GreenStar™ Displays

Software Update 20-2 Release Notes
3.36.1073

Software Versions

The items in this chart are included in this software bundle. Bold items have changed from previous releases with either new feature enhancements or resolved items. Please contact your John Deere dealer to update controllers not included with this software bundle.

Version #	Description
3.36.1073	GreenStar™ 2630 Display
2.8.1033	GreenStar™ 2100/2600 Display
2.15.1096	GreenStar™ 1800 Display
GSD 1.97 B	Original GreenStar™ Display
GR6 4.40 P	**StarFire™ 6000 Receiver**
ITC 2.80 S	**StarFire™ 3000 Receiver**
ITC 3.73 H	StarFire™ iTC Receiver
LCR 1.10 C	StarFire™ 300 Receiver
SF 7.70 B	StarFire™ Gen II Receiver
1.10A	Machine Communication Radio
TCM 1.09 A	TCM
2.71 Z	Application Controller 1100 (iGrade™, Active Implement Guidance, Distance Trip) (S.N. PCXL01B100000 -)
1.51 Y	Application Controller 1120 (Yield Documentation Specialty Crop, Mobile Weather, Harvest Identification, Cotton) (S.N. PCXL02B100000 -)
3.14 A	**Application Controller 1100 (iGrade™, Active Implement Guidance, Distance Trip) (S.N. PCXL01C201000 -)**
3.14 A	**Application Controller 1120 (Yield Documentation Specialty Crop, Mobile Weather, Harvest Identification, Cotton) (S.N. PCXL02C201000 -)**
ATU 1.13 A	AutoTrac™ Universal 100
ATU 2.30 A	AutoTrac™ Universal 200
ATU 3.23 J	**AutoTrac™ Universal 300**
RG2 2.04 B	AutoTrac™ RowSense™ – Universal
CAT 1.11 B	AutoTrac™ Controller (Deere)
ATC 3.23 J	**AutoTrac™ Controller 300**
GRC 3.70 K	GreenStar™ Rate Controller
GDC 2.11 A*	GreenStar™ Rate Controller Dry
VGC 4.01 V	AutoTrac™ Vision Guidance
HMCT 1.20 A	Harvest Monitor™ Cotton SCM
CMFS 2.07 C	Cotton Mass Flow Sensor CMFS
SMON 1.73 A	Original Harvest Monitor™ SPFH
HMON 1.20 C	Harvest Monitor™ Combine with In-Tank Moisture
MST 7.01 B	Harvest Monitor™ Elevator Mount Moisture Board
AC 2.11	Original Air Cart
SMVR 1.01 M	SeedStar™ Gen II

New Features

GreenStar™ 3 2630 Display

Important Notes:

- Installation time will vary depending on the amount of existing data and the software version currently on the display. On average, total install time is 10-15 minutes.
- It is recommended to back up display data, prior to updating any Software as a precaution, to protect your information.
- It is suggested to erase all data from your GreenStar™ 3 2630 Display before loading new Setup Data, in an effort to remove unnecessary and potentially corrupt files that may hinder display performance.
- To ensure complete and proper functionality, the most current version of GreenStar™ Display and Operations Center, Apex™, or preferred partner desktop software should be used.

Compatibility:

- For John Deere Machine Sync functionality, GreenStar™ 3 2630 Displays must operate with matching software versions. (18-1 recommended).

- For John Deere Machine Sync – coverage map sharing, shared coverage maps will not persist after updating displays from SU15-2 to any newer version. Perform software update at the conclusion of field operations to ensure no coverage maps are lost.

- Coverage maps will not persist if GreenStar™ 3 2630 Display software is backdated from 18-1 to SU15-2 or older software version.

- ISOBUS AEF Certification functionality is only approved for 30 Series and newer tractors.

- ISOBUS AEF Certification functionality will disable the use of the virtual Original GreenStar™ Monitor mode within the GreenStar™ 3 2630 Display and controllers that are designed for use with the Original GreenStar™ Monitor mode.

- Turn on the Original GreenStar™ Monitor emulator when reprogramming controllers through the display. This is required for most legacy controllers.

- Generation 4 CommandCenter™ setup profiles will not directly import into the GreenStar™ 3 2630 Display. In order to import Gen4 CommandCenter™ profiles, first export data from the GreenStar™ 3 2630 Display with the profile name "JD4600". Next, using the same USB, export all data from the Gen4 CommandCenter™. All data will be merged into the JD4600 profile and then can be imported into the GreenStar™ 3 2630 Display.

- Software Version (18-1) is backwards compatible on all previous GreenStar™ 3 2630 Display hardware revisions. GreenStar™ 3 2630 Display software (15-2 and earlier) is not compatible with new GreenStar™ 3 2630 Display hardware revision H and later. GreenStar™ 3 2630 Display software (16-1 and earlier) is not compatible with new GreenStar™ 3 2630 Display hardware revision J and later. Hardware revision letter is found in the 7th digit of the display's serial number.

- Software version 18-1 is backward compatible with AYM controller software older than v83.11.

- All data created with 18-1 software will not be backwards compatible. Data created with software versions 17-1 and older will need to be cleared off display and a new setup file will need to be imported.
- For full Coverage Map Sharing (CMS) functionality, GreenStar™ 3 2630 Displays must operate on 18-1 software.

## StarFire™ 6000 Receiver

Required Software Update

As John Deere continues to develop new technology, StarFire™ Network changes were necessary to support the addition of new satellite constellations and additional enhancements. This required the introduction of a new signal.

StarFire™ 6000 and StarFire™ 3000 receivers must be updated to the 20-2 software update to continue operating on the new signal. Update all receivers prior to February 1, 2021 to avoid any interruption in function.

StarFire™ iTC receivers will not function on the new signal beginning February 1, 2021 but will continue to operate in WAAS, EGNOS, or Non-Diff (depending on location) until approximately 2026.

Continuous Data Logging

Diagnostic information is continuously logged internally on the StarFire™ 6000 receiver as individual work sessions from ignition on to ignition off with a maximum work session length of two hours. When a work session exceeds two hours, a new work session will automatically begin. Up to 48 hours of work sessions can be recorded.
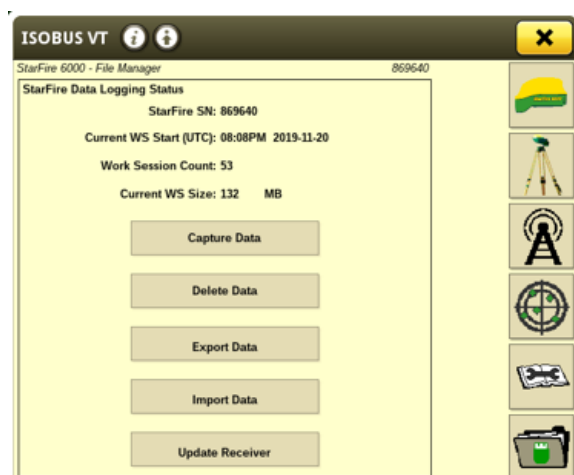
New RTK-X Status Added

A new status type was added to the Diagnostics Tab to clarify the extend function for RTK and Mobile RTK.

RTK-X Not Ready: If RTK signal is lost, the receiver reverts to WAAS, EGNOS, or 3D-None.

RTK-X Available: If RTK signal is lost, RTK-X is available, but an offset vector is not yet saved. If you cycle power or experience significant shading before 1 hour

elapses, RTK-X will no longer be available, and the position mode transitions to WAAS, EGNOS, or 3D-None, unless the rover reconnects to a base station.

RTK-X Ready**:** If RTK signal is lost, RTK-X is available for up to 14 days. After 14 days, the position mode transitions to WAAS, EGNOS, or 3DNone, unless the rover reconnects to a base station. Once connected to a base station and the offset vector is saved, the 14-day timer resets and RTK-X is available for another 14 days.

Improved Shared Signal and Machine Sync Compatibility

After the completion of the 20-2 software update on both receivers, Shared Signal and Machine Sync setups will have no limitations for leader and follower between StarFire™ 3000 and StarFire™ 6000.

StarFire™ 3000 Receiver

Required Software Update

As John Deere continues to develop new technology, StarFire™ Network changes were necessary to support the addition of new satellite constellations and additional enhancements. This required the introduction of a new signal.

StarFire™ 3000 and StarFire™ 6000 receivers must be updated to the 20-2 software update to continue operating on the new signal. Update all receivers prior to February 1, 2021 to avoid any interruption in function.

StarFire™ iTC receivers will not function on the new signal beginning February 1, 2021 but will continue to operate in WAAS, EGNOS, or Non-Diff (depending on location) until approximately 2026.

Application Controller 1100/1120 (S.N. PCXL01C201000-)

- New NMEA setup allows 'GGA, GSA, RMC' option when configuring a serial port connection.

- Active Implement Guidance / iGrade™: Will now show implement tracking error on the Steer Sensitivity screen to allow instant performance feedback while adjusting settings

- iGrade™: Added a new control mode called Depth Control. Operators can now set and adjust depth control in inches.

- Distance Trip / Active Implement Guidance / Plow Steer / iGrade™: The minimum speed requirement was updated to a lower limit of 0.1kph

- Distance Trip: Allow the user to shift pattern inline to adjust pattern after setting an origin point.

- Distance Trip: New functionality was added to the documentation of multiple rows and spacing per pass.

- Distance Trip: New Trip Command Type called 'Valve and Pulse' will allow the ability to trigger a valve in addition to a pulse simultaneously for every trip.

- Mobile Weather has a new icon to represent Relative Wind Speed Direction while in the vehicle to help understand drift.

- Yield Doc Specialty Crop: Added Wireless Data Transfer functionality for load documentation and digital inputs to setup as triggers for automating load documentation

- Plow Steer: New feature for support of plows with separate flipping SCV's. This will allow the user to select a shared or independent SCV to flip plow.

Resolved Items

GreenStar™ 3 2630 Display

Implement Width

- Display will not produce a coverage map operating with implements configured with one zero width section.
- Grey Implement width bar disappears after 17-1 update.

Advanced AutoTrac™ Settings – When using Reichhardt® advanced AutoTrac™ settings, the increase and decrease buttons max out at 255 instead of 200 when pressed several times.

Universal Performance Monitor (UPM) – Universal Performance Monitor missing in dual display setup with Generation 4 CommandCenter™.

Documentation – Yield and coverage maps are not retained after display shutdown.

Mapping – Gaps in Harvest Coverage Maps on combines running Active Yield.

Section Control

- When running Section Control with Slurry & Manure Constituent Sensing (MCS) combination, the MCS coverage map does not match the Slurry applicator.
- Section Control does not work with a connected Amazone Fertilizer.
- Display maps a section of false coverage causing gaps with Section Control, i.e. map flips.

Baler Automation – Baler automation will not engage with 3.19.1117 or newer 2630 software.

AutoTrac™ RowSense™ – When operating with RowSense™ enabled, in GPS-only mode, the AB line shift buttons will not shift the AB line causing the machine to steer onto the crop.

Receiver cab-offsets – StarFire receiver cab-offset shows on the wrong side for 6-walker combines.

Status Errors

- Status error 0.1CE8.00001 occurs when the display is connected to a 4G MTG LTE.
- Status error assertion failure 1.0640.00246.

Machine Sync Harvest Automation – Wireless Connection Error.

StarFire™ 6000 Receiver

StarFire™ 6000 with 900 Radio Not Acquiring RTK After Update to 4.40N

Upon updating a StarFire™ 6000 rover or base to the 20-2 software release, 4.40N, the radio configuration settings are changed to Radio Channel = 1 and Network ID = 1. The receiver is not operating in RTK.

Diagnostic Trouble Code 841.07 Intermittently Triggered at Startup

This release resolves the issue of DTC 841.07 occurring as a nuisance alert at startup.

StarFire™ 3000 Receiver

Direction Change Displayed Incorrectly in Slow Speed Integrated AutoTrac™

When traveling at slow speeds (below 0.5 kph/0.3 mph) and changing direction, direction of travel may not display correctly. This software update reduces the minimum speed from 0.5 kph to 0.1 kph for the system to determine correct direction of travel and resolve heading issues.

AutoTrac™ Universal 300

AutoTrac™ Universal 300 Steering Ratio Calibration Pause Button Error

This release fixes the issue where depressing the 'Pause' button and slowing down or shifting in reverse during a 'Steering Ratio Calibration' would cancel the calibration and force a restart of the calibration procedure. The 'Pause' function operates as intended, to allow operators to resume calibration in a small area.

AutoTrac™ Controller 300

Automation Time-out Issues with Line Acquires

Previous software allowed Automation Timeout to occur when unable to achieve line acquires in a period of time. This was most common on articulated tractors, as well as machines with cold hydraulic oil (<68 deg F). This release fixes this issue by allowing the AutoTrac™ Controller 300 motor to turn for a longer period of time before disengaging with "Automation Timeout".

Application Controller 1100/1120 (S.N. PCXL01C201000-)

- CAN Bus AutoBaud detection: Caused implement bus to crash on boot.
- Application Controller crashing on tractors with integrated receiver.
- External Valve going into 'Auto' mode without user input.

For a more complete in-depth list of resolved items reference the UCC2 New Product DTAC Solution

Release Notice

These are software release notes for the GreenStar™ 3 Displays and related products. Release Notes can be found on www.stellarsupport.com. Note: Your use of the software is governed by the End User License Agreement included with the software.