

Software Update 2009-1

Release Notes

- Resolved Issues
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Important Notes:

- To ensure proper functionality, it is suggested that customers use the most current version of display software and Apex desktop software (version 2.2). Please reference software versions at the end of this document.
- StellarSupport posts the latest versions of operator manuals available and includes additional information concerning changes in Software Update 2009-1. Please see this site to review your latest manual

http://stellarsupport.deere.com/en_US/support/OperatorManual-UserGuide.html

Customer Contact Center Information

www.stellarsupport.com
E-mail: GreenStar@JohnDeere.com
North America: 1-888-GRN-STAR
Australia: 0011-800-0000-3333
New Zealand: 00-800-0000-3333

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Release Notice

These are the Release Notes for the January 2009 GreenStar™ 2 Display 2600 software version 2.3.1385 and the Original GreenStar display software version 1.95H.



Resolved Issues

GS2

Two ground speed messages with Advanced Performance Monitor

Previous Software: If the “GPS or ground radar connected to display” checkbox was selected, when moving the GS2 from an 8020 Series Tractor with a basic performance monitor to an 8030 Series Tractor with an advanced performance monitor, the GS2 would receive two ground speed messages.

Software Update 2009-1: Fixed

GS2 – Documentation

Foreground layer defaulting to flags

Previous Software: When inserting a blank compact flash card into a display, powered, ON, the foreground layer would default to “Flags”.

Software Update 2009-1: The foreground defaults to “Coverage” when inserting a blank compact flash card into a display, powered, ON.

Map legend changes following a cold boot

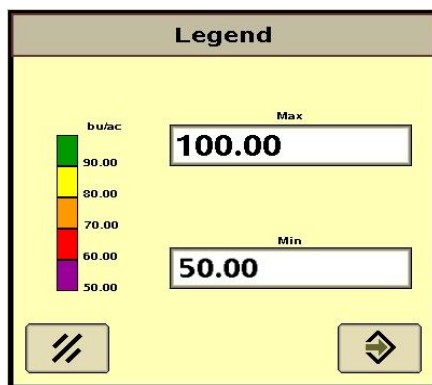
Previous Software: The rate legend on as-applied maps would change following a cold boot. The as-applied map would be available, but would display different colors and legend ranges.

Software Update 2009-1: Fixed

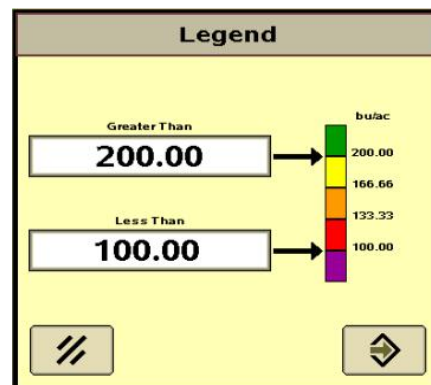
Legend range is misleading

Previous Software: The legend minimum and maximum represented the smallest and largest values displayed. Values below or above these ranges were not very clear.

Software Update 2009-1: The legend range is more clearly defined



Past Software



Current Software

Swath Control Pro™ is lost when changing units while connected to an ISO seeding implement

Previous Software: When changing the display units from “US” to “Metric” Swath Control Pro disappears from the GreenStar 2 Pro menu.

Software Update 2009-1: Fixed

Coverage map continuously “painted” when connected to an ISO seeding implement

Previous Software: When connected to an ISO seeding implement controller the GS2 may have had documentation recording, ON, regardless of planter position. The coverage was then continuously "painted."

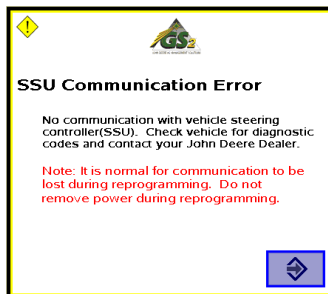
Software Update 2009-1: Fixed

GS2 – Guidance

SSU Alert during reprogramming of AutoTrac™ Universal

Previous Software: During the reprogramming of an ATU, an SSU alert would appear informing the user that communication has been lost. Commonly, an operator would remove power causing problems to the reprogramming process.

Software Update 2009-1: The below alert below message provides further direction.



Unable to set ATU vehicle direction

Previous Software: Occasionally the ATU would get fixed in the wrong direction of travel causing the display to populate the vehicle in reverse when it was actually moving forward

Software Update 2009-1: A toggle button is now available to specify the direction of travel (ATU & ATU 200)

Tractor “wiggles” on AB line with an ATU

Previous Software: When operating an ATU on an articulated tractor the vehicle would wiggle back and forth when tracking on a guidance line. Disengaging then reengaging AutoTrac would temporarily alleviate the issue.

Software Update 2009-1: Fixed (ATU and ATU 200)

ATU settings are too sensitive on older vehicles

Previous Software: AutoTrac disengaged frequently when operating an ATU with 1.07N software. The settings appeared to be too sensitive for adjusting older vehicle performance.

Software Update 2009-1: Fixed

Steering sensitivity box is grayed out

Previous Software: The steering sensitivity input box was grayed out and held a default value of 0. This inhibited the operator from fine-tuning guidance settings potentially affecting AutoTrac performance.

Software Update 2009-1: Fixed



AutoTrac SSU 209 code

Previous Software: After pressing the “Steer Icon” button to get the third piece of the AutoTrac pie, the display generates an SSU 209 error code. AutoTrac can then only be engaged by several key cycles.

Software Update 2009-1: Fixed

Tractor icon shows reverse direction, but tractor is forward

Previous Software: After a headland turn, the guidance view page would display the tractor in the wrong direction for up to 10 seconds.

Software Update 2009-1: Instances of this occurring have been reduced and should last for only up to 5 seconds.

StarFire

GPS not read correctly from an Original StarFire™

Previous Software: The GS2 display may have displayed “No GPS” when connected to a GEN2 receiver, even though the Original GreenStar display would show good GPS signal.

Software Update 2009-1: Fixed



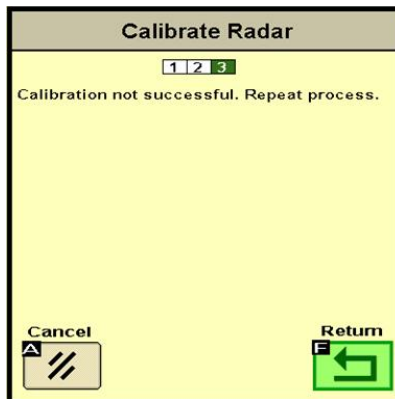
INFO	GPS	PAGE 1
08:27:14 GMT	2.11.2007	
Lat	29° 23' 46.72"S	
Lon	149° 52' 1.41"E	
Altitude (m)	213.852	
GPS Course	0°	
GPS Speed(kph)	0.0	
Position Mode	3Dsf1	
Corrections Age (sec)	10	
Satellites above Mask	10	
Satellites in Solution	8	
PDOP	2.9	
HDOP	1.7	
VDOP	2.4	
GPS Accuracy Indicator		70%

Known Issues

GS2

Tool-tip functions not available on all soft keys - On the main menu page the tool-tip verbiage only appears for the Performance Monitor and the Original GreenStar Display. Other applications (Message Center, GreenStar 2 Pro, Display, etc.) do not populate the tool-tip information.

Radar Calibration Issue – During radar calibration on John Deere machines including (00, 10, and 20 series tractors) and (00 and 10 series sprayers) if equipped, the “*Calibration not successful. Repeat process.*” message will appear even when the calibration was successful. This means there is no indicator at this time of whether your calibration was successful on these machines. We are working to resolve this issue.

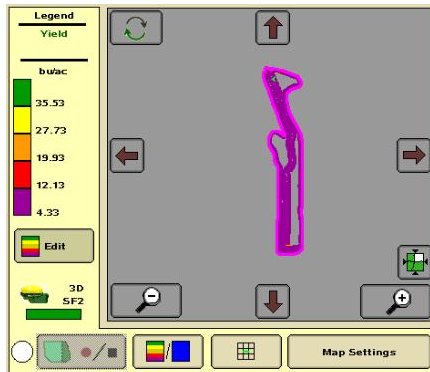


GS2 – Documentation

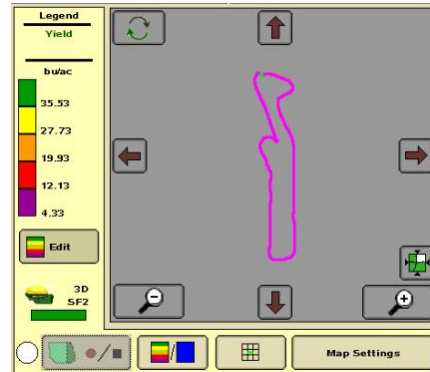
Client, Farm, Field, and Task are grayed out and cannot be changed - Occasionally the client, farm, field, and task may be grayed out indicating recording is on even though the implement or recording source is inactive or disengaged. There is currently no fix for this issue. Please contact your dealer. John Deere dealers please contact DTAC.

Unable to select “Front Rigid 3pt” as connection type for sprayers with front mounted booms - A connection type is unavailable 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.

After a cold boot of the display, the coverage map in overhead mapping view isn't displayed - If an operator has a coverage map of a field, with or without a boundary, and uses the overhead mapping view of the field after performing a cold boot of the display the boundary will only be displayed with no coverage map. Simply engage recording and the coverage map will reappear.



Before Cold Boot

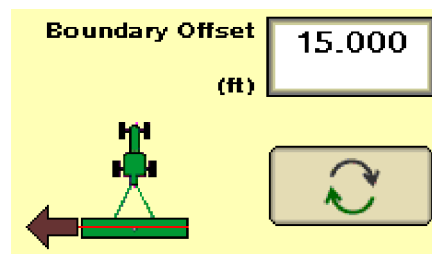


After Cold Boot

Foreground layer name lost for dual variety - The map name for a dual variety planting/seeding operation will change from ex. "Corn" to a more general "Planting/Seeding" if implement information is changed.

Prescription alerts not displayed for SeedStar 2 Planter - Two prescription alerts, "Controller not set to use prescriptions" and "No prescription available" are not seen when connected to an ISO seeding implement. Please ensure the ISO implement controller is setup correctly for variable rate operations and a prescription has been saved to the card.

Boundary recording position "indication icon" is misleading - On the Boundaries tab, when toggling through the various machine and implement boundary recording positions, the red line doesn't correctly indicate where recording is occurring. For example, in the image below, the boundary is being recorded from the left side of the rear of the implement opposed to the middle of the implement where the red line indicates.



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.



GS2 – Guidance

iTEC Pro™ lockup - With 8030 Series Tractor and iTEC Pro, there is an opportunity for iTEC Pro to become locked out. This state can occur when the operator aborts the entire sequence after a function had already been commanded in a sequence.

StarFire

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

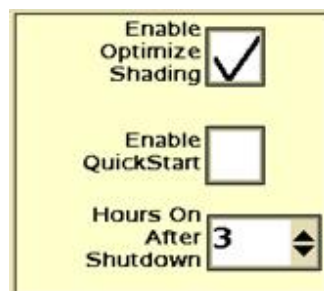
GS2

Surface Water Pro™ - Survey function within Surface Water Pro is NOT compatible nor should it be used in conjunction with Swath Control Pro. Please view the operator manual for additional information.

Planter settings aren't updated after changing in Original GreenStar display - When changing planter configurations within SeedStar on the Original GreenStar display, or emulation mode, the GS2 display will not update and display those changes. It is advised to perform a cold boot of the GS2 after planter settings have been changed to display them correctly.

StarFire iTC

Enable Optimize Shading - Prior to the release of this software the "Enable Optimize Shading" feature was defaulted to "off" and unchecked. In current software, "Enable Optimize Shading" has been defaulted to "on" and checked.



GreenStar 2 Rate Controller

Reprogramming Multiple GS2 Rate Controllers - When updating multiple GS2 Rate Controllers on one CAN Bus to software version 3.00P, the operator will need to cycle power in between updating individual controllers. Future updates (after 3.00P) to GS2 Rate Controllers will not require power cycles. If multiple GS2 Rate Controllers are installed with a SeedStar 2 Planter, please refer to DTAC solution 79183 for reprogramming instructions. DTAC solution 79183 will be updated in the near future.

Software Versions

Version #	Description	Part #
iTC 3.40N	StarFire Receiver iTC	PF373340N
SF 7.70B	StarFire Receiver Gen II	PF300770B
SF1.00C	StarFire 300	PF406100C
TCM 1.09A	TCM	PF357109A
ATU 1.10H	ATU	PF395110H
ATU 2.10H	ATU 200	PF401210H
2.3.1385	GS2 Display	--
1.95H	Original GreenStar Display	PF303195H
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
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)	3.22A
--	Harvest Lab Sensor (See John Deere Dealer)	38
YWW0D6_6.Y12	Reprogramming back to Combine Yield Mapping	PF301660D
YMAP 6.60E	Combine Yield Mapping	PF301660E
HMON 1.20C	Harvest Mon for Combine ((Gen II (In-Tank) moisture sensor))	PF347120C
MST 7.01B	Harvest Mon for Elevator Mount Moisture Board (GS2/GSD4)	PF347701B
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
SMVR 1.01M	SMVR Application File	PF382222
V01-V06 to V011A or ACII_01-06	AirCart Controller (Version 11 for 1.0 – 6.0)	PF381217
V07-V10 to V011A or ACII_07-10	AirCart Controller (Version 11 for 7.0 – 10.0)	PF381218
GRC 3.00P	GS2 Rate Controller	PF383300P
S2 VI Software 1104	AccuDepth Controller (via Service Advisor)	--