



SeedStar™ Mobile



OPERATOR'S MANUAL SeedStar™ Mobile OMPFP16970 ISSUE F6 (ENGLISH)

CALIFORNIA Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

If this product contains a gasoline engine:

⚠ WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

The State of California requires the above two warnings.

Additional Proposition 65 Warnings can be found in this manual.

John Deere Ag Management Solutions
PRINTED IN U.S.A.



Introduction

Foreword

THANK YOU for purchasing a John Deere product.

READ THIS MANUAL carefully to learn how to operate and service your product correctly. Failure to do so could result in personal injury or equipment damage. This manual and safety signs on your product may also be available in other languages. (See your John Deere dealer to order.)

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your product and should remain with the product when you sell it.

MEASUREMENTS in this manual are given in both metric and customary U.S. unit equivalents. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction the machine or implement will travel when going forward.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the Operator's Manual. Accurately record all the numbers to help in tracing the product should it be stolen.

Serial Number:

Your dealer also needs these numbers when you order parts. File a backup of the identification numbers in a safe location off the machine or away from the product.

WARRANTY is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate or statement which you should have received from your dealer.

This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied.

If you are not the original owner of this product, it is in your interest to contact your local John Deere dealer to inform them of this unit's serial number. This will help John Deere notify you of any issues or product improvements.

JS56696,0000C4C -19-26JUN15-1/1

John Deere Technical Information Bookstore

NOTE: Product functionality may not be fully represented in this document due to product changes occurring after the time of printing. Read the latest Operator's Manual prior to operation. To obtain a copy, see your dealer or visit www.deere.com and use the 'Search for Agricultural Equipment Operator's Manuals' link to locate the John Deere Technical Information Bookstore.

CZ76372,000071F -19-20APR15-1/1

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Original Instructions. All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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A John Deere ILLUSTRATION™ Manual

Safety

Recognize Safety Information

This is a safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



DX,ALERT -19-29SEP98-1/1

T81389 —UN—28JUN13

Understand Signal Words

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

 **DANGER**

 **WARNING**

 **CAUTION**

DX,SIGNAL -19-03MAR93-1/1

TS187 —19—30SEP88

Follow Safety Instructions

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

There can be additional safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



If you do not understand any part of this manual and need assistance, contact your John Deere dealer.

DX,READ -19-16JUN09-1/1

TS201 —UN—15APR13

Practice Safe Maintenance

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

On self-propelled equipment, disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

On towed implements, disconnect wiring harnesses from tractor before servicing electrical system components or welding on machine.



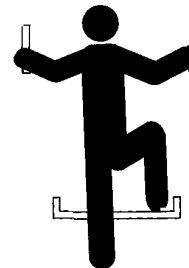
TS218 —UN—23AUG88

DX,SERV -19-17FEB99-1/1

Use Steps and Handholds Correctly

Prevent falls by facing the machine when getting on and off. Maintain 3-point contact with steps, handholds, and handrails.

Use extra care when mud, snow, or moisture present slippery conditions. Keep steps clean and free of grease or oil. Never jump when exiting machine. Never mount or dismount a moving machine.



T133468 —UN—15APR13

DX,WWW,MOUNT -19-12OCT11-1/1

Handle Electronic Components and Brackets Safely

Falling while installing or removing electronic components mounted on equipment can cause serious injury. Use a ladder or platform to easily reach each mounting location. Use sturdy and secure footholds and handholds. Do not install or remove components in wet or icy conditions.

If installing or servicing a RTK base station on a tower or other tall structure, use a certified climber.

If installing or servicing a global positioning receiver mast used on an implement, use proper lifting techniques and wear proper protective equipment. The mast 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.



TS249 —UN—23AUG88

DX,WW,RECEIVER -19-24AUG10-1/1

Use Electronic Display Properly

Electronic displays are secondary devices intended to aid the operator in performing field operations, increase comfort and provide entertainment. Displays offer a wide range of functionality, are used in many different machine system applications and can be used with other secondary devices such as handheld electronic devices.

A secondary device is any device that is not required to operate your machine for its primary use. The operator is always responsible for safe operation and control of the machine.

To prevent injury while operating the machine:

- Position the display according to the installation instructions. Ensure that the device is secured and does not obstruct the driver's view or interfere with the machine operating controls.
- Do not become distracted by the display. Stay alert. Pay attention to the machine and surrounding environment.

- Do not change settings or access any functions that require prolonged use of the display controls while machine is moving. Stop the machine in a safe location and place in park position before attempting such operations.
- Never set the volume so high that you cannot hear outside traffic and emergency vehicles.

To promote safe operation, certain functions of displays may be disabled unless the machine movement is restricted and/or has been placed in the park position. Overriding this safety feature may violate applicable law and can result in damage, serious injury, or death.

Only use available display functionality when conditions permit you to do so safely and in accordance with instructions provided. Always observe safe driving rules, state, or local laws and traffic regulations when using any secondary device.

DX,ELEC,DISPLAY -19-13JAN15-1/1

Prevent Electrical Shock and Fires

Battery-powered equipment or other electric power sources produce an electrical shock, sparks, or arcs if a short circuit occurs. Electrical short circuits can reach temperatures high enough to burn people, or ignite or melt common materials.

To prevent injury from electrical shock, burns, or potential fire hazards, always disconnect battery power or other electric power source on equipment before installing or servicing:

- Remove ground (negative terminal [-]) battery clamp.
- Detach and remove battery.
- Switch off main battery or other electric power source.
- Unplug electric power source from equipment.

Understand and follow all local codes and regulations when installing electrical equipment.



PC12631—UN—04JUN10

HC94949,0000487 -19-27JAN14-1/1

Avoid Exposure to High Radio Frequency Fields

Prevent injury from exposure to high radio frequency fields at the antenna. Do not touch antenna while the system is transmitting. Always disconnect power to the antenna before installing or servicing.

The antenna should always be separated from the operator or nearby persons by a minimum distance of 20 cm (8 in.).



PC12632—UN—04JUN10

JS56696,0000C0E -19-11DEC12-1/1

Regulatory and Compliance Information

Federal Communications Commission (FCC) Notifications to User

SeedStar™ Mobile

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Wireless Data Server

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide

reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

SeedStar is a trademark of Deere & Company

HC94949,00004B9 -19-22AUG14-1/1

Industry Canada Notifications to User

John Deere SeedStar™ Mobile

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Wireless Data Server

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter (IC: 9154A-GS1500M) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

PFP11422

2.4 GHz Antenna: Omnidirectional

- 2400-2500 MHz Frequency
- 50 OHMS Required Impedance
- 5 dBi Maximum Permissible Gain

RF Exposure Guidance

This equipment complies with FCC and Industry Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm (8 in.) between the radiator and persons. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with FCC and Industry Canada multi-transmitter product procedures.

PC19934—UN—04SEP14

Continued on next page

HC94949,00005A6 -19-04SEP14-1/2

John Deere SeedStar™ Mobile

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Wireless Data Server

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent émetteur (IC: 9154A-GS1500M) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

PFP11422

2.4 GHz Antenna: Omnidirectional

- 2400-2500 MHz Frequency
- 50 OHMS Required Impedance
- 5 dBi Maximum Permissible Gain

RF L'exposition Guidance

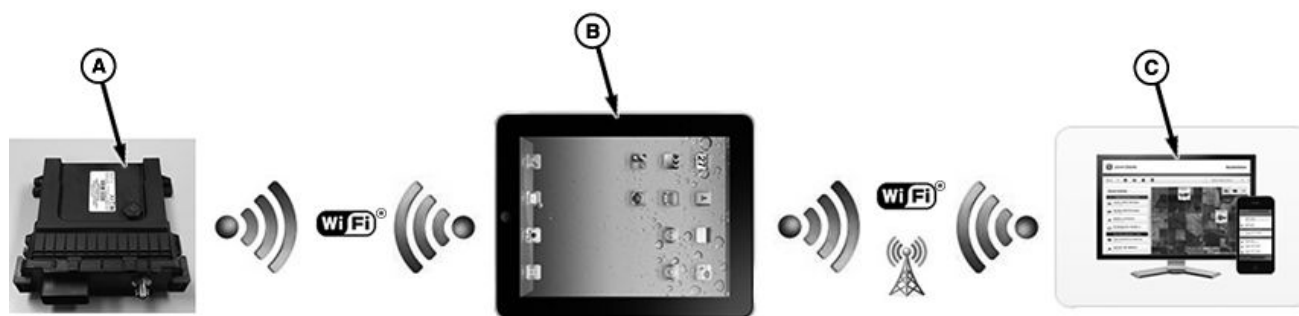
Cet équipement est conforme aux normes FCC et les limites d'exposition aux rayonnements Industrie Canada énoncées pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimale de 20 cm (8 in.) entre le radiateur et les personnes. Cet émetteur ne doit pas être co-localisées ou opérant en conjonction avec une autre antenne ou un autre émetteur, sauf en conformité avec la FCC et Industrie Canada Procédures de produits multi-émetteurs.

PC19935—UN—04SEP14

HC94949,00005A6 -19-04SEP14-2/2

System Overview

Theory of Operation



Theory of Operation

A—WDS
B—Tablet

C—MyJohnDeere

SeedStar™ Mobile features a map view of row-by-row performance of the planter. SeedStar™ Mobile documents and displays each row of the planter directly on a tablet. Planting seed events and row unit ride dynamics data are captured by existing planter controllers and sensors, and sent over CAN bus to an external wireless data server (WDS) (A) installed on the planter. From the WDS, the

planting data is transferred to the SeedStar™ Mobile application on a tablet (B) through a wireless connection. WDS antenna enables transmission and reception of Wi-Fi® signal and creates the wireless connection between WDS and tablet. A valid MyJohnDeere account (C) is utilized to provide the interface between the SeedStar™ Mobile application and MyJohnDeere.

SeedStar is a trademark of Deere & Company
Wi-Fi is a trademark of Wi-Fi Alliance.

AE77568,0000126 -19-13AUG15-1/1

Required Components

	SeedStar™ 3 HP	SeedStar™ XP
Wireless Data Server	X	X
Antenna and Cable	X	X
Seed Controller		X
Junction Box*		X

All compatible Deere Bauer planters do not require Junction Box.

AE77568,0000157 -19-09OCT15-1/1

MyJohnDeere

SeedStar™ Mobile requires a valid MyJohnDeere account and organization to activate wireless data server (WDS) and authenticate tablet.

MyJohnDeere also stores WDS software, and facilitates software reprogramming when needed.

(Reference Updating Software for more information.)



SeedStar is a trademark of Deere & Company

AE77568,0000132 -19-13AUG15-1/1

Wireless Data Server Subscription

A valid subscription is required to activate wireless data server (WDS) to enable data recording. Subscription must

be associated to appropriate MyJohnDeere account to activate WDS upon logging into mobile application. For more information, contact your John Deere dealer.

AE77568,0000116 -19-09OCT15-1/1

System Overview—Softkey Legend

Wireless Data Server—Main Softkey

PC19702 —UN—05JUN14

Select Main softkey to view recording status, wireless connection, data management, current field name, operation, and storage capacity.



Main Softkey

AE77568,0000104 -19-13AUG15-1/1

Wireless Data Server—Setup Softkey

PC18513 —UN—26FEB14

Select Setup softkey to view wireless network name, set and manage wireless network password, change wireless channel, view storage capacity, delete data from wireless data server (WDS), and update WDS software.



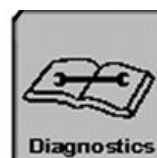
Setup Softkey

AE77568,0000105 -19-13AUG15-1/1

Wireless Data Server—Diagnostics Softkey

PC18512 —UN—26FEB14

Select Diagnostics softkey to view part number, serial number, software version, subscription status, CAN counters, and perform factory reset.



Diagnostics Softkey

AE77568,0000106 -19-13AUG15-1/1

Component Overview

Tablet

A Wi-Fi® enabled tablet gives the user an interface for communication between machine and other resources. Use tablet to download required applications. A cellular connection is not required, but is recommended.

Contact your John Deere dealer for list of compatible tablets and operating systems required for different applications. Language settings of tablet determine language used in mobile applications.

(Refer to tablet Operator's Manual to configure language setting.)

NOTE: Keep tablet at least 0.6 m (2 ft.) away from other communication devices. For example, two-way radios or wireless cameras.

Wi-Fi is a trademark of Wi-Fi Alliance.



PC21338—UN—08JUL15

AE77568,00000E6 -19-12AUG15-1/1

Planter

SeedStar™ Mobile is compatible with specific John Deere planter models equipped with SeedStar™ XP or SeedStar™ 3 HP monitoring systems. Contact your John Deere dealer for a list of compatible planter models.



PC20566—UN—15DEC14

SeedStar is a trademark of Deere & Company

AE77568,0000156 -19-01OCT15-1/1

StarFire™ Receiver

Receiver uses navigation satellites with StarFire™ correction satellites to determine machine location and direction of travel. An integrated terrain compensation module (TCM) adjusts machine position to compensate for uneven terrain. A receiver activation is required for SF2 or real time kinematics (RTK).



PC20203—UN—06NOV14

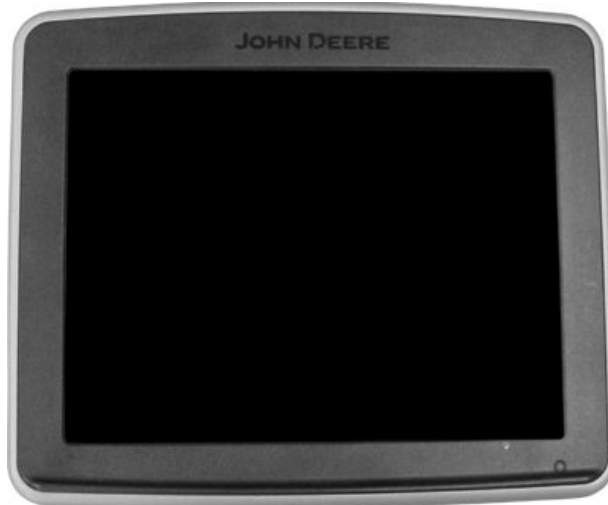
StarFire is a trademark of Deere & Company

HC94949,000061E -19-10AUG15-1/1

GreenStar™ Display

GreenStar™ Display is a user interface used by the operator to:

- Configure and calibrate system components.
- Monitor system performance.
- Make system adjustments.
- Program software.
- View diagnostic tests.



PC13407 —UN—20APR11

GreenStar™ 3 2630 Display

GreenStar is a trademark of Deere & Company

HC94949,00006C8 -19-01OCT15-1/1

Wireless Data Server

NOTE: To prevent loss of data, ensure data on wireless data server (WDS) is synchronized to tablet before deleting data or replacing WDS.

WDS supports data storage and data transfer between devices with CAN, Wi-Fi®, and Ethernet interfaces.

WDS collects and packages data from CAN bus and sends it wirelessly to tablet. If not connected to a device or tablet, WDS continues to collect and store data until a connection is made.



PC19880 —UN—06AUG14

Wi-Fi is a trademark of Wi-Fi Alliance.

AE77568,0000108 -19-09OCT15-1/1

Wireless Data Server Coaxial Cable and Antenna

Wireless data server (WDS) antenna enables Wi-Fi® connection to tablet. WDS antenna and coaxial cable are required to create unobstructed Wi-Fi® connection between WDS and tablet. Maximum wireless distance between antenna and tablet is 15.2 m (50 ft).



PC19883 —UN—06AUG14

Wi-Fi is a trademark of Wi-Fi Alliance.

AE77568,0000109 -19-17FEB16-1/1

Seed Controller

Seed controller receives and processes inputs from seed sensors to calculate and output row-by-row seed event data. Planters with 24 or fewer rows require one seed controller. Planters with more than 24 rows require an additional seed controller. Seed controller 1 monitors inputs from seed sensors on rows 1 through 24, and seed controller 2 monitors seed sensors on remaining rows.



PC18389 —UN—21JAN14

RR94114,000200C -19-18DEC14-1/1

Junction Box

Junction Box connects planter main harness to SeedStar™ Mobile components. This connection is a pass-through box only, and does not calculate or store data. Planters with 24 or fewer rows require one Junction Box, and planters with more than 24 rows require an additional Junction Box.

NOTE: All compatible Deere Bauer planters do not require a junction box.



PC18503 —UN—25FEB14

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RR94114,000200D -19-18DEC14-1/1

Setting Up—GreenStar™ 3 2630 Display

SeedStar™ Mobile Setup

1. Download SeedStar™ Mobile Application
2. Configure Wireless Data Server
3. Connect Tablet to Wireless Data Server

SeedStar is a trademark of Deere & Company

4. Verify Subscription of Wireless Data Server
5. Set Up Display
6. Set Up Planter

AE77568,0000173 -19-02NOV15-1/1

Download SeedStar™ Mobile Application

1. Open tablet's application store and search for: John Deere SeedStar™ Mobile.

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2. Select John Deere SeedStar™ Mobile.
3. Select install (download).

AE77568,0000127 -19-02NOV15-1/1

Configure Wireless Data Server

PC8663 —UN—29APR15



Menu Button

PC20562 —UN—16DEC14



Wireless Data Server Button

1. Select Menu button.
2. Select Wireless Data Server button.
3. Select Setup softkey.
4. Enter a Wireless Network Name (A). To differentiate between combines, use combine model or identifier (for example, John's Combine).

NOTE: Password is required to connect tablet to wireless data server (WDS). Ensure password can be easily remembered or record password and store for future reference.

Password criteria:

- 8—21 characters in length
- No spaces
- Only use characters available on display

5. Select Password Settings button (B). Enter password in Password entry box (C) and enter same password in Confirm Password entry box (D).
6. Factory default Wireless Channel (E) is 6. If using other wireless communication devices (for example, Machine Communication Radio) within 4.8 km (3 mi.) of wireless data server, select channel furthest away from other device's channel.

A—Wireless Network Name Entry Box
B—Password Settings Button
C—Password Entry Box

D—Confirm Password Entry Box
E—Wireless Channels Drop-down Menu

PC18513 —UN—26FEB14



Setup Softkey

Wireless Data Server - Setup

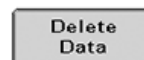
Wireless Network Name: (A)

Wireless Password:



Wireless Channels: (E)

Storage Capacity: N/A %



Wireless Data Server Setup

Password Settings

Enter New Password

Passwords are case sensitive and must be 8-21 characters in length.

Password: (C)

Confirm Password: (D)

Cancel
 Accept

Create Password

PC21325 —UN—29JUL15

PC21368 —UN—16JUL15

AE77568,0000161 -19-09NOV15-1/1

Connect Tablet to Wireless Data Server

On tablet, connect to Wireless Network Name that was set up on display.

1. Select wireless network name.
2. Enter wireless password.

HC94949,00009E9 -19-23JUN16-1/1

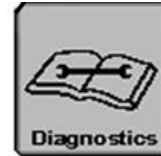
Verify Subscription of Wireless Data Server

PC20562 —UN—16DEC14

PC18512 —UN—26FEB14



Wireless Data Server Button



Diagnostic Softkey

NOTE: Global positioning system (GPS) signal is required to show valid subscription status.

Wireless Data Server - Diagnostics

Part Number: PFA10595

Serial Number: PCWDSAB000385

Software Version/Part Number: 2.291.1

A Subscription Status: Activated

A—Subscription Status

Factory
Reset

CAN1 Counter: 3552

CAN2 Counter: 0

CAN3 Counter: 0

Wireless Data Server Diagnostics

AE77568,0000162 -19-02NOV15-1/1

PC21327 —UN—16JUL15

Set Up Display

PC8663 —UN—29APR15



Menu Button

PC17340 —UN—24OCT13



GreenStar™ 3 Button

1. Select Menu button.
2. Select GreenStar™ button.
3. Select Resources softkey.
4. Enter client, farm, field, task, and crop season.
5. Select Equipment softkey.
6. Enter machine and implement settings and recording source.
7. Select Documentation softkey.
8. Create a Planting / Seeding Documentation tab if not already present and enter seed variety information and assign appropriate rows.

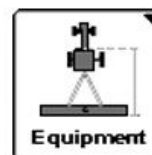
(For more information on GreenStar™ 3 2630 Display setup, reference GS3 2630 Display Operator's Manual.)

PC21150 —UN—11MAY15



Resources Softkey

PC21184 —UN—20MAY15



Equipment Softkey

PC21151 —UN—11MAY15



Documentation Softkey

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AE77568,000012A -19-02NOV15-1/1

Set Up Planter

1. Select Menu button.
2. Select Planter button. Refer to planter Operator's Manual for setting up planter.

NOTE: Planter button varies depending on planter monitoring system.

PC8663 —UN—29APR15



Menu Button

PC20557 —UN—16DEC14



Planter Button

AE77568,0000158 -19-02NOV15-1/1

Setting Up—Generation 4 Display

SeedStar™ Mobile Setup

1. Download SeedStar™ Mobile Application
2. Configure Wireless Data Server
3. Connect Tablet to Wireless Data Server

SeedStar is a trademark of Deere & Company

4. Verify Subscription of Wireless Data Server
5. Set Up Display
6. Set Up Planter

AE77568,0000173 -19-02NOV15-1/1

Download SeedStar™ Mobile Application

1. Open tablet's application store and search for: John Deere SeedStar™ Mobile.

SeedStar is a trademark of Deere & Company

2. Select John Deere SeedStar™ Mobile.
3. Select install (download).

AE77568,0000127 -19-02NOV15-1/1

Configure Wireless Data Server

PC16682 —UN—18MAR13



ISOBUS VT Application

PC21499 —UN—14SEP15



Wireless Data Server Button

PC15293 —UN—18MAR13



ISOBUS VT Menu Button

PC21805 —UN—29OCT15



Setup Softkey

1. Select ISOBUS VT application.
2. Select ISOBUS VT Menu button.
3. Select Wireless Data Server button.
4. Select Setup softkey.
5. Enter a Wireless Network Name (A). To differentiate between combines, use combine model or identifier (for example, John's Combine).

NOTE: Password is required to connect tablet to wireless data server (WDS). Ensure password can be easily remembered or record password and store for future reference.

Password criteria:

- 8—21 characters in length
- No spaces
- Only use characters available on display

6. Select Password Settings button (B). Enter password in Password entry box (C) and enter same password in Confirm Password entry box (D).
7. Factory default Wireless Channel (E) is 6. If using other wireless communication devices (for example, Machine Communication Radio) within 4.8 km (3 mi.) of wireless data server, select channel furthest away from other device's channel.

A—Wireless Network Name Entry Box
B—Password Settings Button
C—Password Entry Box
D—Confirm Password Entry Box
E—Wireless Channels Drop-down Menu

Wireless Data Server - Setup

Wireless Network Name: (A)

Wireless Password:

(B) Password Settings

Wireless Channels: (E)

Storage Capacity: 99 %

Delete Data

Software Update

Wireless Data Server Setup

Password Settings

Enter New Password

Passwords are case sensitive and must be 8-21 characters in length.

Password: (C)

Confirm Password: (D)

Create Password

PC21802 —UN—29OCT15

PC21803 —UN—29OCT15

AE77568,0000170 -19-09NOV15-1/1

Connect Tablet to Wireless Data Server

On tablet, connect to Wireless Network Name that was set up on display.

1. Select wireless network name.
2. Enter wireless password.

HC94949,00009E9 -19-23JUN16-1/1

Verify Subscription of Wireless Data Server

PC21499 —UN—14SEP15

PC21806 —UN—29OCT15



Wireless Data Server Button



Diagnostics Softkey

NOTE: Global positioning system (GPS) signal is required to show valid subscription status.

Wireless Data Server - Diagnostics

1. Select Wireless Data Server button.
2. Select Diagnostics softkey.
3. Verify Subscription Status (A) displays Activated.
4. If wireless data server is not activated, contact your John Deere dealer to activate.

Part Number: PFA10595

Serial Number: PCWDSAB000354

Software Version/Part Number: 1.312.9001

A Subscription Status: Activated

A—Subscription Status



CAN1 Counter: 201637

CAN2 Counter: 155722

CAN3 Counter: 11274

Wireless Data Server Diagnostics

AE77568,0000171 -19-02NOV15-1/1

PC21807 —UN—30OCT15

Set Up Display

PC17269 —UN—15JUL13



Menu Button

1. Select Menu button.
2. Select Applications tab.
3. Select Fields & Boundaries application.
4. Enter client, farm, and field. Select OK button when done.
5. Select Equipment Manager application.
6. Enter machine and implement settings and verify recording trigger.
7. Select Work Setup application.
8. Enter crop type and variety and either set rate or select prescription. Select OK button when done.

(For more information on Generation 4 Display setup, reference Generation 4 Display Applications Operator's Manual.)

PC21496 —UN—05OCT15



Applications Tab

PC17260 —UN—11JUL13



Fields & Boundaries Application

PC20410 —UN—22MAY15



Equipment Manager Application

PC20415 —UN—11MAY15



Work Setup Application

PC21801 —UN—29OCT15



OK Button

AE77568,000015F -19-02NOV15-1/1

Set Up Planter

PC17269 —UN—15JUL13



Menu Button

PC16682 —UN—18MAR13



ISOBUS VT Application

1. Select Menu button.
2. Select Applications tab.
3. Select ISOBUS VT application.
4. Select ISOBUS VT Menu button.

NOTE: Planter button varies depending on planter monitoring system.

5. Select Planter button.
(Reference planter Operator's Manual for setting up planter.)
6. Select OK button when done.

PC21496 —UN—05OCT15



Applications Tab

PC15293 —UN—18MAR13



ISOBUS VT Menu Button

PC21700 —UN—08OCT15



Planter Button

PC21801 —UN—29OCT15



OK Button

AE77568,0000160 -19-02NOV15-1/1

Operating

Operating SeedStar™ Mobile

1. Operate SeedStar™ Mobile

2. Navigate to Wireless Data Server Page

3. View Wireless Data Server Main Page

AE77568,000015A -19-09NOV15-1/1

Operate SeedStar™ Mobile

1. Verify display is set up correctly.

(Reference Setting Up section for more information.)

2. Verify planter is set up correctly in display.

(Reference planter Operator's Manual for setting up planter.)

3. Open SeedStar™ Mobile application on tablet.

4. Verify tablet is connected to wireless data server (WDS).

(Reference Setting Up section for more information.)

5. Once tablet is connected to WDS, current global positioning system (GPS) location is displayed within SeedStar™ Mobile application. Enter field, lower planter, and start planting.

NOTE: Map plotting within SeedStar™ Mobile application reacts to planter position. When planter is lowered and actively planting, map plotting in SeedStar™ Mobile application starts. Raising planter stops map plotting.

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AE77568,000012B -19-09OCT15-1/1

Navigate to Wireless Data Server Page

PC8663 —UN—29APR15

Using GreenStar™ 3 2630 Display

1. Select Menu button.



Menu Button

AE77568,0000176 -19-06NOV15-1/2

Using Generation 4 Display

PC16682 —UN—18MAR13



ISOBUS VT Application

1. Select ISOBUS VT application.

PC15293 —UN—18MAR13



ISOBUS VT Menu Button

2. Select ISOBUS VT Menu button.

AE77568,0000176 -19-06NOV15-2/2

View Wireless Data Server Main Page

1. Select Wireless Data Server button.
2. Select Main softkey.

Recording (A)—Flashes when wireless data server (WDS) is collecting data.

Wireless Connection (B)—Displays Connected when tablet connects to WDS.

Data Available (C)—Solid green indicates data on WDS has not been sent to tablet.

Field ID (D)—Field name used in display.

Operation (E)—Type of software installed on WDS.

Storage Capacity (F)—Amount of space available to store recorded data.

A—Recording
B—Wireless Connection
C—Data Available

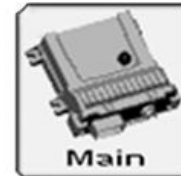
D—Field ID
E—Operation
F—Storage Capacity

PC20562 —UN—16DEC14



Wireless Data Server Button

PC19702 —UN—05JUN14



Main Softkey

Wireless Data Server - Main Page

- (A) Recording:
- (B) Wireless Connection: N/A
- (C) Data Available: ●
- (D) Field ID: 8dec8DEV2
- (E) Operation: Planting
- (F) Storage Capacity: 67 %

Wireless Data Server Main Page

AE77568,000012C -19-09OCT15-1/1

PC20575 —UN—13AUG15

Managing Data On Wireless Data Server

Navigate to Wireless Data Server Page

PC8663 —UN—29APR15

Using GreenStar™ 3 2630 Display

1. Select Menu button.



Menu Button

AE77568,0000176 -19-06NOV15-1/2

Using Generation 4 Display

PC16682 —UN—18MAR13



ISOBUS VT Application

1. Select ISOBUS VT application.

PC15293 —UN—18MAR13



ISOBUS VT Menu Button

2. Select ISOBUS VT Menu button.

AE77568,0000176 -19-06NOV15-2/2

Delete Data From Wireless Data Server

PC20562 —UN—16DEC14

NOTE: To prevent data loss, ensure wireless data server (WDS) data is synchronized to tablet before deleting data or replacing WDS.

1. Select Wireless Data Server button.
2. Select Setup softkey.



Wireless Data Server Button

PC18513 —UN—26FEB14



Setup Softkey

Continued on next page

AE77568,0000163 -19-08OCT15-1/2

Wireless Data Server - Setup

Wireless Network Name: PCWDSAB000346

Wireless Password: *****

Password
Settings

Wireless Channels: 6

Storage Capacity: 72 %

A Delete
Data

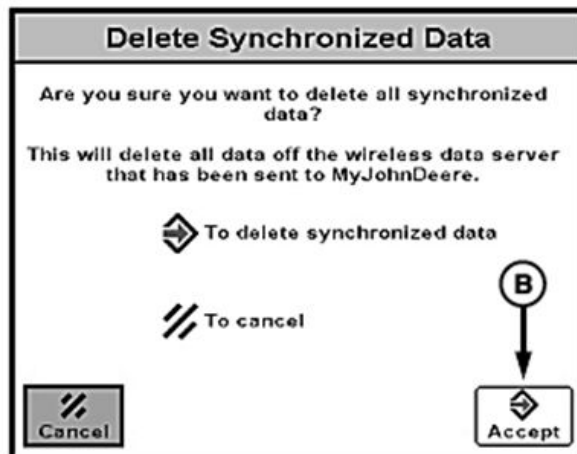
Software
Update

Wireless Data Server Setup

A—Delete Data Button

B—Accept Button

3. Select Delete Data button (A).



Delete Synchronized Data

4. Select Accept button (B).

AE77568,0000163 -19-08OCT15-2/2

PC21329—UN—16JUL15

PC20565—UN—08JUL15

Updating Software

Update Software

1. Navigate to Wireless Data Server
2. Update Wireless Data Server

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- a. Automatically Update Wireless Data Server
 - b. Manually Update Wireless Data Server
3. Update SeedStar™ Mobile Application.

AE77568,000014E -19-09NOV15-1/1

Navigate to Wireless Data Server Page

PC8663 —UN—29APR15

Using GreenStar™ 3 2630 Display

1. Select Menu button.



Menu Button

AE77568,0000176 -19-06NOV15-1/2

Using Generation 4 Display

PC16682 —UN—18MAR13

PC15293 —UN—18MAR13



ISOBUS VT Application

1. Select ISOBUS VT application.



ISOBUS VT Menu Button

2. Select ISOBUS VT Menu button.

AE77568,0000176 -19-06NOV15-2/2

Update Wireless Data Server

IMPORTANT: Ensure that machine is parked before updating software.

Automatically Update Wireless Data Server (WDS)

SeedStar™ Mobile compares WDS software version to payload stored in MyJohnDeere. If available, SeedStar™ Mobile downloads the newer software from MyJohnDeere and sends it to WDS.

1. Connect tablet to WDS.
(Reference Connect Tablet to Wireless Data Server for more information.)
2. Open SeedStar™ Mobile application and log in to MyJohnDeere.
3. If newer software is available, operator receives a prompt on display. Select Accept button (A) and follow display prompts.

NOTE: If Cancel (B) is selected, this message occurs after every key cycle.

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Software Update

A—Accept Button

B—Cancel Button

PC21831 —UN—09NOV15

Continued on next page

AE77568,000012D -19-09NOV15-1/2

PC20562 —UN—16DEC14



Wireless Data Server Button

Manually Update Wireless Data Server

If software update prompt is canceled, operator can update WDS software from WDS Setup page.

1. Select Wireless Data Server button.
2. Select Setup softkey.
3. Select Software Update button (A) to check if software is available.
4. Follow display prompts to update WDS.

A—Software Update Button

PC18513 —UN—26FEB14



Setup Softkey

Wireless Data Server - Setup

Wireless Network Name: PCWDSAB000346

Wireless Password: *****

Password
Settings

Wireless Channels: 6

Storage Capacity: 72 %

Delete
Data

A Software
Update

Wireless Data Server Setup

AE77568,000012D -19-09NOV15-2/2

PC21330 —UN—16JUL15

Update SeedStar™ Mobile Application

Use tablet's application store to update SeedStar™ Mobile. Most tablet manufacturers notify user if an update

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is available for applications. Contact your John Deere dealer to verify you have the latest application version prior to using mobile application.

AE77568,0000133 -19-01OCT15-1/1

Resetting Wireless Password

Navigate to Wireless Data Server Page

PC8663 —UN—29APR15

Using GreenStar™ 3 2630 Display

1. Select Menu button.



Menu Button

AE77568,0000176 -19-06NOV15-1/2

Using Generation 4 Display

PC16682 —UN—18MAR13



ISOBUS VT Application

1. Select ISOBUS VT application.

PC15293 —UN—18MAR13



ISOBUS VT Menu Button

2. Select ISOBUS VT Menu button.

AE77568,0000176 -19-06NOV15-2/2

Reset Wireless Password

PC20562 —UN—16DEC14

If current password is known:

1. Select Wireless Data Server button.
2. Select Setup softkey.



Wireless Data Server Button

PC18513 —UN—26FEB14



Setup Softkey

Continued on next page

AE77568,0000164 -19-08OCT15-1/3

Wireless Data Server - Setup

Wireless Network Name: PCWDSAB000346

Wireless Password: *****

A Password Settings

Wireless Channels: 6

Storage Capacity: 72 %

Delete Data

Software Update

Wireless Data Server Setup

Password Settings

If you forgot your password, contact your John Deere dealer.

Previous Password:

New Password:

Confirm Password:

Note - You must confirm the password in order to continue.

2:24pm

Password Settings

PC21331—UN—16JUL15

PC20569—UN—15DEC14

- A—Password Settings Button C—New Password Entry Box E—Accept Button
B—Previous Password Entry Box D—Confirm New Password Entry Box

3. Select Password Settings button (A).
4. Enter Previous Password (B).
5. Enter New Password (C) and Confirm New Password (D).
6. Select Accept button (E).

Continued on next page

AE77568,0000164 -19-08OCT15-2/3

Wireless Data Server - Setup

Wireless Network Name: PCWDSAB000346

Wireless Password: *****

A Password Settings

Wireless Channels: 6

Storage Capacity: 72 %

Delete Data

Software Update

Wireless Data Server Setup

If current password is unknown:

1. Select Wireless Data Server button.
2. Select Setup softkey.
3. Select Password Settings button (A).
4. Select Forgot Password button (B).
5. Contact your John Deere dealer and provide them with the WDS Serial Number (C) and Challenge Code (D).

A—Password Settings Button

B—Forgot Password Button

C—Wireless Data Server Serial Number

D—Challenge Code

PC21331—UN—16JUL15

Password Settings

Change password

Passwords are case sensitive and must be 8-21 characters in length.

Previous Password:

New Password:

Confirm Password:

Note - You must confirm the password in order to continue.

B Forgot Password

Cancel Accept

Wireless Data Server Password Settings

PC21309—UN—29JUN15

Password Settings

Please contact your dealer to reset your password.

You will need to provide the following information:

C → WDS Serial Number: PCWDSAB000346

D → Challenge Code: 5750104

Cancel Accept

Wireless Data Server Forgot Password

PC21310—UN—29JUN15

AE77568,0000164 -19-08OCT15-3/3

Troubleshooting

Navigate to Wireless Data Server Page

PC8663 —UN—29APR15

Using GreenStar™ 3 2630 Display

1. Select Menu button.



Menu Button

AE77568,0000176 -19-06NOV15-1/2

Using Generation 4 Display

PC16682 —UN—18MAR13



ISOBUS VT Application

1. Select ISOBUS VT application.

PC15293 —UN—18MAR13



ISOBUS VT Menu Button

2. Select ISOBUS VT Menu button.

AE77568,0000176 -19-06NOV15-2/2

Wireless Data Server Diagnostics

1. Select Wireless Data Server button.
2. Select Diagnostic softkey.

Part Number (A) and Serial Number (B)—Displays wireless data server (WDS) identification information.

Software Version / Part Number (C)—Displays WDS software version installed.

Subscription Status (D)—Displays if WDS subscription is active or inactive.

NOTE: Data cannot be retrieved after Factory Reset.

Factory Reset Button (E)—Deletes all data from WDS, including wireless network name and wireless password information.

Implement CAN Counters (F)—Displays number of CAN messages received on CAN bus. Accumulating numbers indicates there is communication on the CAN bus.

NOTE: CAN counters can be used for dealer diagnostics.

CAN1: Implement CAN communication

CAN2: Left Subnet CAN communication

CAN3: Right Subnet CAN communication

A—Part Number	D—Subscription Status
B—Serial Number	E—Factory Reset Button
C—Software Version / Part Number	F—Implement CAN Counters

PC20562 —UN—16DEC14



Wireless Data Server Button

PC18512 —UN—26FEB14



Diagnostic Softkey

Wireless Data Server - Diagnostics

(A) Part Number: PFA10595

(B) Serial Number: PCWDSAB000385

(C) Software Version/Part Number: 2.291.1

(D) Subscription Status: Activated



(F)

- CAN1 Counter: 3552
- CAN2 Counter: 0
- CAN3 Counter: 0

Wireless Data Server Diagnostics

PC21332 —UN—16JUL15

AE77568,000012F -19-08OCT15-1/1

On Screen Help

The mobile application is equipped with detailed help information. On screen help is available by pressing Information (?) button in mobile application header.

Information buttons link directly to help for utilizing and interacting with the application. Reading Operator's Manual and on screen help information is recommended.

HC94949,00009E8 -19-15JUN16-1/1

Additional Support Material

Additional support material is available through the mobile application to further assist users with utilization and troubleshooting:

- How To Videos
- Observable symptoms and troubleshooting recommendations
- Optimization recommendations

RR94114,0002026 -19-18DEC14-1/1

Troubleshooting—Tablet

Symptom	Problem	Solution
Tablet is unable to download application from application store.	Incompatible tablet hardware or operating system.	Verify compatible tablet hardware and operating system is being used. Refer to Deere.com or your John Deere dealer for compatible version of tablet hardware and operating systems.
	Insufficient tablet memory.	Verify tablet has sufficient memory to download the mobile application. Refer to tablet manufacturer for managing tablet memory.
	No internet connectivity.	Verify data plan or Wi-Fi® is enabled. Refer to tablet manufacturer support material for diagnosing Internet connectivity issues.
	Insufficient battery level.	Ensure tablet meets manufacturer minimum battery level requirements for downloading applications.
	Application store issues.	Application store may be experiencing issues. Attempt to download application at a later time.

Wi-Fi is a trademark of Wi-Fi Alliance.

AE77568,0000117 -19-12AUG15-1/1

Maintenance

Preseason Checklist

- ☐ Update all SeedStar™ Mobile components, including:
 - Display
 - StarFire™ Receiver
 - Wireless data server (WDS)
 - Planter controllers (Contact your John Deere dealer.)
- ☐ Ensure planter is properly setup and calibrated.
- ☐ Update tablet operating system.
- ☐ Update SeedStar™ Mobile application.
- ☐ Ensure display documentation setup is complete.
- ☐ Inspect wiring harness for damage.
- ☐ Ensure antenna is installed properly and connected tightly.
- ☐ Ensure all connectors are tight, and all pins are properly seated.
- ☐ Ensure all planting data is synchronized to desired locations or deleted.

*SeedStar is a trademark of Deere & Company
StarFire is a trademark of Deere & Company*

AE77568,0000130 -19-08OCT15-1/1

Post-season Checklist

- ☐ Ensure all planting data is synchronized to desired locations or deleted.
- ☐ Inspect wiring harness for damage.

RR94114,0001F78 -19-15DEC14-1/1

Daily Checklist

- ☐ Ensure planter is set up and calibrated properly.
- ☐ Ensure antenna is installed properly and connected tightly.
- ☐ Ensure all connectors are tight and pins are seated properly.
- ☐ Ensure all planting data is synchronized to desired locations or deleted.
- ☐ Ensure tablet is fully charged before utilizing SeedStar™ Mobile application. Connect tablet to machine accessory outlet.

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AE77568,0000131 -19-01OCT15-1/1

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John Deere Service Literature Available

Technical Information

Technical information can be purchased from John Deere. Publications are available in print or CD-ROM format.

Orders can be made using one of the following:

- John Deere Technical Information Store:
www.JohnDeere.com/TechInfoStore
- Call 1-800-522-7448
- Contact your John Deere dealer

Available information includes:

- **PARTS CATALOGS** list service parts available for your machine with exploded view illustrations to help you identify the correct parts. It is also useful in assembling and disassembling.
- **OPERATOR'S MANUALS** providing safety, operating, maintenance, and service information.
- **TECHNICAL MANUALS** outlining service information for your machine. Included are specifications, illustrated assembly and disassembly procedures, hydraulic oil flow diagrams, and wiring diagrams. Some products have separate manuals for repair and diagnostic information. Some components, such as engines, are available in a separate component technical manual.
- **EDUCATIONAL CURRICULUM** including five comprehensive series of books detailing basic information regardless of manufacturer:
 - Agricultural Primer series covers technology in farming and ranching.
 - Farm Business Management series examines "real-world" problems and offers practical solutions in the areas of marketing, financing, equipment selection, and compliance.
 - Fundamentals of Services manuals show you how to repair and maintain off-road equipment.
 - Fundamentals of Machine Operation manuals explain machine capacities and adjustments, how to improve machine performance, and how to eliminate unnecessary field operations.
 - Fundamentals of Compact Equipment manuals provide instruction in servicing and maintaining equipment up to 40 PTO horsepower.



TS189 —UN—17JAN89



TS191 —UN—02DEC88



TS224 —UN—17JAN89



TS1663 —UN—10OCT87

DX,SERV LIT -19-21APR16-1/1

John Deere Service Keeps You On Job

John Deere Is At Your Service

CUSTOMER SATISFACTION is important to John Deere.

Our dealers strive to provide you with prompt, efficient parts and service:

- Maintenance and service parts to support your equipment.
- Trained service technicians and the necessary diagnostic and repair tools to service your equipment.



TS201 —UN—15APR13

CUSTOMER SATISFACTION PROBLEM RESOLUTION PROCESS

Your John Deere dealer is dedicated to supporting your equipment and resolving any problem you may experience.

1. When contacting your dealer, be prepared with the following information:

- Machine model and product identification number
- Date of purchase
- Nature of problem

2. Discuss problem with dealer service manager.

3. If unable to resolve, explain problem to dealership manager and request assistance.

4. If you have a persistent problem your dealership is unable to resolve, ask your dealer to contact John Deere for assistance. Or contact the Ag Customer Assistance Center at 1-866-99DEERE (866-993-3373) or e-mail us at www.deere.com/en_US/ag/contactus/.

DX,IBC,2 -19-02APR02-1/1

