



SELF

John Deere Harvest Identification, Cotton

OPERATOR'S MANUAL John Deere Harvest Identification, Cotton OMPFP11609 ISSUE L1 (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
North American Edition
PRINTED IN U.S.A.



OMPFP11609

Introduction

www.StellarSupport.com

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 and Quick Reference Guide prior to operation. To obtain a copy, see your dealer or visit www.StellarSupport.com

OUO6050,0000FB1 -19-10AUG10-1/1

Foreword

WELCOME TO THE GreenStar™ System offered by John Deere.

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

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your system and should remain with the system 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 of forward travel.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the Specification or Identification Numbers section.

GreenStar is a trademark of Deere & Company

Accurately record all the numbers to help in tracing the components should it be stolen. Your dealer also needs these numbers when you order parts. File the identification numbers in a secure place off the machine.

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 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.

JS56696,00007CC -19-04MAR10-1/1

Contents

	Page
Safety	
Recognize Safety Information	05-1
Understand Signal Words.....	05-1
Follow Safety Instructions.....	05-1
Practice Safe Maintenance.....	05-2
Handle Electronic Components and Brackets Safely	05-2
Introduction	
Theory of Operation.....	10-1
System Requirements	10-1
Activating Harvest Identification, Cotton.....	10-1
Machine Compatibility	10-1
System Components	
Harvest Identification, Cotton Components	15-1
GreenStar Display	15-1
Application Controller 1120.....	15-2
RFID Reader	15-2
Setup	
Setup Requirements.....	20-1
Baud Rate Setup	20-1
Setup Harvest Identification, Cotton	20-2
Setup Harvest Identification, Cotton on Home Page	20-3
Operation	
Viewing Harvest Identification, Cotton Information	25-1
Recording	25-2
Exporting Module ID File	25-3
Accessing Module ID File	25-4
Opening Module ID File in Spreadsheet Program	25-4
Deleting Module ID File	25-5
Troubleshooting	
Troubleshooting	30-1

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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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.



T81388 —UN—07DEC88

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

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.



▲ WARNING

▲ CAUTION

TS187 —19—30SEP88

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

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.



TS201 —UN—23AUG88

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

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

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

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

Introduction

Theory of Operation

John Deere Harvest Identification, Cotton automatically records module information and eliminates the need to manually tag and document each module. John Deere Harvest Identification, Cotton uses RFID tags in the module wrap to track information such as Module

ID, Module Serial Number, Date, Time, Gin Client ID, Farm, Field, Variety, and Machine Serial Number. The information is recorded and stored in a file on the display so that it can be used for module tracking, yield calculation, and can be provided to the cotton gin.

BA31779,0000290 -19-01DEC11-1/1

System Requirements

Harvest Identification, Cotton Functional Requirements:

- GS2 2600 or GS3 2630 display
- Application Controller 1120 installed on machine

- Factory Installed RFID reader
- Harvest ID, Cotton Activation on Application Controller 1120
- Application Controller 1120 harness
- StarFire Receiver (optional but recommended for functionality)

BA31779,00002F6 -19-02DEC11-1/1

Activating Harvest Identification, Cotton

To run Harvest ID, Cotton on the Application Controller 1120 a 26 digit activation code is required.

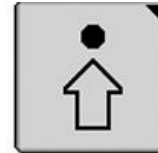
1. Visit www.StellarSupport.com or call 1-888-953-3373.
2. Using the controller serial number and the COMAR order number, a 26 digit activation code will be generated.
3. On the display, select APPLICATION CONTROLLER 1120 softkey from the main menu.
4. Select SETUP softkey.
5. Select ACTIVATION ENTRY (A) button.
6. Enter 26 digit code.

PC14177 —UN—04NOV11



APPLICATION CONTROLLER 1120

PC12961 —UN—29AUG11



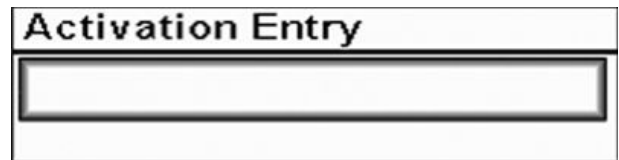
SETUP Softkey

PC13507 —UN—29AUG11



ACTIVATION ENTRY Button

PC13508 —UN—29AUG11



ACTIVATION ENTRY Screen

BA31779,0000291 -19-02DEC11-1/1

Machine Compatibility

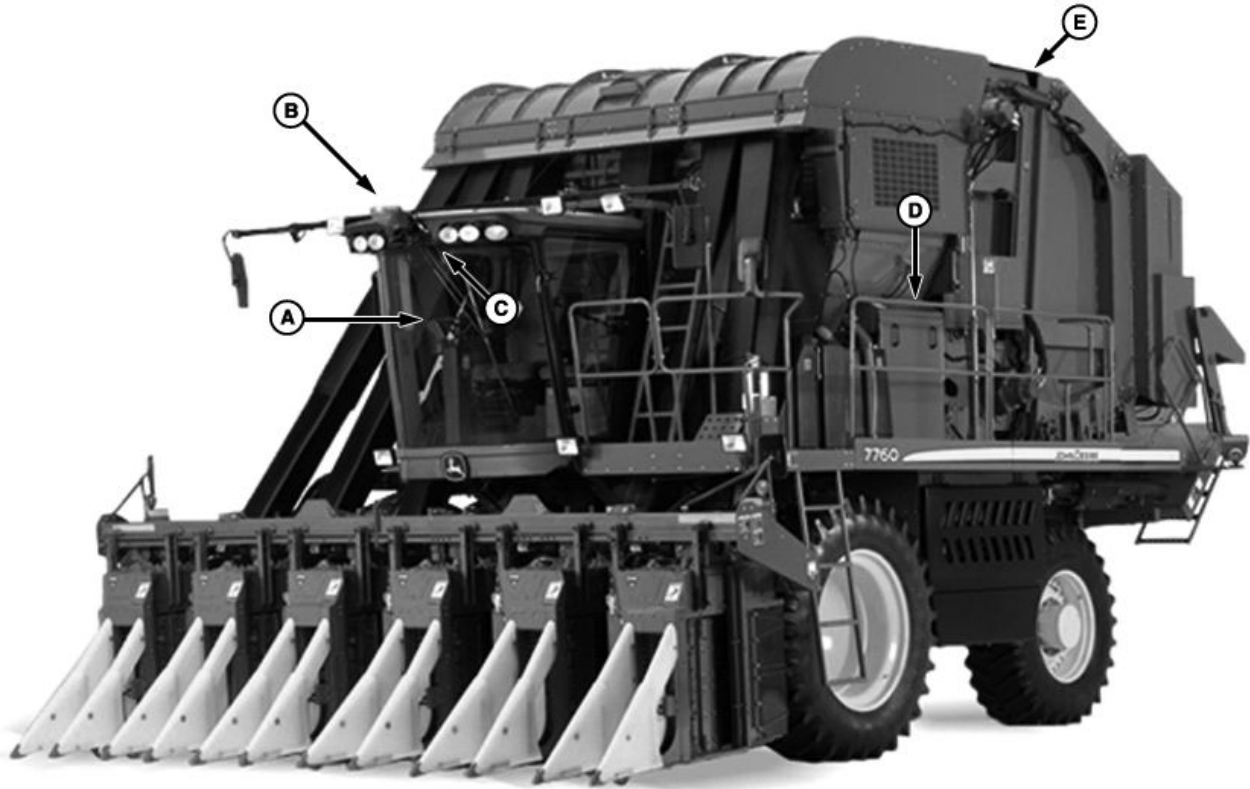
Cotton Picker:

- 7760
 - Model Year 2008—2011
 - Model Year 2012 and newer

BA31779,0000293 -19-21NOV11-1/1

System Components

Harvest Identification, Cotton Components



A—Display
B—StarFire Receiver

C—Application Controller 1120
model year 2008-2011
D—Application Controller 1120
model year 2012 and newer

E—RFID Reader

PC14023—UN—28SEP11

BA31779,000027E -19-21NOV11-1/1

GreenStar Display

Harvest ID, Cotton is compatible with the following displays:

- GS2 2600
- GS3 2630



GreenStar2 2630 Display

PC13407—UN—20APR11

BA31779,000027F -19-02DEC11-1/1

Application Controller 1120

- Model year 2008 - 2011 — Application Controller 1120 is located in cab headliner.

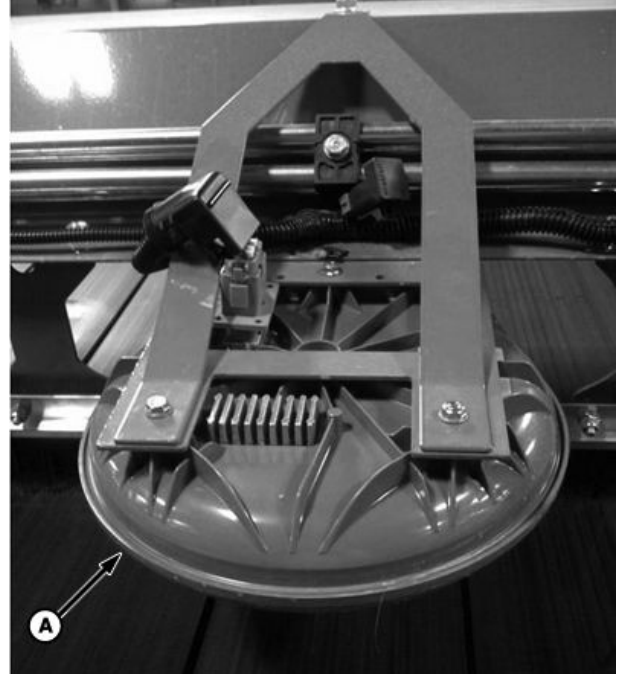
- Model year 2012 and newer — Application Controller 1120 mounted near baler controller.

BA31779,0000280 -19-29NOV11-1/1

RFID Reader

The factory installed RFID Reader reads the RFID tags embedded in the module wrap. The tags are read while the round module is being wrapped.

A—RFID Reader



PC14077 —UN—10OCT11

BA31779,000029B -19-21NOV11-1/1

Setup

Setup Requirements

- Application Controller hardware installation complete.
- Harvest ID, Cotton activated on Application Controller.
- Current display software update.
- Harvest ID, Cotton setup is complete.

BA31779,0000295 -19-02DEC11-1/1

Baud Rate Setup

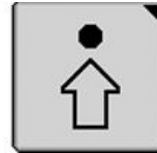
1. Select APPLICATION CONTROLLER button.
2. Select SETUP softkey.
3. Select 4800 for the Baud Rate from drop-down menu (A).

A—Baud Rate

PC14177 —UN—04NOV11



PC12961 —UN—29AUG11



SETUP Softkey



PC14074 —UN—21NOV11

BA31779,0000296 -19-21NOV11-1/1

Setup Harvest Identification, Cotton

Operator enters information required by gin. The setup page can be configured onto the home page for easy updating.

1. Select MAIN MENU softkey
2. Select APPLICATION CONTROLLER 1120
3. Select SETUP MENU button
4. Select HARVEST ID, COTTON SETUP
5. Enter setup information

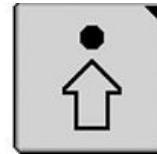
A—Gin Client ID
B—Farm
C—Field

D—Variety
E—Machine Serial Number

PC14177 —UN—04NOV11



PC12961 —UN—29AUG11



SETUP Softkey

Harvest ID, Cotton Setup	
Gin Client ID	<input type="text"/> (A)
Farm	<input type="text"/> (B)
Field	<input type="text"/> (C)
Variety	<input type="text"/> (D)
Machine SN	<input type="text"/> (E)

PC14070 —UN—28OCT11

Continued on next page

BA31779,00002E9 -19-02DEC11-1/2

Harvest Identification, Cotton

No Setup Data Entered

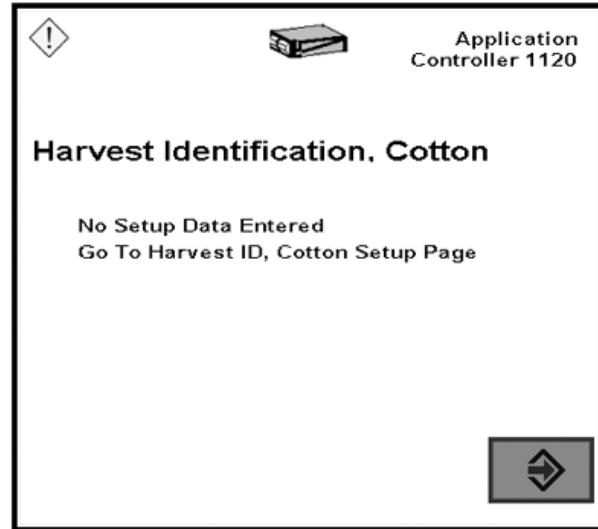
Go to Harvest ID, Cotton Setup Page

No Client, Farm, and Field information was entered for Harvest ID, Cotton. The columns for Gin Client ID, Farm, Field, Variety, and Machine Serial Number will be recorded as zero in the Module ID File until Gin Client ID, Farm, Field Variety, and Machine Serial Number have been entered. To enter information for Harvest ID, Cotton, go to MENU softkey >> APPLICATION CONTROLLER 1120 >> SETUP MENU >> HARVEST ID, COTTON SETUP.

NOTE: Data cannot be unloaded into Apex™.

This information will have to be manually entered under the Application Controller and will not be carried over from what is entered under GreenStar documentation.

Apex is a trademark of Deere & Company



PC14133 —UN—21NOV11

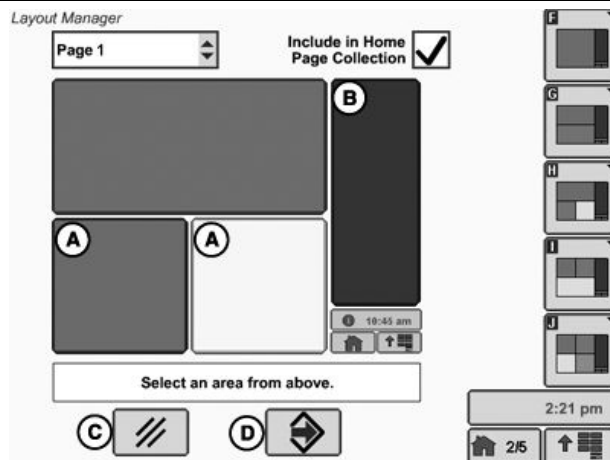
BA31779,00002E9 -19-02DEC11-2/2

Setup Harvest Identification, Cotton on Home Page

Harvest ID, Cotton information can be displayed at various locations on the Home Page, but only configurable on the Quarter screen (A) and Softkey regions (B) of the Home Page. To learn more about setting up different areas of the screen, see the Layout Manager section in the display's operator's manual.

1. Select MAIN MENU > LAYOUT MANAGER.
2. Select desired Home Page region (A or B) .
3. Select the APPLICATION CONTROLLER 1120.
4. Select Harvest ID, Cotton section.
5. Select the ENTER button (D) to complete setup.

A—Quarter Section **C**—Cancel Button
B—Softkey Section **D**—Enter Button



PC14015 —UN—01SEP11

BA31779,00002EA -19-02DEC11-1/1

Operation

Viewing Harvest Identification, Cotton Information

Harvest ID, Cotton displays OK in the Status window when it is activated.

Harvest ID, Cotton information can be viewed on the Application Controller 1120 page or setup and viewed on a home page section.

Module Counts

The module counts can be used to track total module count for the day, per field, per farm, per client, per operator, per variety, or the overall count for the season.

Each automatic module wrap increments the module count (B and C) and the last serial number recorded (D) is shown on the display.

Module counts 1 and 2 are both resettable numbers. They can be reset to zero to begin a new count or they can be reset to the desired value on the Harvest ID, Cotton main page or on the home page. Module Count 2 (C) is the only count that is recorded in the Module ID file.

A—Status
B—Module Count 1

C—Module Count 2
D—Module Serial Number

Harvest ID, Cotton Setup		Harvest ID, Cotton Main	
Gin Client ID		Status (A)	Ok
Farm		Module Count 1 (B)	0
Field		Module Count 2 (C)	0
Variety		Module SN (D)	No SN No Module ID
Machine SN		File Server Ready	Wait for Module

Harvest ID, Cotton Main	
Status (A)	Ok
Module Count 1 (B)	0
Module Count 2 (C)	0
Module SN (D)	No SN No Module ID

BA31779,000029C -19-02DEC11-1/1

PC14075 —UN—28OCT11

PC14071 —UN—28OCT11

Recording

Harvest ID, Cotton records the data to the Module ID file once the automatic module wrap cycle has been completed. Harvest ID, Cotton records the following in the Module ID File.

- Module ID
- Module Serial Number
- Latitude and Longitude
- GMT Date
- GMT Time
- Tag Count
- Gin Client ID
- Farm
- Field
- Variety
- Machine Serial Number
- Module Count 2
- Moisture
- Diameter and Weight

The purpose of recording this information is for Module Tracking, yield calculation and to provide to Gin for easier receiving processes.

NOTE: Module Count 2 is the only count that is recorded in the Module ID file.

NOTE: Moisture, Diameter, and Weight values are for future functionality and are recorded as zeros.

In order to use this recording function these prerequisites must be met.

- Application Controller must be communicating on the CAN BUS.
- Harvest ID, Cotton must be activated.

The Module ID File that is created using Harvest ID, Cotton is to:

- **2630 Display** — GS3_2630\\RCD Folder\File Server Folder
- **2600 Display** — RCD folder\File Server folder for 2600 displays.

The file can be located in the folder in the following format:

- ModuleID<AC1120 Serial Number>.txt

NOTE: The Module ID file is created in .txt (text) file format.

Exporting Module ID File

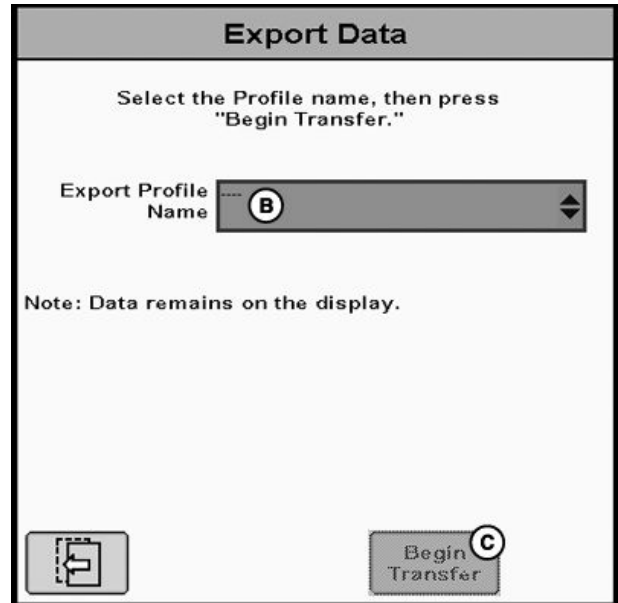
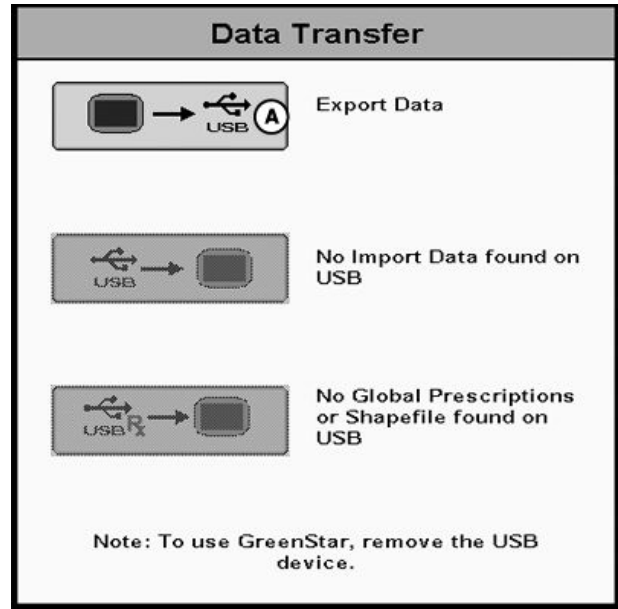
GS3 2630

1. Insert USB drive to GS3 2630 display.
2. After USB is detected, GS3 2630 display will automatically change screens to Data Transfer screen. Selecting Export Data softkey (A).
3. Select or enter an Export Profile Name (B).
4. Select Begin Transfer (C).

NOTE: This will not delete the file. If the file is not deleted, once harvesting commences again, it will keep appending to the existing file.

A—Export Data
B—Export Profile Name

C—Begin Transfer



Continued on next page

BA31779,00002ED -19-29NOV11-1/2

PC14199—UN—17NOV11

PC14199—UN—17NOV11

GS2 2600

1. Open card slot door.
2. Wait for message stating data card can be ejected.
3. Press the eject button located directly below the card slot inside the card slot door.
4. The data card will pop out enough to grab it with your fingers and remove it from the card slot.

A—Data Card



Data Card in Display

PC8865—UN—02NOV05

BA31779.00002ED -19-29NOV11-2/2

Accessing Module ID File

GS3 2630

1. Connect USB drive to computer.
2. Open USB folder.
3. Open GS3_2630 folder.
4. Open exported profile name folder.
5. Open RCD folder.
6. Open File Server folder.
7. Save Module ID file to computer hard drive.

NOTE: File Server folder located on the root of USB will NOT contain Module ID file.

GS2 2600

1. Connect 2600 data card to computer.
2. Open data card folder.
3. Open RCD folder.
4. Open File Server folder.
5. Save Module ID file to computer hard drive.

BA31779.00002F7 -19-29NOV11-1/1

Opening Module ID File in Spreadsheet Program

The Module ID File can be opened and read by most electronic spreadsheet programs. General instructions for opening are:

1. On the file menu, select Open.

2. Choose Text Files (*.txt) from the Files of Type drop-down.
3. Navigate through the folders. When the Module ID File is found, double-click it to open. The text appears in the document display window.

BA31779.00002F8 -19-29NOV11-1/1

Deleting Module ID File

PC8663 —UN—05AUG05

GS3 2630

The Module ID file can be deleted from the GS3 2630 display.

1. Select Menu
2. Select GS3.
3. Select GS3 softkey.
4. Select Memory Tab (A).
5. Select Erase Data (B).

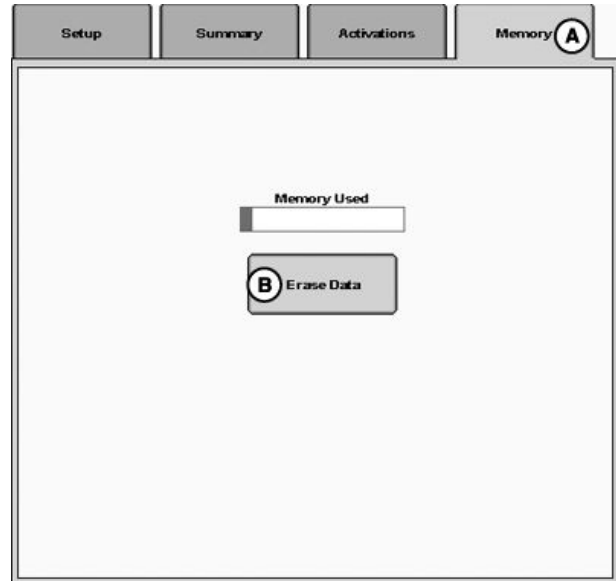
A—Memory Tab

B—Erase Data



MENU button

PC12685 —UN—14JUL10



PC14200 —UN—17NOV11

Continued on next page

BA31779,00002EF -19-29NOV11-1/2

6. Select Documentation Data (A) or All Data (B).

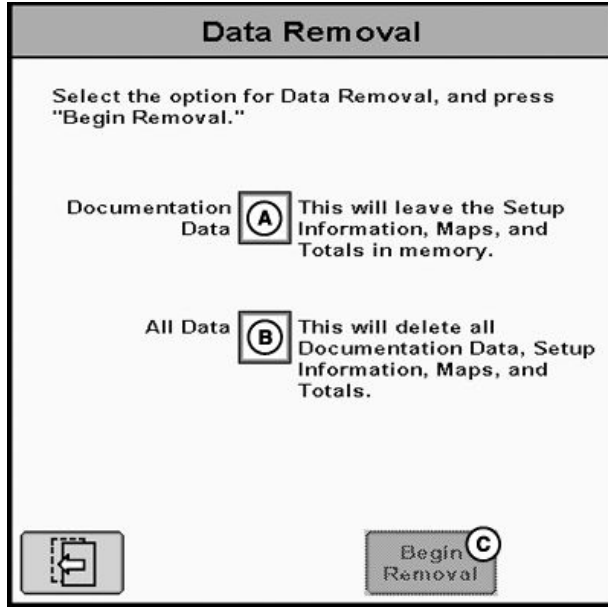
NOTE: Both Documentation Data (A) and All Data (B) will remove the Module ID file and all other selected data from display. It is recommended to export data before deleting any information off of the display. A new Module ID file will then be created when harvesting starts again.

7. Select Begin Removal (C).

GS2 2600

The Module ID file can only be deleted from a computer.

1. Insert 2600 data card into computer.
2. Open data card folder.
3. Open RCD Folder.
4. Open File Server Folder.
5. Save Module ID file to computer hard drive.
6. Delete Module ID file off of data card.



A—Documentation Data
B—All Data

C—Begin Removal

PC14201 —UN—17NOV11

BA31779,00002EF -19-29NOV11-2/2

Troubleshooting

Troubleshooting

Communication Error

Communication with an application's electronic control unit has been unexpectedly lost. If reprogramming is not in process, check the harness connections - disconnect and reconnect the controller. If the problem persists, consult the dealer for this controller. The controller can be identified by the following manufacturer information:

If this communication error occurs check for correct installation and that connection points are correct and tight contact your local John Deere Dealer for support.

Module ID File is not being created or updating on card or USB

Communication with the Application Controller may have been lost, check for correct installation and that connection points are correct and tight. If the CAN BUS is down the file will not be created or updated.

Module Count is incorrect on the file

The Module Count is resettable by the operator. Reset the Module Count to the desired value on the Harvest ID, Cotton Main page to begin a new count.

Cannot open Module ID File

File Server may be corrupt. Power loss may have occurred while the data transfer was in progress. Export data from the display again.

Information is missing from the Module ID file

- Gin Client ID, Farm, Field, Variety, or Machine Serial Number values are replaced with zeros. Harvest ID, Cotton is not setup correctly, return to Harvest ID, Cotton setup page and manually enter values.



- Module ID, Module Serial Number, Module Count 2, and Tag Count Module ID values are replaced with zeros. The RFID Reader is not functioning properly. Check connections to RFID Reader and contact your local John Deere Dealer for support.
- GMT Date, GMT Time, Latitude and Longitude values are replaced with zeros. The StarFire Receiver is not functioning properly. Check StarFire Receiver has clear view of sky, connections to StarFire Receiver, and contact your local John Deere Dealer for support.

To prevent debris build up near the RFID Reader please adhere to the 6 hour interval cleaning and inspection recommendation.

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PC14095—UN—06OCT11

Index

	Page		Page
A			
Accessing Module ID File	25-4		
GS2 2000	25-4		
GS3 2630	25-4		
Activating Harvest Identification, Cotton	10-1		
Application Controller 1120	15-2		
B			
Baud Rate	20-1		
C			
Components	15-1		
D			
Deleting Module ID File	25-5		
GS2 2600	25-6		
GS3 2630	25-5		
E			
Exporting Module ID File	25-3		
GS2 2600	25-4		
GS3 2630	25-3		
F			
Functional requirements	10-1		
G			
GreenStar Display	15-1		
H			
Hardware	10-1		
Harvest Identification, Cotton Setup	20-2		
Home Page Setup	20-3		
L			
Layout Manager	20-3		
O			
Operating requirements	10-1		
R			
Recording	25-2		
Requirements	10-1		
RFID Reader	15-2		
		S	
		Setup	
		Baud Rate	20-1
		Harvest Identification, Cotton	20-2
		Home Page	20-3
		Requirements	20-1
		Setup Requirements	20-1
		T	
		Theory of Operation	10-1
		V	
		Viewing Harvest Identification, Cotton Information	25-1

John Deere Service Literature Available

Technical Information

Technical information can be purchased from John Deere. Some of this information is available in electronic media, such as CD-ROM disks, and in printed form. There are many ways to order. Contact your John Deere dealer. Call **1-800-522-7448** to order using a credit card. Search online from <http://www.JohnDeere.com>. Please have available the model number, serial number, and name of the product.

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. These manuals and safety signs on your machine may also be available in other languages.
- **OPERATOR'S VIDEO TAPES** showing highlights of safety, operating, maintenance, and service information. These tapes may be available in multiple languages and formats.
- **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 separate component technical manuals
- **FUNDAMENTAL MANUALS** detailing basic information regardless of manufacturer:
 - Agricultural Primer series covers technology in farming and ranching, featuring subjects like computers, the Internet, and precision farming.
 - 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.



TS189 —UN—17JAN89



TS191 —UN—02DEC88



TS224 —UN—17JAN89



TS1663 —UN—10OCT97

DX.SERVLIT -19-31JUL03-1/1

John Deere Service Keeps You on The 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.



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/.

TS201 — UN—23AUG88

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

