

Software Update 2009-2

Release Notes

Important Notes:

- To ensure proper functionality, it is suggested that customers use the most current version of display software and Apex desktop software (version 2.3.0.141). Reference software versions at the end of this document.
- **Data NOT available on GS2 2600 Display** - Any "Totals" information created in *Software Update 2009-1* for any operation will not be viewable after you update your GS2 2600 to *Software Update 2009-2*, although the data will be viewable when it is unloaded into Apex desktop software.
http://stellarsupport.deere.com/en_US/support/OperatorManual-UserGuide.html
- Before updating the GS2 1800 Display, you must first install software version 2.0.554, which corrects an issue that could cause the display to crash when the internal memory fills up. To download the installation file for version 2.0.554 and for special reprogramming instructions, visit the following link.
http://stellarsupport.deere.com/en_US/support/greenStarSystem.html.
- StellarSupport posts the latest versions of operator manuals, and includes additional information concerning changes in Software Update 2009-2. Visit www.stellarsupport.com to review the current manuals.

Customer Contact Center Information

E-mail: GreenStar@JohnDeere.com

North America: 1-888-GRN-STAR

Mexico: 1-866-582-4068

Argentina: 0800-444-9126

Brasil: 0800-891-4031

Australia: 0011-800-0000-3333

New Zealand: 00-800-0000-3333

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Release Notice

These are the Release Notes for the July 2009 release of GreenStar™ 2 Display 2600 software version 2.4.1156, GreenStar 2 Display 1800 software version 2.0.705, and the Original GreenStar display software version 1.97B.



Software Update 2009-2

Release Notes Table of Contents

Summary

- Resolved Issues (pg.3)
- Known Issues (pg. 3-4)
- Items of Interest (pg.4)

Product Specific Information

- GS2 2600
 - Display (pg.5)
 - Documentation (pg.5-8)
 - Guidance (pg.8-9)
- GS2 1800
 - Display (pg.9)
 - Guidance (pg.9-10)
- StarFire Receivers (pg.9-10)
- GreenStar Rate Controller & Swath Control Pro (pg.10)
- Software Versions (pg.11)

Software Update 2009-2

Summary

Resolved Issues -

GS2 2600 - Documentation

- A carrier needs to be defined before entering tank mix ingredients
- The maximum Load Number has changed from 99 to 9999
- New Load functionality is available for Harvest Doc
- Cotton “Lint” and “Seed Throughput”, on home pages, are more easily recognized
- The “Implement Recording Not Allowed” message contains more detail

GS2 2600 - Guidance

- AB Curves line extensions will be parallel and extend a distance of 300 feet

GS2 1800 - Guidance

- AB Curves lines no longer shift after display shutdown or field changes
- Left-Hand Region guidance page does not disappears when the implement is raised

Known Issues -

GS2 2600 - Display

- “Checksum Failed 44” warning causes the display to continuously reboot after reprogram

GS2 2600 - Documentation

- Implement width changes made on a combine CommandCenter do not update on the GS2
- Two prescription alerts are not available for SeedStar 2 Planters
- Inconsistent Totals between Harvest Monitor and GS2 area calculation
- SCV recording operation is inconsistent between CCD and CAN tractors
- The foreground map name may be lost with dual variety configuration
- Maps disappear after changing implement section configuration
- The label “Crop Season” and “Carrier” do not display correctly in French
- The prescription rate displays zero when recording is off

GS2 2600 - Guidance

- Updated AutoTrac RowSense compatibility information for 50 and 60 Series Combines
- AutoTrac RowSense creates guidance line shifts

GS2 1800

- StarFire iTC compatible software is 3.40N

StarFire Receivers

- StarFire iTC RTK Rover Access List (RAL) entries 197-200 are not displayed

GreenStar 2 Rate Controller & Swath Control Pro

- The ability to select the “Front Rigid 3pt” connection type is not possible when setting up sprayers with front-mounted booms
- GreenStar 2 Rate Controller product application information may not display correctly under certain configurations
- The status bar may appear “inactive” when reprogramming a GS2 Rate Controller

Items of Interest -

GS2 2600

- New GreenStar Software License Agreement

GS2 2600 - Documentation

- The “Enable Monitoring without GPS” feature has changed
- “Overlap Control Disabled” warning message turns off Overlap Control

GS2 2600 - Guidance

- New Installation Instructions for iGuide mast
- AutoTrac RowSense Universal operating suggestions using Adaptive Curves
- AutoTrac RowSense Universal performance factors

GS2 1800

- New Setup Compatibility with Apex Farm Management Software
- Combine Operating Instructions
- New Software Update Directions
- Menu and Home Page buttons have been added

GS2 1800 - Guidance

- Guidance soft keys have been rearranged

StarFire Receivers

- Software update instructions for multiple receivers

GreenStar 2 Rate Controller & Swath Control Pro

- GS2 Rate Controller compatibility note in Operator Manual

Software Update 2009-2

Product Specific Information

Display - GS2 2600



Known Issues

GS2 2600 Continuously Reboots following reprogramming - If a 'Checksum Failed 44' warning appears while reprogramming to software version 2.4.1156, the display may continuously reboot the next time it is turned on. To verify this problem has occurred after a 'Checksum Failed 44' warning appears follow these steps: 1) Turn off the vehicle and allow the display to shutdown, 2) Remove the plug from the back of the display and then plug it in again, and 3) Start the vehicle. If the display does not boot up past the John Deere screen with the progress bar, **contact your John Deere dealer** and reference DTAC solution 83114.

Items of Interest

GreenStar Software License Agreement

After software reprogramming, when you select the GreenStar 2 Pro softkey, a license agreement will appear. It is advised to fully read the agreement if you are the purchaser of the display, then select the box next to, "I am the purchaser of this display." Once completed, either *Accept* or *Decline* the terms of the agreement. GreenStar 2 Pro functions will not be available until the agreement is accepted.

Documentation - GS2 2600

Resolved Issues

Tank Mix ingredients can be entered before a carrier is defined

Previous Software: An operator can enter tank mix ingredients without defining a carrier. The result of this is that the a) operator will be unable to record documentation and b) ingredient buttons show a "0.00" rate even though a rate other than zero is entered for the ingredient. There is no indication to the operator that a carrier is required.

Software Update 2009-2: A carrier must be first defined before any other ingredients may be entered.

Maximum Load Number is 99

Previous Software: The maximum number of loads for each given load type (Field, Truck, and Tank) is 99. Depending upon operator use, this may have been too few.

Software Update 2009-2: The maximum load number for any given load name is 9999.

Load Totals are reset to zero, but Load Number remains the same

Previous Software: With Load Type set to "Field", selecting a new field doesn't increase the load number, while the totals values are reset to "0".

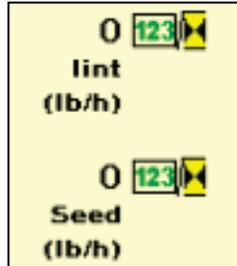
Software Update 2009-2: Load totals will continue to accumulate until the operator presses the Save Load button. When the load is saved, the Load Number automatically increases by one.

Review the harvest documentation Quick Reference Guide on StellarSupport.
http://stellarsupport.deere.com/en_US/support/QuickReferenceGuides.html

Cotton Lint and Seed Throughput on home pages

Previous Software: Lint and Seed Throughput information is difficult to distinguish on GS2 home pages.

Software Update 2009-2: Descriptive text (Lint and Seed) are now included to differentiate the information.



“Implement Recording not allowed” message needs to be more specific

Previous Software: If task operation information (harvest, product application, etc.) is not complete an “implement recording not allowed” message will appear. The message provides little information as to what is incomplete or needs to be entered.

Software Update 2009-2: A message, similar to the one below, will inform the operator if the task operation information is not complete.



Known Issues

Implement width changes made on CommandCenter not on GS2 - On a 70 Series Combine with a row crop head, if the number of rows is changed via the CommandCenter those changes may not be reflected or updated on the “Header” tab of the GS2 2600. It is advised to warm boot the GS2 2600 display for the changes to populate correctly.

Prescription messages are not available with ISO implements - Two prescription alerts, “Controller not set to use prescriptions” and “No prescription available” is not seen when connected to an ISO implement. An example of an ISO implement would be a SeedStar 2.planter. Make sure the ISO implement controller is setup correctly for variable rate operations and a prescription has been saved to the card.

Inconsistent Totals between Harvest Monitor and GS2 area calculation - With the introduction of Overlap Control, it is now possible to have a cut width of zero. A zero cut width, all sections off on the GS2, will cause documentation recording to turn off, but not on Harvest Monitor. In previously harvested areas, such as headlands, Harvest Monitor will continue to accumulate totals where the GS2 will not. The GS2 with Overlap Control "On" will be more accurate, although this will lead to a greater difference between Harvest Monitor and GS2 totals. If you wish to use totals from Harvest Monitor instead of the GS2, it is advised to turn off Overlap Control.

SCV recording operation is inconsistent between CCD and CAN tractors -

On CCD tractors, the SCV recording is only activated and deactivated by moving the SCV lever to a detent position. Moving the SCV lever to any other position will not turn recording on or off. On CAN tractors, the SCV recording is turned on or off by any SCV lever input, not just the detent position. If an implement is raised or lowered just slightly the recording will turn. Please contact your dealer for CCD and CAN vehicle information.

Map name lost for dual variety - If a virtual* planting/seeding operation is created and defined as a split planter the foreground layer, which should correctly display the crop type for the operation, may incorrectly display "Planting/Seeding 1". Performing a warm boot of the GS2 2600 will correctly display the operation name.

*A virtual operation is an operation created without being connected to a controller

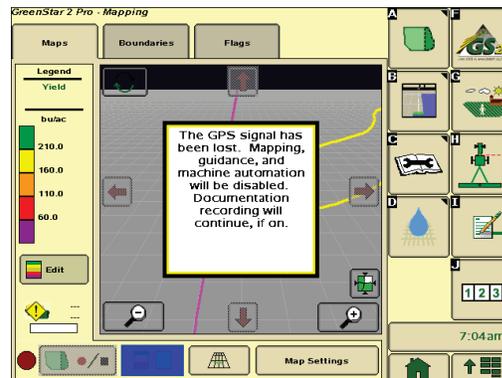
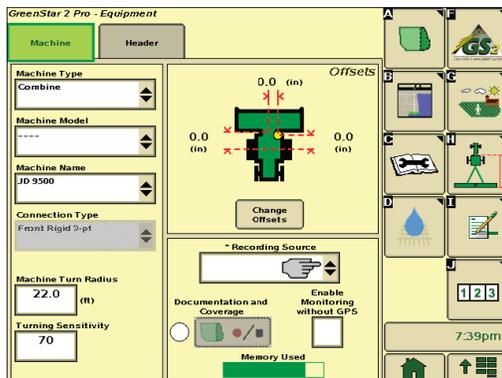
Maps disappear after changing implement section configuration - When changing implements in the middle of an operation, if the section configuration is changed, application and coverage maps will disappear. Two examples of where a section configuration change would occur is harvesting one half of a field with a 30' platform and the other half with a 35' platform or spraying one third of a field with a 90' boom and the remaining two thirds with 120' boom. In these two scenarios, the application and coverage maps would disappear in the GS2 2600 display. There is currently no work around.

Labels displayed incorrectly in the French language - The following two labels in the French language setting are unreadable: "Crop Season" (*GreenStar 2 Pro > Resources*) and "Carrier" (*GreenStar 2 Pro > Documentation > Product Application*). There is currently no work around.

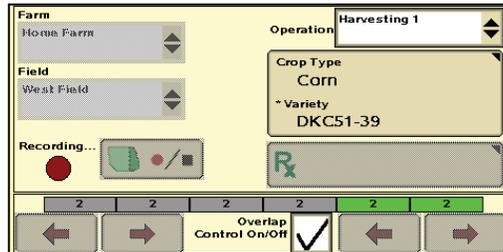
Prescription rate displays zero - When recording off, the operator may notice that the prescription rate displays zero even though the machine may be in area with a rate other than zero. When recording resumes, the prescription rate value returns. There is currently no work around.

Items of Interest

"Enable Monitoring without GPS" is no longer available - In previous software, an operator could choose to monitor operational information without the use of a GPS receiver. The ability to select this item has been removed. In current software, the GS2 2600 display will now document information with or without the use of a GPS receiver. It will use the wheel speed and implement width to perform calculations.



“Overlap Control Disabled” warning turns off Overlap Control - Following an “Overlap Control Disabled” warning message, the Overlap Control check box will become unchecked, turning it off. To enable Overlap Control, the check box can be located and turned back on via *GreenStar 2 Pro* >> *Softkey “H” (Equipment)* >> *Header Tab* >> *Overlap Control On/Off check box*. To more quickly identify if Overlap Control is enabled, it may be configured on one of your run pages.



Guidance - GS2 2600

Resolved Issues -

AB Curves line extension changes

Previous Software: Line extensions on AB Curves may not have been parallel to the previous pass.
Software Update 2009-2: Line extensions will be parallel for a distance of 300 feet. This should aid in line acquisition for the next pass, regardless of the radius of the curve.

Known Issues

AutoTrac RowSense compatibility update on 50 and 60 Series Combines -

After installing AutoTrac RowSense on a 50 or 60 Series Combine, equipped with integrated AutoTrac, an SSU 523795.12 message may occur inhibiting AutoTrac RowSense operation. Integrated AutoTrac systems equipped with a seven wire out-of-cab harness are not compatible with AutoTrac RowSense. These seven wire harnesses will need to be upgraded to eight wires to run AutoTrac RowSense. Contact your dealer and reference DTAC Solution 82284 for details.

AutoTrac RowSense (Integrated and Universal) creates Guidance Line Shifts - When operating AutoTrac RowSense, shift track functionality is disabled on the display; however the RowSense system may create necessary shifts based off of feeler data when operating in Straight Track, AB Curves, and Circle Track. These shifts are then stored to the data card and will replace existing guidance lines. To maintain guidance lines without the shifts, be sure to do the one of following, depending on the Tracking Mode used:

Straight Track - Prior to unloading data into Apex Farm Management Software, disable AutoTrac RowSense (*GreenStar 2 Pro* >> *Softkey "B"* >> *Guidance Settings* >> *RowSense Settings*) and clear all shifts on the GS2 display (*GreenStar 2 Pro* >> *Softkey "B"* >> *Shift Track Settings* >> *Clear All Shifts*).

AB Curves / Circle Track - Do not unload guidance files into Apex when unloading your harvesting data.

Adaptive Curves - It is advised, if possible, to Harvest in the Adaptive Curves Tracking Mode. This mode does not store shifts and thus guidance lines remain unchanged

Note: The above directions are only needed if the operator intends to use the same guidance lines from season to season.

Items of Interest

Installation Instructions for iGuide mast - Contact your dealer to view DTAC Solution 82341 for basic installation guidelines for masts on implements without approved bundles or installation instructions.

AutoTrac RowSense Universal performance factors - Dense weed patches or crops seeded between rows may simulate actual crop to the RowSense feelers decreasing the accuracy of the system. Operating the header above weed or intercrop growth may improve the system accuracy in these field conditions such as these.

AutoTrac RowSense Universal in Adaptive Curves Repeat Mode - When operating AutoTrac RowSense Universal in Repeat Mode, it is possible to run with recording off, degrading guidance performance in periods of crop dropout. Optimal performance of Adaptive Curves will occur when Repeat Mode is disabled. It is also suggested to select "Documentation" for Curve Track Recording. This will allow the operator to manually steer during operation and continue to record the path they are driving on.

Display - GS2 1800



[Known Issues](#)

StarFire iTC Receiver Compatibility - StarFire iTC receiver must have software version 3.40N or newer to operate with the GS2 1800 Display.

[Items of Interest](#)

Compatibility with Apex - Setup information (Clients, Farms, Fields, Machines, Implements, Boundaries, and Guidance Lines) can be transferred between GS2 1800, GS2 2600, and Original GreenStar Displays using Apex Farm Management Software. Apex must have the latest software.

Harvesting Instructions on Combines - On 00 and 10 Series combines an operator will need to engage coverage recording manually. On 50 and 60 Series combines automatic coverage recording is engaged by the "Header Height Setpoint." See your combine operator manual for setting this value. On all combine models the display will not automatically recognize the combine machine settings. If planning to categorize data by farm and field, the operator will need to enter farm and field in both the GreenStar Setup Wizard and Harvest Monitor.

How to update GS2 1800 software - The previous software, version 2.0.554, was updated through a special "factory reprogramming" method. The current software update, Software Update 2009-2, will not require this method, but will use a new version of the GS2 Live Update and updated normally through the USB device. See your operator manual for more information.

Home and Menu buttons added - Home and Menu buttons have been added to the bottom right area of the screen.

Memory Space Indicator - A new indicator will inform you of the amount of space remaining in the internal memory. This indicator is located at the Recording Diagnostics page. Go to Menu > GreenStar > Diagnostics > Select Recording from the View dropdown list.

Guidance - GS2 1800

[Resolved Issues](#)

Inaccurate AB Curves after shutdown or field changes

Previous Software: AB Curves guidance lines may have shifted after shutting down the display or changing fields in the setup.

Software Update 2009-2: AB Curves guidance lines will retain their accuracy after shutting down the display and changing fields.

Left-Hand Region Guidance page disappears

Previous Software: The guidance page in the Left-Hand Region would change to a blank screen when the implement is raised at the end of a row.

Software Update 2009-2: The guidance page no longer disappears when an implement is raised.

Items of Interest

GreenStar run page soft keys rearranged - The “Center Track” soft key was moved to the top level to make it more accessible. The “AutoTrac Sensitivity” soft keys were also moved one level down to make space for the other soft keys.

StarFire Receivers

Known Issues

StarFire iTC RTK Rover Access List (RAL) entries 197- 200 not displayed - The RAL does not populate locations 197-200 with serial numbers. Rover serial numbers can still be entered in locations 197 -200, but the serial numbers are not displayed on the RAL page. This doesn't affect the accuracy or functionality of the rovers entered in locations 197-200.

Items of Interest

Updating multiple receivers on the CANBus - Customers operating with two receivers, in operations such as Surface Water Pro or iGuide, should update receiver software separately by unplugging one receiver from the CANBus and running the automatic update. Once complete, unplug the first receiver and plug-in the second receiver to update the receiver software manually.

GreenStar 2 Rate Controller & Swath Control Pro

Known Issues

Unable to select “Front Rigid 3pt” as connection type for sprayers with front mounted booms - This connection type, Front Rigid 3pt, is not available for self-propelled sprayers so it is advised to set up the machine as a tractor with a front-mounted implement to accommodate a front-mounted boom sprayer.

GreenStar 2 Rate Controller information doesn't display correctly - If SeedStar™ is connected after the GreenStar 2 Rate Controller and product application information has already been entered, then this information will be lost due to a controller hierarchy conflict. It is advised to input documentation information after all controllers are connected.

Inactive status bar when reprogramming a GS2 Rate Controller - When reprogramming a rate controller it is possible that the status bar will not update correctly and appear unresponsive even though the controller is updating. It is advised to wait 10 minutes before cycling power. The GS2 Rate Controller softkey will be available on the menu page when the reprogramming is complete.

Items of Interest

GS2 Rate Controller Operators Manual - Screen shots within the NH₃ Tool Setup Section in the operator manual imply that the GS2 Rate Controller supports multiple NH₃ sections, but only 1 section is supported.

Software Versions

Version #	Description	Part #
iTC 3.41A	StarFire Receiver iTC	PF373341A
SF 7.70B	StarFire Receiver Gen II	PF300770B
TCM 1.09A	TCM	PF357109A
SF1.01D	StarFire 300	PF406101D
1.12A	GreenStar Lightbar	--
ATU 1.11H	ATU	PF395110H
ATU 2.11H	ATU 200	PF401210H
1.97B	Original GreenStar Display	PF303197B
2.4.1156	GS2 2600 Display	--
2.0.705	GS2 1800 Display	--
GRC 3.00P	GS2 Rate Controller	PF383300P
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ADOC 1.25A	Field Doc AirCart (NA only)	PF324125A
CDOC 3.56A	Field Doc Connect (NA)	PF362356A
CDOC 3.56A	Field Doc Connect (Europe)	PF367356A
FDOC 3.57A	Field Doc Basic (NA only)	PF304357A
TRAC 506A	Keycard	PF307506A
PDOC 3.35A	Field Doc Planter (NA)	PF323335A
PDOC 6.78A	Field Doc Planter (Europe)	PF323678A
SDOC 3.44A	Field Doc Sprayer	PF327344A
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HDCT 1.13A	Harvest Doc Cotton (NA only)	PF369113A
HMCT 1.06B	Harvest Monitor Cotton SCM (NA only)	PF370106B
CMFS 2.07C	Cotton Mass Flow Sensor CMFS (NA only)	PF371207C
SMON 1.73A	Original Harvest Monitor SPFH	PF311173A
HDSP 4.13A	Original Harvest Doc SPFH	PF320413A
--	GS2 Harvest Doc SPFH (controller) (via Service Advisor)	3.30D
--	Harvest Lab Sensor (See John Deere Dealer)	40
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YWW0D6_6.Y12	Reprogramming back to Combine Yield Mapping	PF301660D
YMAP 6.61A	Combine Yield Mapping	PF301661A
HMON 1.20C	Harvest Mon for Combine ((Gen II (In-Tank) moisture sensor))	PF347120C
MST 7.00D	Harvest Mon for Elevator Mount Moisture Board (GS2/GSD4)	PF347700D
MST 6.60B	Combine Yield Monitor (Gen I Moisture Sensor – ISO 2.5v Dual CAN)	PF302660B
MST 5.60A	Combine Yield Monitor (Gen I Moisture Sensor – Deere 4/5 CAN)	PF302560A
HDOC 1.54A	Harvest Doc Combine	PF360154A

Bold Font = Changed from Software Update 2009-1

Please visit the Software Delivery System (SDS) to view and/or update all other controllers