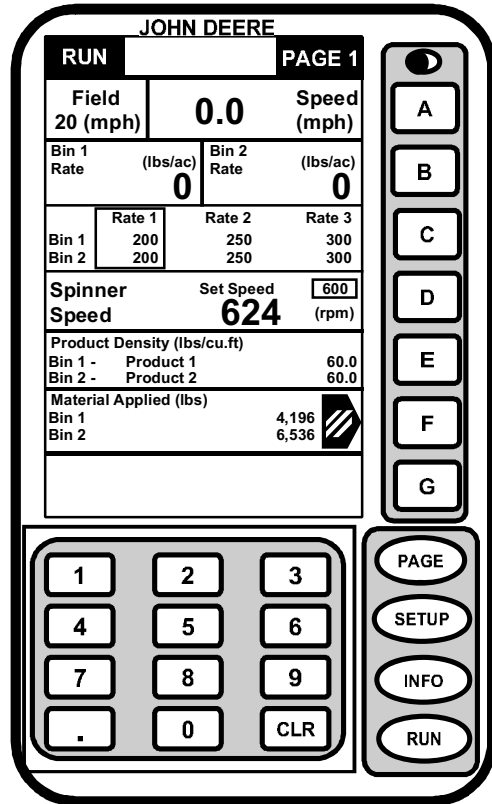
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### RUN Screen

RUN screens are the basic operating screens. RUN screens are accessed by pressing the "RUN" button. Pressing "PAGE" button toggles the display between two available RUN pages.

The RUN - PAGE screen can be customized by the operator to display various tasks and operation.

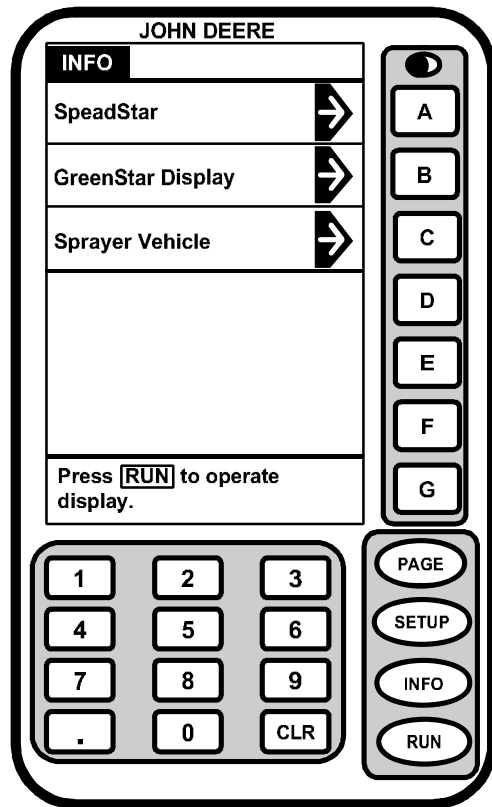


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### INFO Screen

The INFO screen allows the operator to view general information screens. When the "INFO" button has been pushed a menu will appear. Press letter button next to menu item that you would like to view information on.



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## Run—Page 1 of SpreadStar System

Page 1 of the RUN menu displays the following if default run page display screens are used:

**Line A**—Speed: Target speed selected and speed the machine is traveling. Radar symbol appears when radar (if equipped) is operating. Radar will operate from approximately 3 to 20 mph. Radar is not available below 2 mph and in transport mode.

**Line B**—Rate: Application rate that the dry box is applying in lbs/ac. Rate will be shown for both bins if equipped with dual bin spreader.

**Line C**—Three Targeted Rates: Application rates being targeted, reprogrammable by operator. Rate will be shown for both bins if equipped with dual bin spreader.

(The Rate Select knob is located on console. To select a rate, turn to Rate “1”, “2”, or “3”.

OR

Manual Belt Speed rpm: Belt speed programmed by operator independent of vehicle speed.

AUX setting used if equipped with map based spreading.

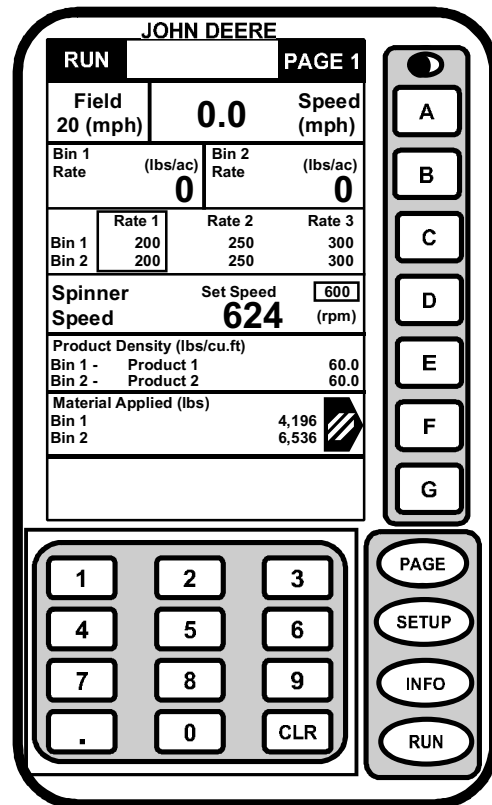
**Line D**—Spinner Speed: shown in rpm.

Number in box represents targeted spinner speed. The displayed number is actual (measured) spinner speed.

**Line E**—Product Density: The pounds per cubic foot of product being applied. Product Density will be shown for both bins if equipped with dual bin spreader.

**Line F**—Material Applied: Total applied on current job since last reset. Material Applied will be shown for both bins if equipped with dual bin spreader. Pressing “F” will reset the amounts for both bins, if both bins are enabled.

**Line G**—Caution statements displayed in this location. These caution statements are for the chassis and dry box sensors.



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## Run—Page 2 of SpreadStar System

Press “RUN” to bring up RUN menu.

Press “PAGE” to bring up page 2. Page 2 displays the following if default run page display screens are used:

**Line A**—Speed: Target speed selected and speed the sprayer is traveling. Radar symbol appears when radar (if equipped) is operating.

**Line B**—Engine speed in RPM.

**Line C**—Engine Coolant Temperature Gauge: Temperature of coolant.

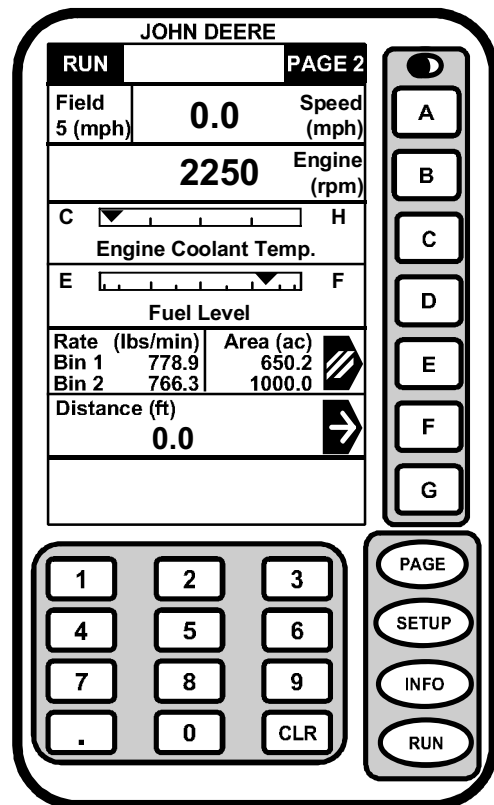
**Line D**—Fuel Tank Level: Amount of fuel left in tank.

**Line E**—Rate: Amount applied in (lbs/min).

Area: Area spread since gauge was reset.

**Line F**—Distance: Distance sprayer has traveled. Distance counter will automatically switch over to kilometers at 1000 m or miles at 5280 ft.

**Line G**—Caution statement appears here also.



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## Setup SpreadStar

The Setup SpreadStar menu allows the operator to program information that is needed for the dry box, such as application rates, product density, and calibration values. When SpreadStar is selected from SETUP menu its pages show the word “Spreader” in the heading. Two pages of the setup menu exist for single bin, three pages for dual bin.

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## Setup Spreader—Page 1

### SETUP SPREADER—Page 1

On page 1 of the Setup mode, the following are displayed and can be changed:

**Product**—Allows toggling between 6 programmable products.

**Setup Product**—Takes operator to separate pages where product information is programmed into SpreadStar.

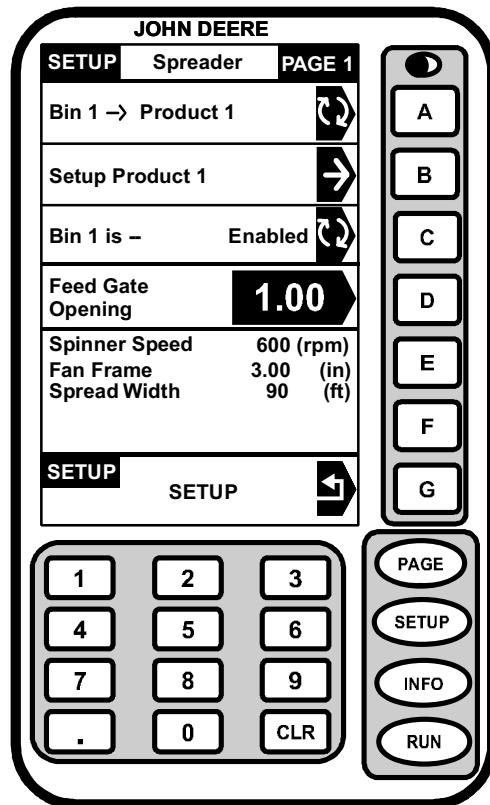
**Bin 1 is - Enabled / Disabled**—Allows operator enable or disable Bin 1 if equipped with dual bin spreader.

**Feed Gate Opening**—Displays the values programmed into SpreadStar for the selected product.

**Spinner Speed**—Displays the values programmed into SpreadStar for the selected product.

**Fan Frame**—Displays the values programmed into SpreadStar for the selected product.

**Spread Width**—Displays the values programmed into SpreadStar for the selected product.



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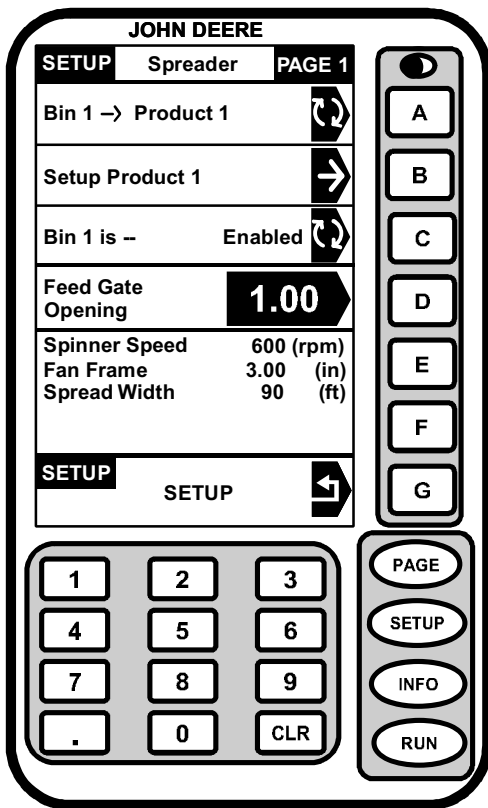
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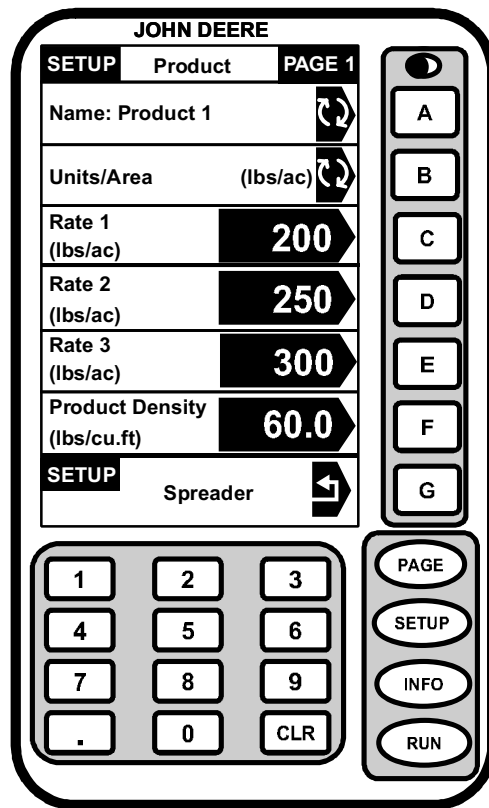
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### Setup Product Page 1



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To access Setup Product Page 1

1. Press "SETUP" to display SETUP menu.
2. Press letter button next to "SpreadStar".
3. Press letter button next to Product 1 to toggle through selections.
4. Press letter button next to Setup Product (with chosen product number). Setup Product Page 1 will appear.

On Setup Product Page 1 the following are displayed and can be changed

**Name:**—Allows operator to toggle between products that are programmed into SpreadStar.

**Units/Area:**—Allows operator to toggle between lbs/acre and tons/acre as the unit of measure for the product.

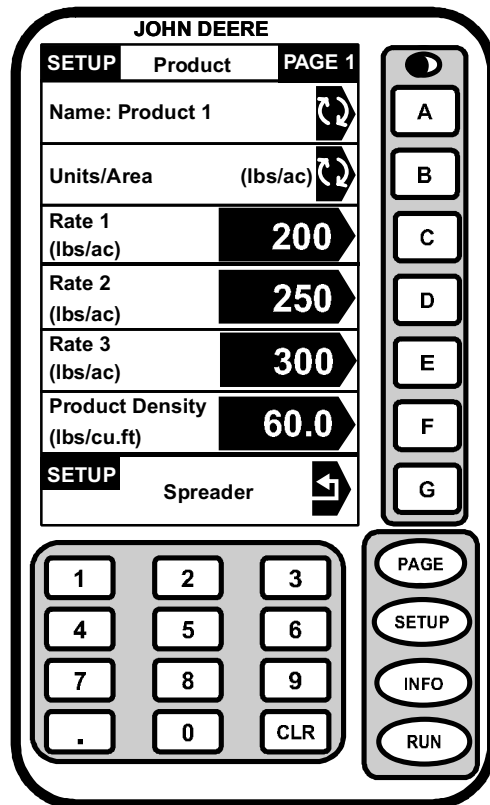
**Application Rates 1, 2, or 3**—Where the target application rates (in lbs/ac or tons/ac) are programmed into SpreadStar.

**Product Density**—Where the product density of materials (in lbs/cu.ft) to be applied is programmed in to SpreadStar.

### Setting Product Density

1. Press "SETUP" to display SETUP menu.
2. Press letter button next to "SpreadStar".
3. Press letter button next to Product 1 to toggle through selections.
4. Press letter button next to Setup Product (with chosen product number). Setup Product Page 1 will appear.
5. Press letter button next to "Product Density (lbs/cu.ft)".
6. Enter the product density of material to be applied. This value is normally provided on the ticket received with fertilizer. Press letter button next to "Product Density (lbs/cu.ft)" to save this value.

For example, to set Product Density at 60 lbs/cu.ft press 6, 0, decimal point, 0 and then "F".



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