

SpreadStar™ Operating Instructions



JOHN DEERE

INSTALLATION INSTRUCTIONS SpreadStar Operating Instructions

N315147 17MAR08 (ENGLISH)

4930 (Serial No. N04930X004001-)

**John Deere Des Moines Works
N315147 (17MAR08)**

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Moline, Illinois
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A John Deere ILLUSTRATION® Manual
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Display Theory of Operation

IMPORTANT: It is important to follow proper use guidelines with the GSD2600 touch screen. Under no circumstance should you contact the touch screen with an object harder or sharper than a fingertip (pen, pencil point, or any metal objects). Heavy pressure can also damage underlying components and void the touch screen warranty. Light amounts of pressure, if exerted continuously, can degrade touch screen reliability. The GSD2600 should be stored near room temperature during the off season with no items contacting the touchscreen surface.

The 2600 GreenStar™ display is primarily used as an operator interface for SpreadStar applications. The display's primary navigational point is the touchscreen which allows the operator to input information by touching the screen. Its primary purpose is to display chassis, wet or dry system information. It has the

capability to simultaneously display information from multiple sensors.

SpreadStar can be used in conjunction with other Ag Management Solution products such as GreenStar Guidance Parallel Tracking and AutoTrac Assisted Steering Systems and Field Doc. Setup and operation information for these programs can be found in their respective operator manuals.

The 2600 display has an integrated performance monitor that can be used to record area and other data based on implement width and ground speed.

From time to time, John Deere AMS publishes software updates to the GS2 system over the internet at www.StellarSupport.com. Each display also comes with a GS2 Live Update CD. Live Update can be installed on an internet connected PC and alert the user when updates to the display are available. It will then walk the user through the downloading process. The download can be stored on a data card, and inserted into the display to complete the update.

Front of Display

IMPORTANT: Do not remove 12 volt power from display until the LED light is black. Prematurely removing power (green or orange light status) may cause loss of data and/or the display to lose functionality. It may take up to 20 seconds after removing key power for the LED light to completely go off. The data card should not be removed during this period also.

Display (A) is located in cab and allows the operator to view instantaneous information from seat while operating the vehicle.

LED (B) will indicate power mode of display:

Cold boot progress bar is green with a yellow outline. LED is orange for a split second then solid green.

Cold boot-up occurs when the GS2 display has been powered down for over 24 hours and takes 60-80 seconds to power up, regardless of switched or unswitched power condition.

Warm boot progress bar is yellow with a green outline. LED has flash of red, flash of orange, then solid green.

Warm boot-up occurs when the GS2 display has been operating in the last 24 hours and has NOT lost unswitched power anytime during the last 6 hours and takes 20-30 seconds to power up.

Shutting Down or Standby mode LED is orange.

IMPORTANT: If LED is **FLASHING ORANGE** and the screen is blank, an out of range temperature condition is detected and the unit should be turned off to prevent damage to the display.

Operating Temperature
-30° to 70° C (-22° to 158° F)
Storage Temperature
-40° to 85° C (-40° to 185° F)



Display

A—Display
B—LED (Power Light)

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If LED is RED, the unit is not operational and should be turned off. The display has encountered an error or issue and is working to recover.

IMPORTANT: Always clean screen on 2600 display with power off. Cleaning screen while operating could result in unintended button presses.

To clean display, power down and wipe screen with a soft cloth sprayed with a non-ammonia based cleaner such as John Deere glass or multipurpose cleaner.

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Screen Protector

The use of a screen protector is recommended to prevent wear to the touch screen surface. Screen protector kits, made specifically for GS2 displays, can be purchase through your local John Deere dealer.

NOTE: The screen protector is for use on GSD2600 displays only.



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Back of Display

Backside of Display contains:

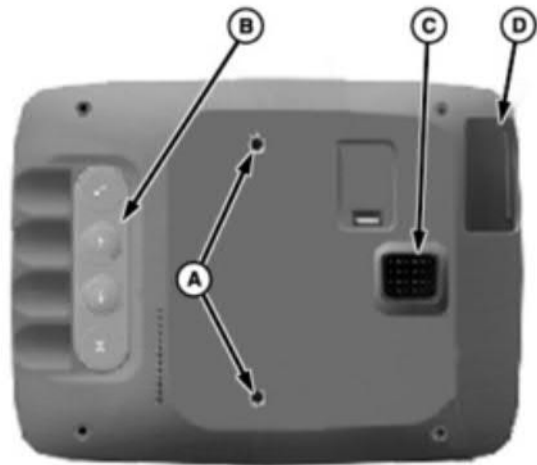
Display Mounting Holes (A)—attach to bracket on machine

Secondary Navigational point (B)—provides backup navigation with display

Data Card Door/Slot (C)—houses data card used for data collection and saving selected display and implement settings

Display Connector (D)—connects vehicle wiring harness plugs with display for system power and communication

NOTE: Backside of display will all have label with display model and serial number on it.



Backside of Display

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Display Secondary Navigation

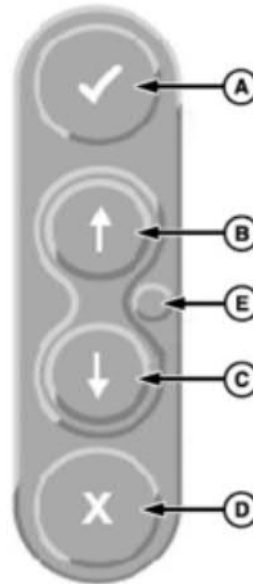
Secondary display controls consist of five buttons located on backside of display. They provide backup navigation in the event that the primary display controls are not communicating with display.

ENTER button (A) and CANCEL button (D) operate the same as they do on the primary display controls.

Up Arrow (B) and Down Arrow (C) are used to tab through selections on the display.

DISPLAY RESET button (E) resets display without cycling power on vehicle. Hold for 3 seconds to reboot.

- A—Enter
- B—Up Arrow
- C—Down Arrow
- D—Cancel
- E—Display Reset



Display Secondary Navigation

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Selecting a Desired Input Field with Display Control—Optional

NOTE: The 2600 GreenStar Display's primary navigational point is the touchscreen which allows the operator to input information by touching the screen.

THUMB WHEEL (A)— move highlight or focus.

ENTER (B)—allows operator to select input fields, buttons, or softkeys.

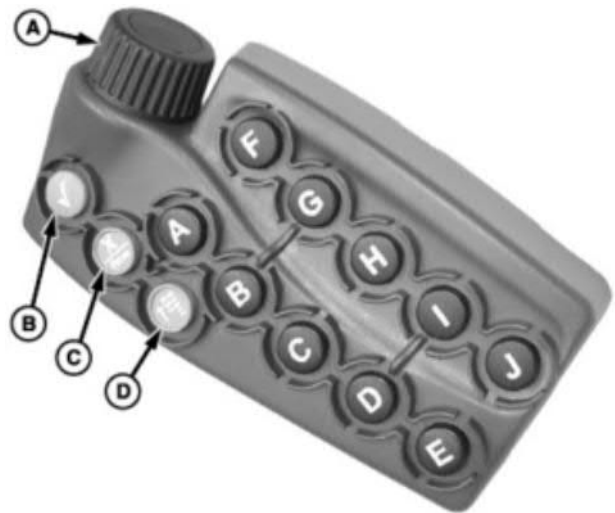
CANCEL (C)—cancels operator's selection or exits from selection process.

MENU (D)—displays menu list.

Short-Cut Buttons A-J—allow operator to activate an associated input field, button, or softkey with the letter corresponding to the short-cut button pressed.

NOTE: Only input fields or softkeys will show a Highlight/focus around it.

To activate and select an input field, move highlight/focus with thumb wheel to desired function and press ENTER button.



Display Control

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Data Card

IMPORTANT: Do not remove 12 volt power from display until the LED light is black. Prematurely removing power (green or orange light status) may cause loss of data and/or the display to lose functionality. It may take up to 20 seconds after removing key power for the LED light to completely go black. The data card should not be removed during this period also.

Data card must be in display during operation or system functionality will deteriorate.

Do not remove data card while display is reprogramming. Doing so can damage display and put software in an irrecoverable state.

Any time machine configuration changes are made, the power must be cycled on the display to allow changes to take place.

After configuring machine and implement setup, make sure key power is turned off and LED light is able to go to black before operating in the field. This will allow all setup information to be saved to the data card.

Steps for Data Card Insertion

1. Open the card slot door by pressing forward on the door latch tab, and continue to press forward until the door springs open.
2. Wait for message stating that Data Card can be ejected.
3. The side of the data card that has the ridge along the bottom edge should be facing the operator as it is inserted. It cannot be inserted with the opposite side facing the operator.



Data Card in Display

A—Data Card

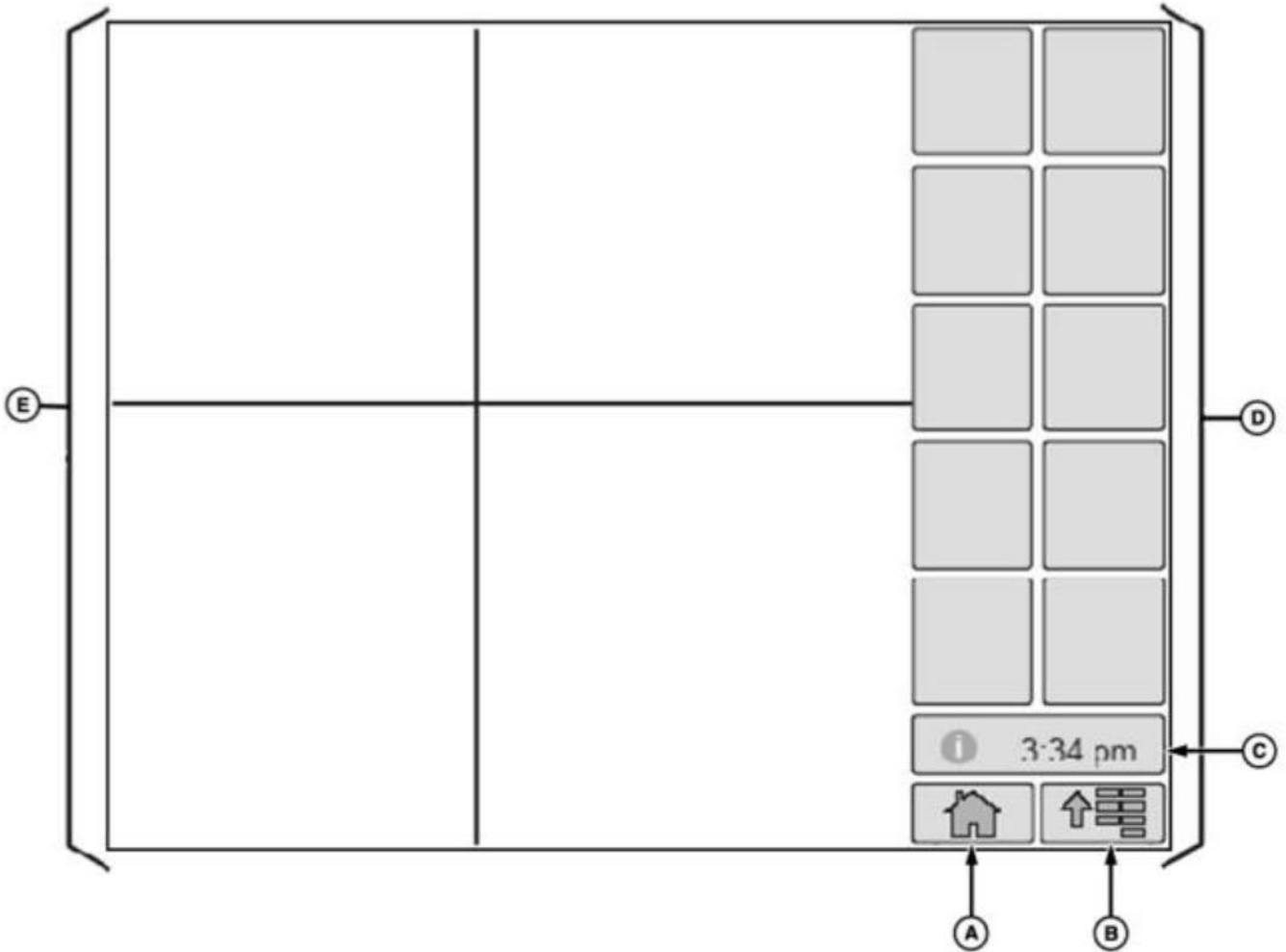
4. Press the data card into the slot until it clicks into place and pushes the eject button all the way out. It has a similar feel to inserting a PCMCIA card into a Mobile Processor.
5. Close the card slot door.

Steps for Data Card Removal

1. Open the card slot door.
2. Press the eject button located directly below the card slot inside the card slot door. This is very similar to removing a PCMCIA card from a Mobile Processor.
3. The data card will pop out enough to grab it with your fingers and remove it from the card slot.

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Screen Layout



Screen Layout

A—Home
B—Menu

C—Message Center

D—softkeys

E—Application Info Area

NOTE: Display screen illustrated on following pages are provided for reference only. Actual screens may appear differently due to connection of optional devices and/or software versions.

Home (A), Menu (B) and Message Center (C) selections will be on every screen.

- Home selection—allows operator to view Home Page.

- Menu selection—allows operator to view a list of available applications.
- Message Center selection—allows operator to view cautions, warning messages, diagnostic information. (See SETUP MESSAGE CENTER in Display Message Center section.)

Selecting one of the softkeys (D) will cause a new page to appear or a process to be started.



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Power Up

IMPORTANT: Do not remove 12 volt power from display until the LED light is black. Prematurely removing power (green or orange light status) may cause loss of data and/or the display to lose functionality. It may take up to 20 seconds after removing key power for the LED light to completely go black. The data card should not be removed during this period also.

IMPORTANT: When setting up the display with vehicle key in the accessory position (power on, engine off), turn key to OFF position for 20 seconds BEFORE starting the vehicle. This will ensure the setup data is saved to the data card prior to operating.

If the vehicle is running during setup and programming, turn the vehicle off with key in the OFF position and wait 30 seconds before restarting. This ensures that all data is saved to the data card.

DO NOT turn the key to the start position directly from the accessory position. The reduction in voltage during the starting phase could result in a loss of all setup data.

IMPORTANT: If changes are made while machine is in auxiliary mode, turn key off and wait for display's power light to turn off before starting the ignition. This allows display to shut down and save data.

IMPORTANT: Data card must be in display during operation or system functionality will deteriorate.

During power up of display, a start-up screen will show a status bar that indicates display is powering up. Once the display has powered up, if no implement is connected, a default performance monitor screen will be shown. If an ISO implement is connected, that implement's information will be shown in application info area along with 10 softkeys.

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Input Fields

There are a variety of input fields and buttons that allow the operator to navigate through the screens on the display and input values:

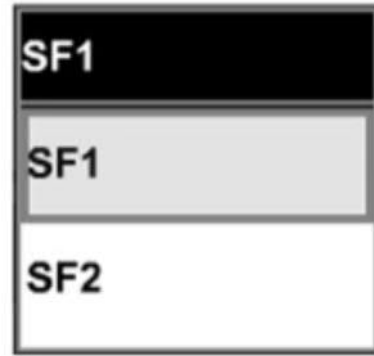
- Drop-Down Box
- Input Box
- Check Box
- Button

2600 Display—fields are selected by touching screen. Key pad will appear to input alpha/numeric data.

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Drop-Down Box

A drop-down box has a border with a numeric or text value and up/down arrows on the right side that allow operator to select a prepopulated item pre-populated in a list.

To open, touch drop-down box and list will appear. Move highlight focus through list to desired input value

by touching Up and Down arrows. Touching new selection to enter value.

To close the drop-down box without making a new selection, press original value from list. List will close and original value will remain.

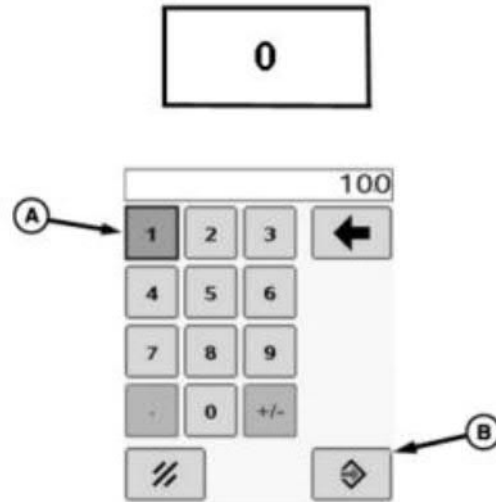
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Input Box

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An Input box has a border with a numeric value or text. This allows the operator to select and enter new values or text. touch the input box to be changed and a numeric key pad (A) will appear, allowing selection of each digit. Press Enter button (B) to accept new value.

- A—Numeric Key Pad
- B—Enter Button



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