Drawn Dry Spreader Software Operating Instructions

JOHN DEERE

INSTALLATION INSTRUCTIONS

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Introduction

The SpreadStar System requires the use of GS2 2600 monitor and Starfire GPS receiver. The monitor and receiver should be installed and setup according to their respective operators manuals for use in the selected tractor. The DN 345 Drawn Dry Spreader is only compatible with this monitor and SpreadStar operating software with a Dry Rate Controller and harnesses.

IMPORTANT: It is important to follow proper use guidelines with the GSD2600 (GS2) 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 GS2 should be stored near room temperature during the off season with no items contacting the touchscreen surface.

The GS2 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 dry system information. It has the capability to simultaneously display information from multiple sensors.

See the GS2 display Operator's Manual for information on operation, navigation, and care of the display.

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.

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Handle Global Positioning Receivers and Brackets Safely

Falling while installing or removing a global positioning receiver can cause serious injury. Use a ladder or platform to easily reach a mounting location.

Use sturdy and secure footholds and handholds. Do not install or remove the receiver in wet or icy conditions.

The receiver mast used on implements is heavy and can be awkward to handle. Two people are required when mounting locations are not accessible from the ground or from a service platform. Use proper lifting techniques and wear proper protective equipment.

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Download And Install Software Payload

IMPORTANT: Before attempting to install software payload, controller and harness must be completely installed. Software Payload cannot be downloaded if controller is not installed or harness is unplugged.

NOTE: A software payload must be downloaded from the Software Delivery System (SDS) and installed on the Dry Rate Controller (DRC) for proper system operation. The most recent software payload can be downloaded through SDS by searching for a machine serial number.

- *DN345 serial number – located on machine serial number tag*
- *NL450C serial number – search for generic model payload N00450X000000*

1. Disconnect StarFire connector (A) from machine harness connector (B).

2. Disconnect GS2 2600 display.

NOTE: Complete instructions on downloading and installing Software Payload are given in PC20380 DOWNLOAD SOFTWARE PAYLOAD Installation Instruction.

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A—Connector   B—Connector

3. Download software payload using John Deere CUSTOM PERFORMANCE software delivery system.

4. Install software payload on Dry Rate Controller using Service ADVISOR™.

5. After Software Payload download and installation is complete, reconnect GS2 2600 display and reconnect StarFire connector (A) to machine harness connector (B).

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Install Foot Switch

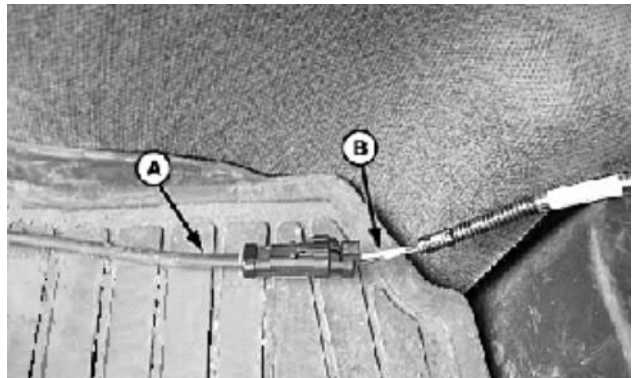1. Set foot switch (A) on floor of cab.

A—Floor Switch

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2. Route foot switch (A) harness along the floor of the cab by the control console. Connect floor switch harness to extension harness (B).

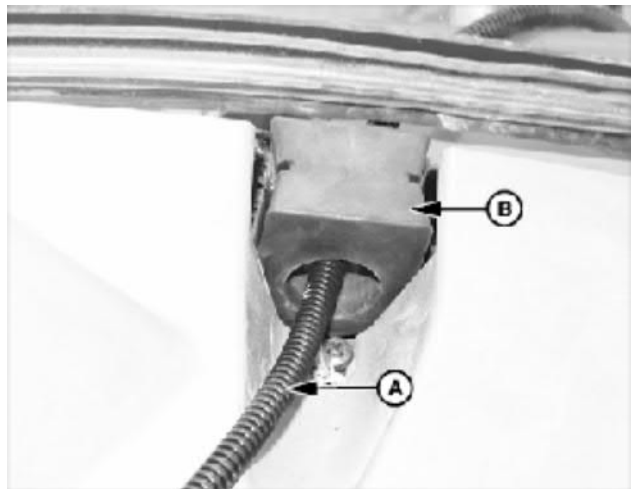A—Floor Switch Harness   B—Extension Harness

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3. Route extension harness (A) up the right-rear corner of the cab by the control console up to the back window.

4. Make a hole in the rubber boot (B) located in the back window.

5. Route harness through the rubber boot to rear of tractor.
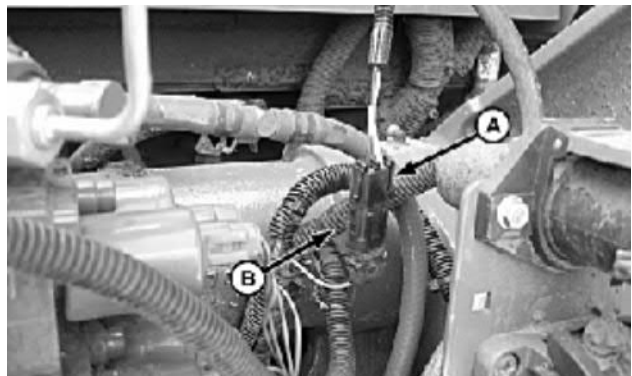
A—Extension Harness   B—Rubber Boot

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6. Connect extension harness connector (A) to 2-pin implement status breakout connector (B) located behind tractor's ISO connector.

A—Extension Harness   B—Connector

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Input Initial Settings and Perform Calibrations
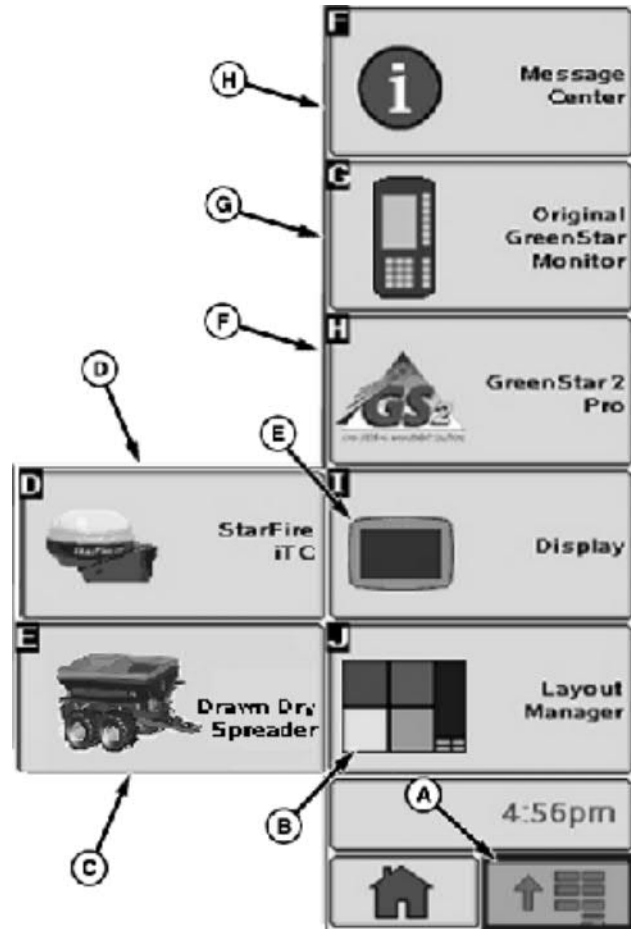
1. Perform setup procedures in this manual.

2. Perform a Spinner Calibration. (See Spinner Calibration section.)

3. Perform Product Calibration. (See Calibrate Product CFR section.)

4. Perform pan test for spreader pattern. (See New Leader information for procedure.)

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Application Menu

Selecting the Menu Button on the display gives access to the applications shown.

A—Menu Button
B—Layout Manager Button
C—Drawn Dry Spreader
   Application Button
D—StarFire ITC Button

E—Display Button
F—GreenStar2 Pro Button
G—Original GreenStar Monitor
   Button
H—Message Center Button

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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 dry spreader system information. It is designed to control the application rate of dry fertilizer and ag lime from one and two bin spreaders. Information regarding the product applied, application rate, ground speed, spinner speed, conveyor speed, and product density is easily accessed and displayed. The system has the capability to simultaneously display information from multiple sensors and can be configured by the operator for his specific spreader model.

A bin level sensor installed in the dry spreader provides bin empty warnings and provides necessary bin level status when operating automatic bin chaining feature with optional MultApplier inserted.

NOTE: Refer to the New Leader operators manual for your specific model dry spreader for more information on setup parameters, calibrations, and specifications.

MultApplier bin is driven by SCV #1 on tractor. SCV must be set for constant hydraulic flow of 34 lpm (9 gpm).

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For NL450C SCV #1 operates the main bin conveyor. Set tractor hydraulic SCV to constant flow of 102 lpm (27 gpm).

Refer to John Deere tractor operator's manual for proper setup, adjustment, and operation.

Actual application speeds and rates may vary based on several variables such as gate height setting, product density, product flow characteristics, conveyor speed perimeters, and type of terrain. Understand spreader parameters and settings prior to spreading Rx prescription maps.

When manual belt speed is selected the conveyor will operate at preselected rpm as soon as Master Spread switch is activated and does not require speed input to start conveyor. This can be used to "precharge" the conveyor output as needed.

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

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Thank you so much for reading.

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