

AutoTrac™ RowSense™ and AutoTrac™ Vision (North American Edition)



JOHN DEERE

OPERATOR'S MANUAL

AutoTrac™ RowSense™ and AutoTrac™ Vision

OMKK26405 ISSUE F0 (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 Des Moines Works

Printed in USA

Introduction

Foreword

READ THIS MANUAL carefully to learn how to operate the 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 the machine will travel when going forward.

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 GreenStar hardware 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 system be abused or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied.

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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.*

Safety

Recognize Safety Information



T81389—UN—28JUN13

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

Follow Safety Instructions



TS201—UN—15APR13

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

Understand Signal Words



▲ WARNING

▲ CAUTION

TS187—19—30SEP88

DANGER; The signal word DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING; The signal word WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION; The signal word CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. CAUTION may also be used to alert against unsafe practices associated with events which could lead to personal injury.

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.

DX,SIGNAL-19-05OCT16

Practice Safe Maintenance



TS218—UN—23AUG88

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 away 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.

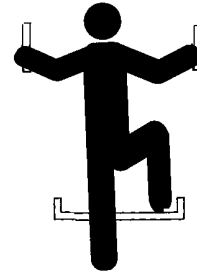
On self-propelled equipment, disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

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

Falling while cleaning or working at height can cause serious injury. Use a ladder or platform to easily reach each location. Use sturdy and secure footholds and handholds.

DX,SERV-19-28FEB17

Use Steps and Handholds Correctly



T133468—UN—15APR13

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.

DX,WW,MOUNT-19-12OCT11

Handle Electronic Components and Brackets Safely



TS249—UN—23AUG88

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.

DX,WW,RECEIVER-19-24AUG10

Use Electronic Display Properly

Electronic Displays are secondary devices intended to

aid the operator in performing field operations, increase comfort and provide entertainment. Displays can 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 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.

RR94114,0001FFA-19-18DEC14

Operate Guidance Systems Safely

Do not use guidance systems on roadways. Always turn off (disable) guidance systems before entering a roadway. Do not attempt to turn on (activate) a guidance system while transporting on a roadway.

Guidance systems are intended to aid the operator in performing field operations more efficiently. The operator is always responsible for the machine path. Guidance systems do not automatically detect or prevent collisions with obstacles or other machines.

Guidance Systems include any application that automates machine steering. This includes, but may not be limited to, AutoTrac™, iGuide™, iTEC™ Pro,

AutoTrac™ Turn Automation, AutoTrac™ Universal (ATU), RowSense™, and Machine Sync.

To prevent injury to the operator and bystanders:

- Never get on or off a moving machine.
- Verify the machine, implement, and guidance system are set up correctly.
 - If using iTEC™ Pro or AutoTrac™ Turn Automation, verify accurate boundaries have been defined.
 - If using Machine Sync, verify the follower's home point is calibrated with sufficient space between the machines.
- Remain alert and pay attention to the surrounding environment.
- Take control of the steering wheel, when necessary, to avoid field hazards, bystanders, equipment, or other obstacles.
- Stop operation if poor visibility conditions impair your ability to operate the machine or identify people or obstacles in the machine path.
- Consider field conditions, visibility, and machine configuration when selecting machine speed.

JS56696,0000ABC-19-20DEC17

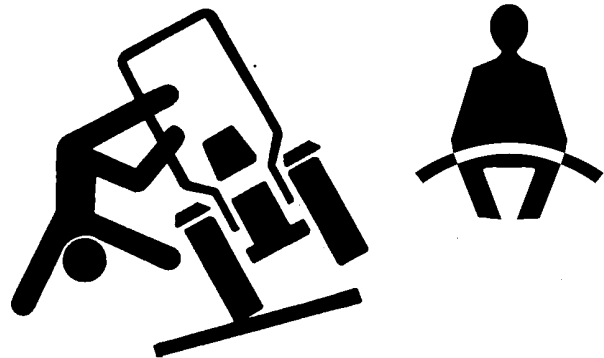
Read The Guidance Manual

Before attempting to operate AutoTrac™, fully read the Guidance manual to understand components and procedures required for safe and proper operation.

The Guidance manual is for AutoTrac™ guidance systems applications.

OUC002,0004251-19-07JAN15

Use Seat Belt Properly



TS1729—UN—24MAY13

Avoid crushing injury or death during rollover.

- Hold the latch and pull the seat belt across the body.
- Insert the latch into the buckle. Listen for a click.

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AutoTrac is a trademark of Deere & Company
iGuide is a trademark of Deere & Company
iTEC is a trademark of Deere & Company

- Tug on the seat belt latch to make sure that the belt is securely fastened.
- Snug the seat belt across the hips.

Replace entire seat belt if mounting hardware, buckle, belt, or retractor show signs of damage.

Inspect seat belt and mounting hardware at least once a year. Look for signs of loose hardware or belt damage, such as cuts, fraying, extreme or unusual wear, discoloration, or abrasion. Replace only with replacement parts approved for your machine. See your John Deere dealer.

OJ06092,00009E7-19-26OCT15

Read Operator's Manuals for ISOBUS Controllers

In addition to GreenStar™ Applications, this display can be used as a display device for any ISOBUS Controller that meets ISO 11783 standard. This includes capability to control ISOBUS implements. When used in this manner, information and control functions placed on the display are provided by the ISOBUS Controller and are the responsibility of the ISOBUS Controller manufacturer. Some of these functions could pose a hazard to either the operator or a bystander. Read the Operator's Manual provided by the ISOBUS Controller manufacturer and observe all safety messages in manual and on ISOBUS Controller product prior to use.

NOTE: ISOBUS refers to the ISO Standard 11783

DX,WW,ISOBUS-19-15JUL15

Avoid Backover Accidents



PC10857XW—UN—15APR13

Before moving machine, be sure that all persons are clear of machine path. Turn around and look directly for best visibility. Use a signal person when backing if view is obstructed or when in close quarters.

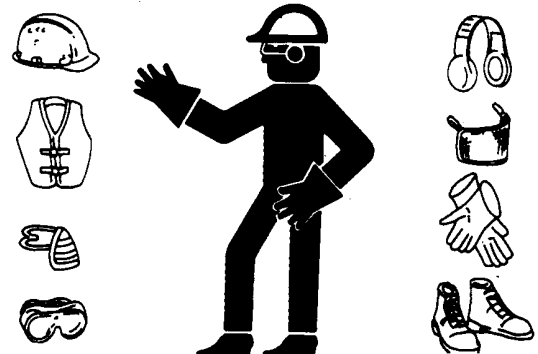
Do not rely on a camera to determine if personnel or obstacles are behind the machine. The system can be

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limited by many factors including maintenance practices, environmental conditions, and operating range.

DX,AVOID,BACKOVER,ACCIDENTS-19-30AUG10

Wear Protective Clothing



TS206—UN—15APR13

Wear close fitting clothing and safety equipment appropriate to the job.

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.

DX,WEAR-19-10SEP90

Operate Safely



N39547—UN—06OCT88

Never allow children on or near machine.

Before operating, make sure air has been bled from wing-fold hydraulic system.

Be sure area around machine is clear before raising or lowering machine frame or wings.

Do not operate close to a ditch or creek.

Do not operate with wings folded.

Slow down when turning and traveling over rough ground.

Always shut off tractor and shift to PARK or set brakes when leaving tractor. Remove key when leaving tractor unattended.

Always have tractor stopped on level ground when raising or lowering wings.

Operate machine from tractor seat only.

If chemicals are used, follow manufacturer's recommendations for handling and storage.

Tow machine behind a properly equipped tractor only.

JS56696,000065B-19-28JUL09

Read and Understand MSDS



TS1132—UN—15APR13

Direct exposure to hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with John Deere equipment include such items as lubricants, coolants, paints, and adhesives.

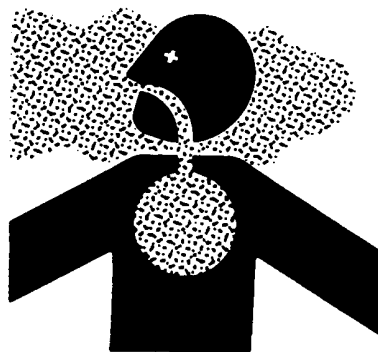
A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques.

Check the MSDS before you start any job using a hazardous chemical. That way you will know exactly what the risks are and how to do the job safely. Follow all recommended procedures.

(See your John Deere dealer for MSDS's on chemical products used with John Deere equipment.)

JS56696,0000661-19-28JUL09

Handle Agricultural Chemicals Safely



TS220—UN—15APR13



A34471

A34471—UN—11OCT88

Chemicals used in agricultural applications such as fungicides, herbicides, insecticides, pesticides, rodenticides, and fertilizers can be harmful to your health or the environment if not used carefully.

Always follow all label directions for effective, safe, and legal use of agricultural chemicals.

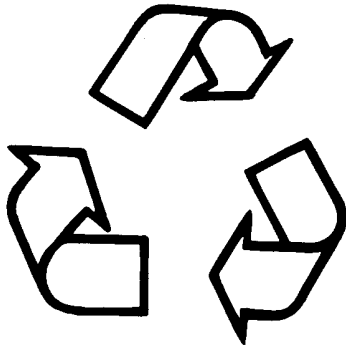
Reduce risk of exposure and injury:

- Wear appropriate personal protective equipment as recommended by the manufacturer. In the absence of manufacturer's instructions, follow these general guidelines:
 - Chemicals labeled **'Danger'**: Most toxic. Generally require use of goggles, respirator, gloves, and skin protection.
 - Chemicals labeled **'Warning'**: Less toxic. Generally require use of goggles, gloves, and skin protections.
 - Chemicals labeled **'Caution'**: Least toxic. Generally require use of gloves and skin protection.
- Avoid inhaling vapor, aerosol or dust.
- Always have soap, water, and towel available when working with chemicals. If chemical contacts skin, hands, or face, wash immediately with soap and water. If chemical gets into eyes, flush immediately with water.
- Wash hands and face after using chemicals and before eating, drinking, smoking, or urination.

- Do not smoke or eat while applying chemicals.
- After handling chemicals, always bathe or shower and change clothes. Wash clothing before wearing again.
- Seek medical attention immediately if illness occurs during or shortly after use of chemicals.
- Keep chemicals in original containers. Do not transfer chemicals to unmarked containers or to containers used for food or drink.
- Store chemicals in a secure, locked area away from human or livestock food. Keep children away.
- Always dispose of containers properly. Triple rinse empty containers and puncture or crush containers and dispose of properly.

DX,WW,CHEM01-19-24AUG10

Decommissioning — Proper Recycling and Disposal of Fluids and Components



TS1133—UN—15APR13

Safety and environmental stewardship measures must be taken into account when decommissioning a machine and/or component. These measures include the following:

- Use appropriate tools and personal protective equipment such as clothing, gloves, face shields or glasses, during the removal or handling of objects and materials.
- Follow instructions for specialized components.
- Release stored energy by lowering suspended machine elements, relaxing springs, disconnecting the battery or other electrical power, and releasing pressure in hydraulic components, accumulators, and other similar systems.
- Minimize exposure to components which may have residue from agricultural chemicals, such as fertilizers and pesticides. Handle and dispose of these components appropriately.
- Carefully drain engines, fuel tanks, radiators, hydraulic cylinders, reservoirs, and lines before recycling components. Use leak-proof containers when draining fluids. Do not use food or beverage containers.
- Do not pour waste fluids onto the ground, down a drain, or into any water source.
- Observe all national, state, and local laws, regulations, or ordinances governing the handling or disposal of waste fluids (example: oil, fuel, coolant, brake fluid); filters; batteries; and, other substances or parts. Burning of flammable fluids or components in other than specially designed incinerators may be prohibited by law and could result in exposure to harmful fumes or ashes.
- Service and dispose of air conditioning systems appropriately. Government regulations may require a certified service center to recover and recycle air conditioning refrigerants which could damage the atmosphere if allowed to escape.
- Evaluate recycling options for tires, metal, plastic, glass, rubber, and electronic components which may be recyclable, in part or completely.
- Contact your local environmental or recycling center, or your John Deere dealer for information on the proper way to recycle or dispose of waste.

DX,DRAIN-19-01JUN15

FCC Notifications To User

Federal Communications Commission Notifications to User

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.

These devices must be operated as supplied by John Deere Ag Management Solutions. Any changes or modifications made to these devices without the express written approval of John Deere Ag Management Solutions may void the user's authority to operate these devices.

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 to 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.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.

RW00482,0000558-19-23SEP15

Display and AutoTrac™ Configuration

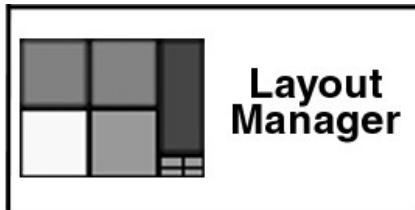
Display Setup



Menu Button

PC8663—UN—29APR15

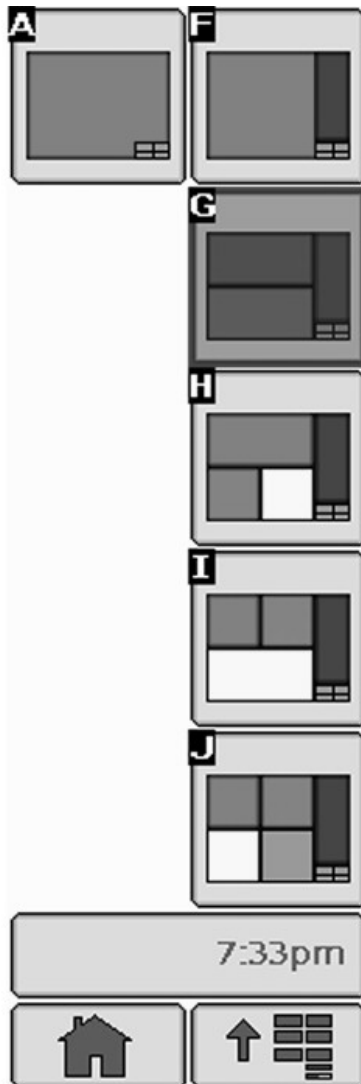
1. Select menu button.



Layout Manager Button

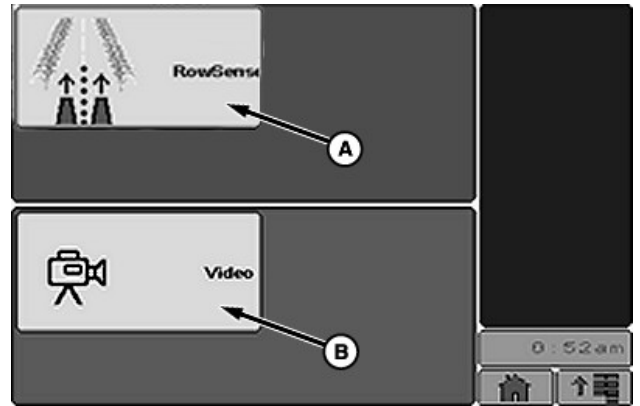
PC8656—UN—17NOV05

2. Select layout manager button.



PC8870—UN—17NOV05

3. Select softkey G for split screen configuration.



N116838—UN—05JAN16

A—Sprayer RowSense™ Button
B—Video Button

4. Press the red portion of display and select sprayer RowSense™ button (A).
5. Press the green portion of display and select video button (B).
6. Press home button to view configured screen.

BN55050,000019F-19-20APR18

AutoTrac™ Setup

Operate Guidance Systems Safely

Read and understand Operate Guidance Systems Safely in the Safety section.

AutoTrac™ System

General Information

IMPORTANT:

AutoTrac™ system relies on Global Positioning System (GPS) operated by the United States government, which is solely responsible for its accuracy and maintenance. System is subject to changes that could affect accuracy and performance of all GPS equipment.

Operator must maintain responsibility for the machine and must turn at end of each track. This system will not turn at end of a track unless equipped with iTEC™ Pro.

AutoTrac™ basic system is intended to be used as an assistance tool to mechanical markers. Operator must evaluate overall system accuracy to determine specific field operations where assisted steering can be used. This evaluation is necessary because accuracy required for various field operations can differ depending on farming operation. Because AutoTrac™ uses StarFire™

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AutoTrac is a trademark of Deere & Company
iTEC is a trademark of Deere & Company
StarFire is a trademark of Deere & Company*

differential correction network along with GPS, slight shifts in position can occur over time.

AutoTrac™ Accuracy— Overall AutoTrac™ system accuracy is dependent upon many variables. Equation looks like:

AutoTrac™ System Accuracy = Signal accuracy + Vehicle Setup + Implement Setup + Field/Soil Conditions.

It is very important to remember:

- Receiver has to go through a warm-up period after starting.
- Vehicle is set up properly (for example: Ballasted according to the vehicle operator manual).
- Understand how field/soil conditions affect system (loose soil requires more steering than firm soil, but firm soil can cause uneven draft loads).

Status Pie

IMPORTANT: Although AutoTrac™ system can be activated when SF2 (or SF1 if using AutoTrac™ SF1 activation) correction signal is confirmed, system accuracy may continue to increase after powering up system.

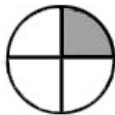
AutoTrac™ SF2 activation operates on SF1, SF2, or RTK signal.

AutoTrac™ SF1 activation operates on SF1 signal only.

NOTE: Status pie and steer icon will not be displayed if no SSU or AutoTrac™ Activation is detected.

AutoTrac™ icon has four stages as shown in **AutoTrac™ Status Pie**

- INSTALLED
- CONFIGURED
- ENABLED
- ACTIVATED

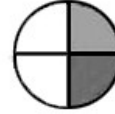


Stage 1—INSTALLED

PC8832—UN—25OCT05

Stage 1 INSTALLED (1/4 of pie)—SSU and all other hardware necessary for use are installed.

- SSU is detected



Stage 2—CONFIGURED

PC8833—UN—25OCT05

Stage 2 CONFIGURED (2/4 of pie)—Tracking Mode has been determined. A valid Track 0 has been established. Correct StarFire™ signal level for AutoTrac™ activation is selected. Vehicle conditions met.

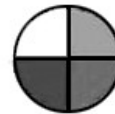
- Guidance system has been turned ON in display.
- Guidance Track 0 has been defined.
- AutoTrac™ Activation detected.
- StarFire™ signal is present.
- SSU has no active faults pertaining to the steering function.
- Hydraulic oil warmer than minimum temperature.
- Speed is less than maximum.
- TCM message is available and valid.
- In proper operating gear.



Steer On-Off

PC8836—UN—25OCT05

Steer On-Off— Press the steer on-off button to move AutoTrac™ from CONFIGURED stage to ENABLED stage.



Stage 3—ENABLED

PC8834—UN—25OCT05

Stage 3 ENABLED (3/4 of pie)—Steer Icon has been pressed. All conditions are met for AutoTrac™ to operate and system is ready to be activated.

- Select Steer on-off button once to turn “Steer On”

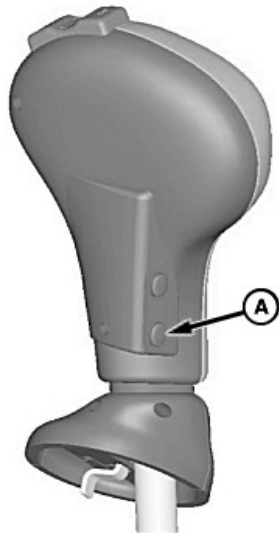


Stage 4—ACTIVATED

PC8835—UN—25OCT05

Stage 4 ACTIVATED (4/4 of pie with “A”)—Resume switch has been pressed and AutoTrac™ is steering vehicle.

- Press Resume Switch—AutoTrac™ has been activated

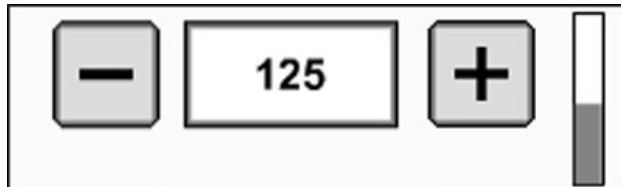


PC7989—UN—04NOV03

A—Resume Switch

Resume Switch— Press Resume Switch (A) to move AutoTrac™ from ENABLED stage to ACTIVATED stage. Picture shows where Resume Switch can be found on sprayers.

Steering Sensitivity



PC8852—UN—30OCT05

Steer Sensitivity

To adjust steering sensitivity select input box and enter desired steering sensitivity value via numeric keypad and select enter button. Sensitivity can also be adjusted up or down by selecting + or – buttons on either side of steer sensitivity input box.

NOTE: Valid range for steer sensitivity is 50-200 with 200 being the most aggressive setting.

User Adjustable Steering Sensitivity—steering sensitivity is aggressiveness of the AutoTrac™ steering system. A high steering sensitivity setting is more aggressive to allow system to handle tough manual steering conditions. A low steering sensitivity setting is less aggressive to allow system to handle higher speeds.

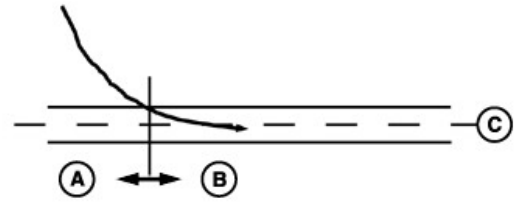


Figure A

PC8848—UN—30OCT05

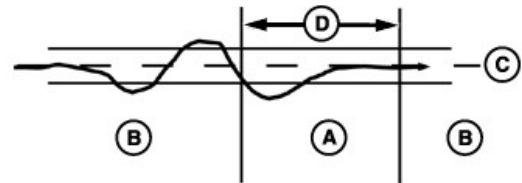


Figure B

PC8849—UN—30OCT05

- A—Default Gain
- B—Entered Steering Gain
- C—Track
- D—2.5 seconds

Steering sensitivity is only applied after machine is within 0.5 m (1.6 ft) of track, as shown in Figure A. Therefore, adjusting steering sensitivity does not change line acquisition performance.

Steering sensitivity is momentarily reduced if machine front wheel and heading oscillations become too large, as shown in Figure B. This event can be observed when implement is raised at start or end of row transitions. If this event is observed while implement is activated, sensitivity level is too high (see Steering Sensitivity).

BN55050,00001A0-19-20APR18

AutoTrac™ Vision Setup

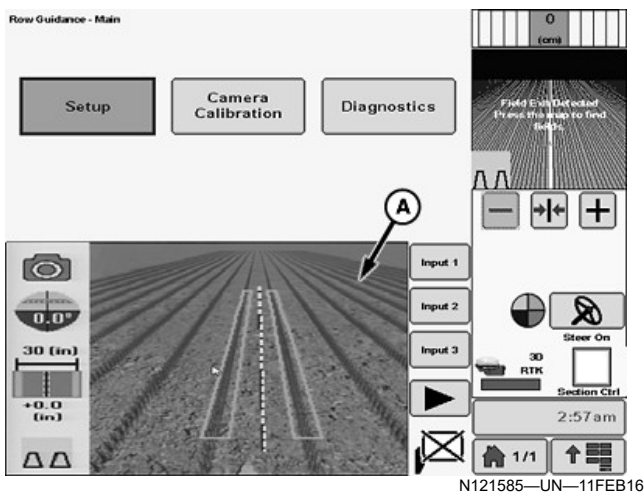
Theory of Operation

CAUTION: Do not use AutoTrac™ Vision system on roadways. Always turn off (disable) AutoTrac™ Vision system before entering a roadway. Do not attempt to turn on (activate) AutoTrac™ Vision system while transporting on a roadway.

When system is activated, stay alert and pay attention to surrounding environment. Take control of steering when necessary to avoid field hazards, bystanders, equipment, or other obstacles. To operate and steer machine safely, stop operation if poor visibility conditions impair your ability.

IMPORTANT: The AutoTrac™ Vision system is intended to aid operator in performing field operations more efficiently. Operator is always responsible for the machine path and must continue to pay attention to the surrounding environment while operating machine. To identify people or obstacles in the machine path, stop operation if poor visibility conditions impair your ability.

Always operate machine from the operator's seat. Always use seat belt.



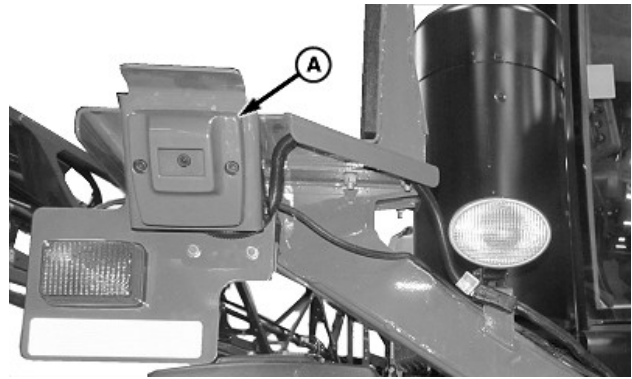
A—Vision Sensor Overlay View

NOTE: Vision sensor overlay view (A) displays as shown when machine is in well-defined crop rows and vision sensor has a confidence level of eight or higher. Other variations are possible depending on conditions.

AutoTrac™ Vision uses the following components:

- Integrated AutoTrac™ installed and activated on machine, with upgraded AutoTrac™ Vision software programmed into Steering System Unit (SBBC or SSU)

- AutoTrac™ RowSense™ activation



N135800—UN—27FEB18

A—AutoTrac™ Vision Sensor

- AutoTrac™ Vision Sensor (A) mounted to machine (contact your John Deere dealer)
- Guidance control unit installed to machine
- StarFire™ receiver with SF1, SF2, or RTK activation

AutoTrac™ Vision is an enhancement to integrated AutoTrac™ on the GreenStar™ 3 2630 Display. The vision sensor mounted to the machine looks for color differences between the crop and the ground to determine the location of the crop rows. Signals provided by the vision sensor are integrated with existing AutoTrac™ signals to help keep machine on rows. When there is no signal coming from the vision sensor (for example, driving through a waterway), normal GPS guidance applies if the operator has setup a guidance line.

Most other characteristics of AutoTrac™ remain unchanged. The vision sensor is simply another position input for steering the machine. All tracking modes are set up the same way as they are with GPS based AutoTrac™. Read and understand GreenStar™ display—Guidance Operator's Manual.

NOTE: Max tire width for row-crop is 380 mm (14.9 in) when operating in 762 mm (30 in) rows.

If machine has AutoTrac™ RowSense™, crop maturity and plant structure are susceptible to damage. Remove RowSense™ paddles to avoid crop damage.

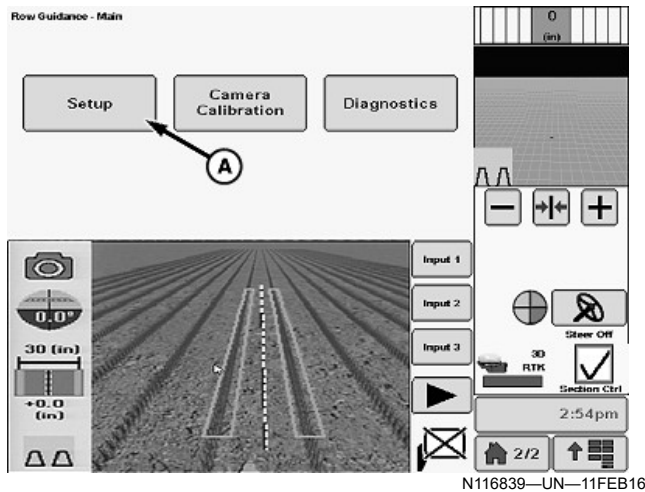
BN55050,00001A1-19-20APR18

AutoTrac™ Vision Setup

After the display has been configured and set up AutoTrac™ Vision.

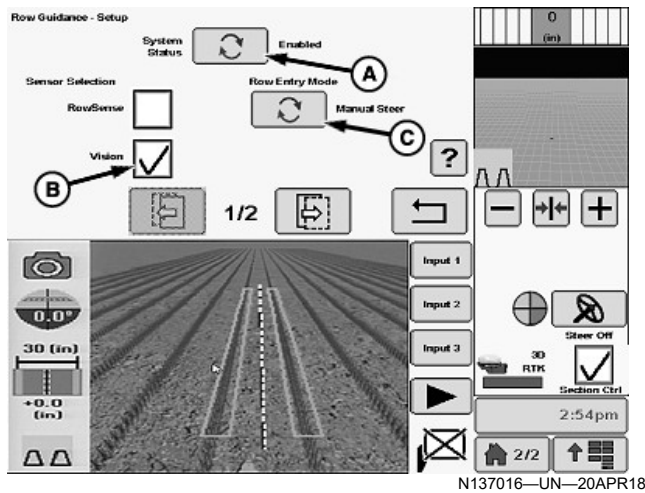
RowSense is a trademark of Deere & Company
StarFire is a trademark of Deere & Company
GreenStar is a trademark of Deere & Company

AutoTrac is a trademark of Deere & Company



A—Setup Button

1. Select setup button (A).

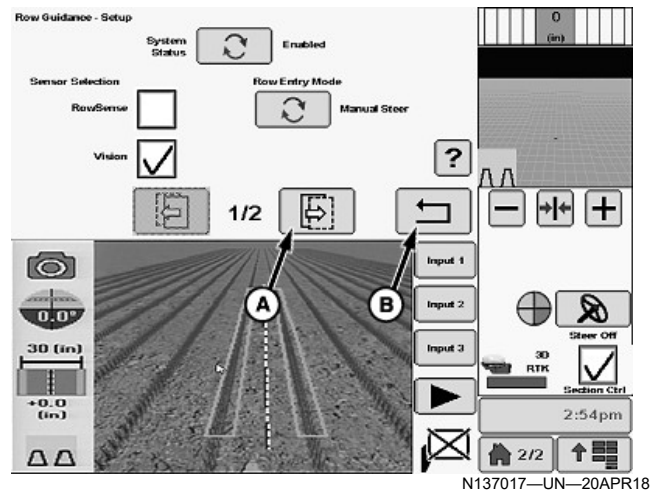


A—System Status Button
B—Vision Check Box
C—Row Entry Mode Button

2. Press system status button (A) to enable/disable AutoTrac™ Vision system.
3. Select Vision check box (B).
4. Press row entry mode button (C) to choose between the following:
 - **Manual Steer:** When AutoTrac™ resume button is pressed the system automatically switches to sensor guidance whenever crop is detected. The system switches to Global Positioning System (GPS) only guidance whenever crop is not detected. This mode is used when GPS guidance was not used during planting or rows are not straight.
 - **GPS Steer:** When AutoTrac™ resume button is pressed the system begins in GPS only guidance. When AutoTrac™ resume button is pressed a second time, the system utilizes sensor guidance when possible. When crop is not detected or sensor guidance cannot be achieved, the system

automatically switches to GPS only guidance. Use this entry mode **ONLY** when rows were GPS planted.

NOTE: The entire machine **MUST BE** completely out of the headlands before engaging AutoTrac™ Vision. Machine **must be** well aligned with and operating in the desired crop rows before engaging the system. Poor performance occurs if these conditions are not met.



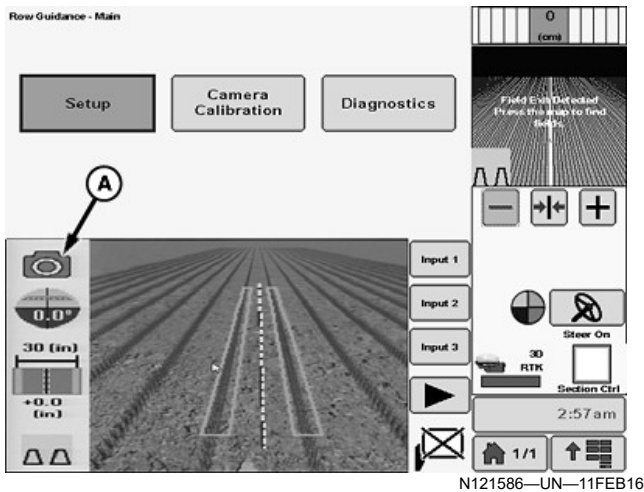
A—Next Button
B—Return Button

5. Press next button (A) to proceed to next page and adjust vision offset.
6. Press return button (B) to go back to previous page.

BN55050,00001A2-19-20APR18

AutoTrac™ Vision Overlay

The AutoTrac™ vision overlay displays the image from the vision sensor along with indicators of system inputs and statuses. The vision overlay is displayed on the screen at the location the operator has selected for the video output to display.



A—Camera Icon

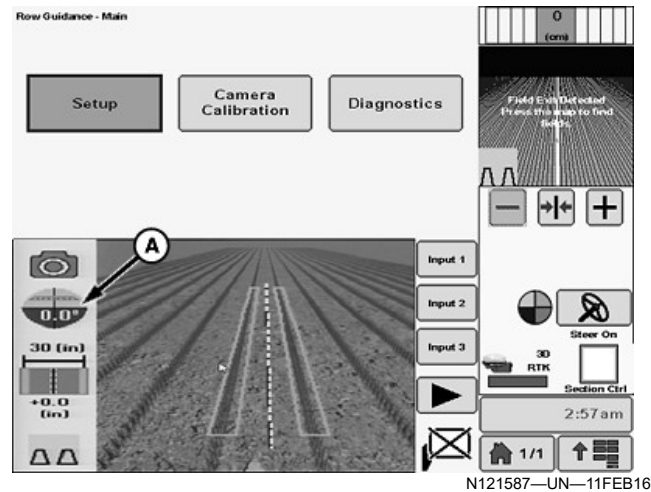
Camera Icon (A)— displays the vision sensor confidence level. This is self-evaluated on a scale 0—10. The current confidence value for the vision sensor is viewable on the system diagnostic pages.

A confidence level of ten displays the camera icon in green. Indicating that the vision sensor is confidently able to determine the location of the middle of the row.

A confidence level of eight or nine displays the camera icon in yellow. In this state, the vision guidance is still active and capable of guiding the machine. However, in this state the vision sensor is operating in less than ideal conditions such as near a canopied crop, short crop, or weedy condition.

A confidence level of 7 or less displays the camera icon in red. These confidence levels are not acceptable for guidance. If these conditions occur the vision system is disabled and GPS guidance guides the machine if a guidance line was set up. If a guidance line was not set up the operator must take control of the machine and steer manually.

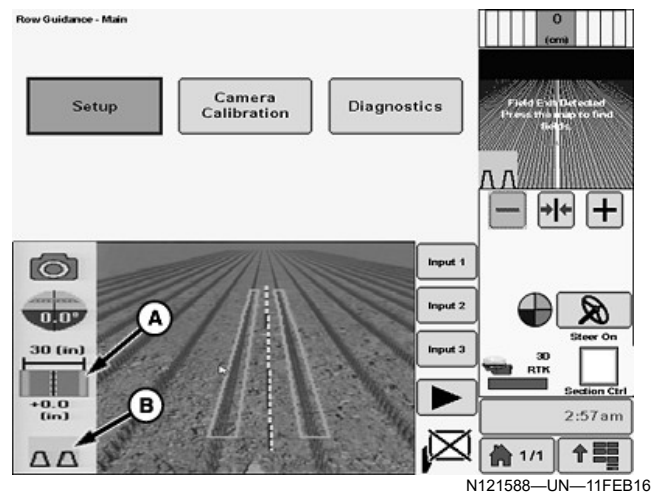
NOTE: The confidence level of the vision sensor is not a representative of how well the machine is tracking. The vision sensor only locates the middle of the row. The AutoTrac™ system is responsible for the machine tracking within the row.



A—Boom Icon

Boom Icon (A)— provides real-time feedback on slope conditions. The AutoTrac™ system is capable of slope compensation however, as slope increases performance can be diminished. The boom icon displays the slope both numerically and by changing the color of the boom icon:

- Green Icon— slope is 0 - 2 degrees
- Yellow Icon— slope is 2 - 6 degrees
- Red Icon— slope is above 6 degrees


A—Row Spacing Icon
B—RowSense™ Icon

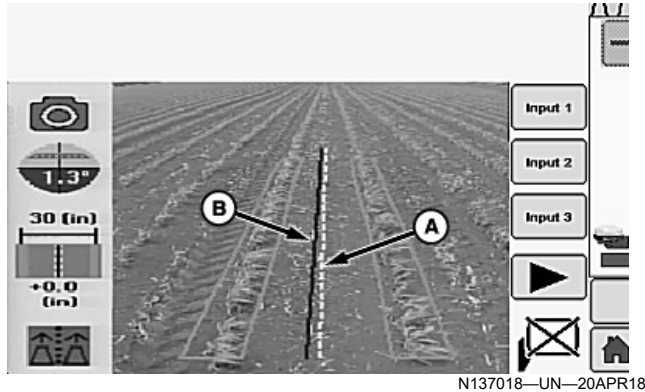
Row Spacing Icon (A)— displays the current row spacing selected for the system. If the spacing displayed is not correct the operator must input the correct row spacing and calibrate the AutoTrac™ Vision system.

The current offset applied to the system is also displayed on the icon. If the offset is not correct or should not be applied, then operator must change the setting using the setup procedure.

RowSense™ Icon (B)— displays current RowSense™

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status. See Operate AutoTrac™ in Operate System section of this manual.

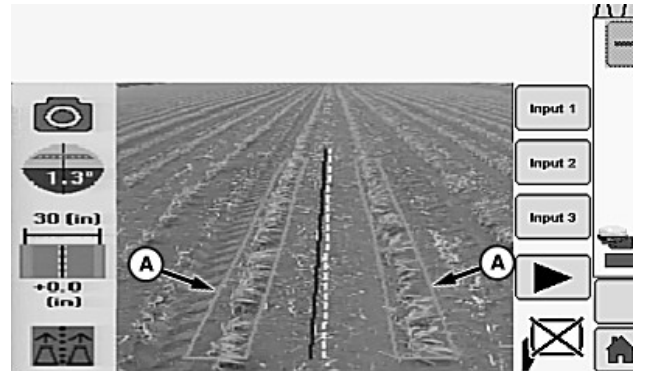


A—Row Center Indicator
B—Wheel Center Indicator

Row Center Indicator (A)— white dashed line indicates the center of the row. This is the ideal location for the machine wheel to track. The line changes slightly with changes in crop conditions. More noticeable changes in the line occur when the machine is operating in a guess row or when the crop has been planted without the use of GPS guidance.

Wheel Center Indicator (B)— solid blue line indicates

the center of the wheel which is defined during the calibration process. The wheel center indicator moves if an offset is applied to the system.



A—Crop Row Indicator

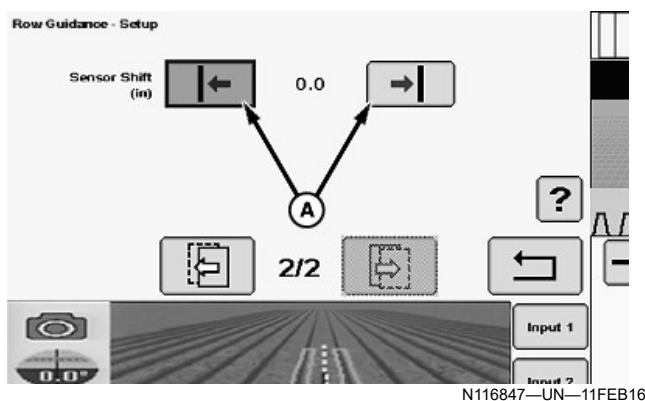
Crop Row Indicator (A)— Two green rectangles outline the crop rows informing the operator where the vision sensor has calculated the crop rows to be.

The following table contains general rules to be applied when observing the behavior of the row center indicator and wheel center indicator while traveling down the row.

AutoTrac™ Vision Calibration Quality	AutoTrac™ Setting	Observed Result
Good	Good	Row center indicator and wheel center indicator are aligned well (less than 101 mm (4 in) offset) at all speeds.
Good	Poor	Row center indicator and wheel center indicator are aligned well at slow speeds (less than 16 km/h (10 mph)). Indicators are too aggressive or slow to align or respond at higher speeds.
Poor	Good or Poor	Row center indicator and wheel center indicator are never aligned at any speed. Indicators may be crossed in this case.

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Adjust RowSense™ Shift



A—Sensor Shift Button

Sensor shift allows an operator to adjust the vehicle tracking left or right using the sensor shift buttons (A).

On guidance pages, the center shift button resets the vehicle tracking based on current position in the row.

After performing a vision sensor calibration, reset offsets back to 0.

NOTE: For more information, refer to GreenStar™ 3 2630 Display—Guidance and GreenStar™ 3 2630 Display—Basic Applications Operator's Manuals.

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Vision Sensor Calibration Procedure

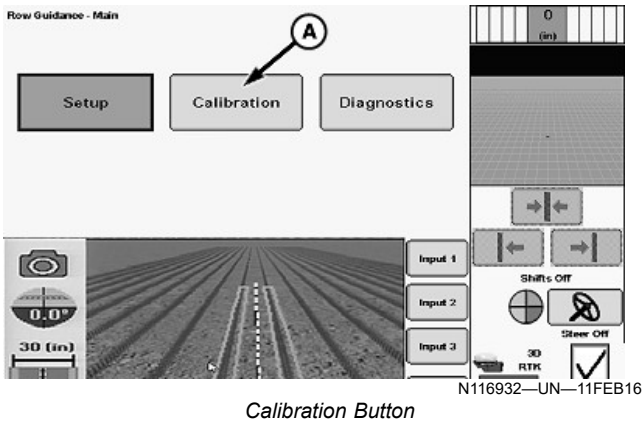
Calibration is recommended to improve performance for changes in the following:

- Crop height, if varying more than 305 mm (12 in)
- Crop type
- Crop color
- Soil color
- Crop residue
- Weedy conditions
- Tread setting, front and rear axles must be equal
- Camera Mounting

If crop rows are not well defined, heavily weeded or large skips are present in rows then system calibration will not be correct or may be unsuccessful. Position machine to avoid these conditions before beginning calibration for best results.

Image displayed during calibration is low resolution. The display cannot support high definition images from the vision sensor. This is normal system operation.

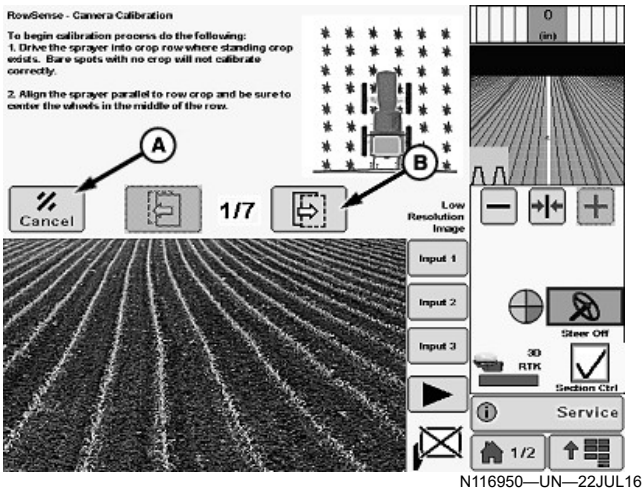
2. Align machine with wheels in the center of crop rows. Press next button (B).



Calibration Button

A—Calibration Button

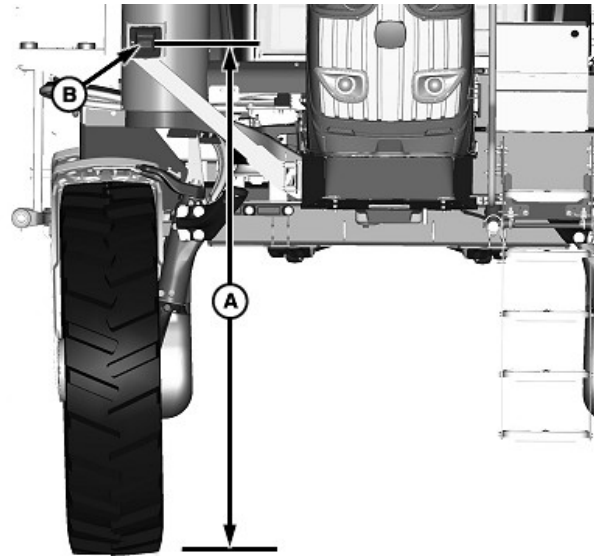
1. Select calibration button (A).



A—Cancel Button

B—Next Button

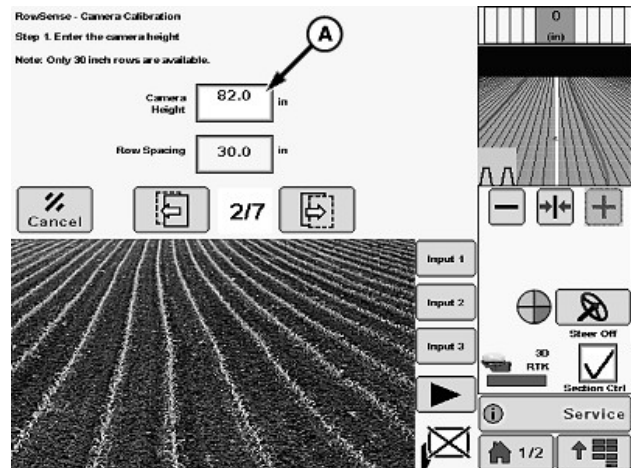
NOTE: Press the cancel button (A) at any time during calibration to end the procedure. Calibration value is not saved if cancel button is pressed.



A—Camera Height Distance B—Camera Window

N137020—UN—20APR18

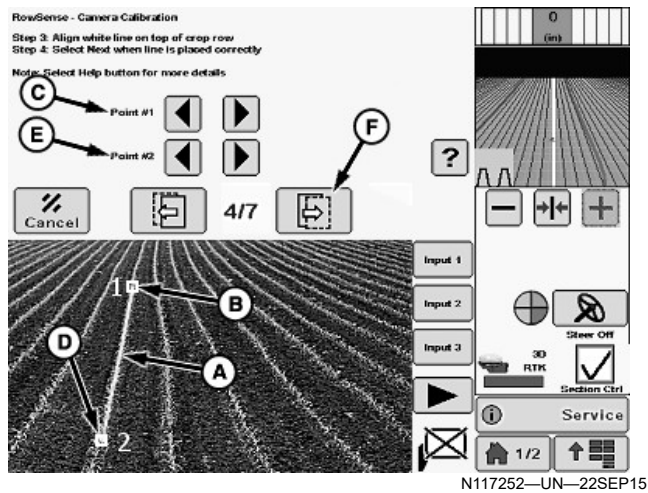
3. Measure distance (A) from bottom of camera window (B) to the ground.



A—Camera Height Input Box

4. Select camera height input box (A) and enter previously measured camera height.

5. Press next button.
6. Wait for the system to perform calibration procedure.

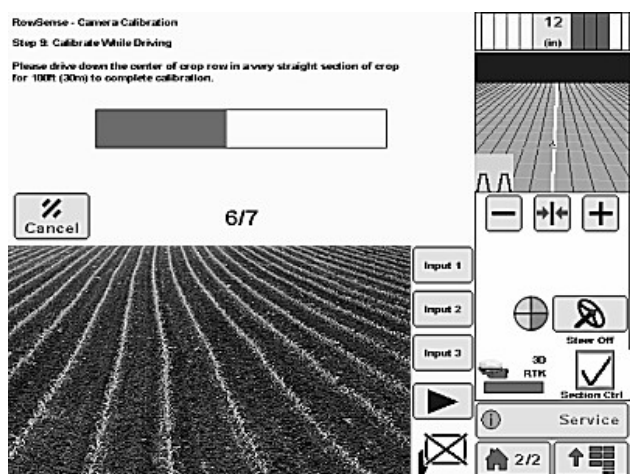


N117252—UN—22SEP15

- A—White Line
 B—Point 1
 C—Point 1 Adjustment Button
 D—Point 2
 E—Point 2 Adjustment Button
 F—Next Button

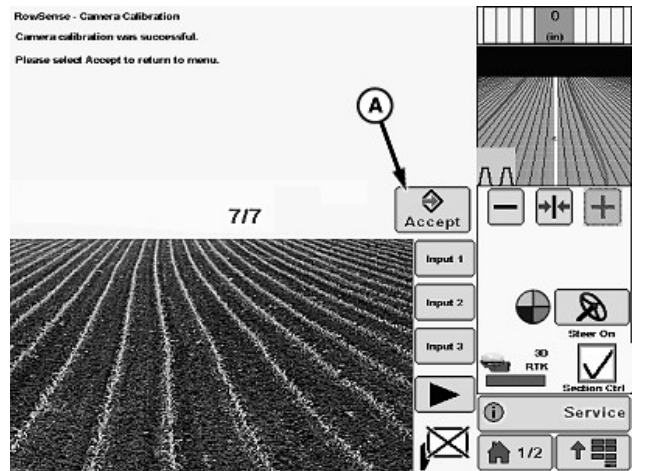
7. Check white line (A) for accurate row location.
8. If white line is not centered on the crop row perform the following:
 - a. Adjust point 1 (B) to center of row using point 1 adjustment buttons (C).
 - b. Adjust point 2 (D) to center of row using point 2 adjustment buttons (E).
9. Press next button (F) when white line is centered on the crop row.
10. Wait for calibration process to be completed.

NOTE: Machine must be moving forward during process (not reverse) to avoid calibration failure.



N119912—UN—22SEP15

11. Drive down the center of the crop row in a very straight section of the crop for 30 m (100 ft) to complete calibration.



N117253—UN—22SEP15

A—Accept Button

12. Press the accept button (A) to confirm and save the calibration.

NOTE: If calibration fails, press the accept button to return to the main menu. Verify that machine is properly aligned with rows, that wheels are in the center of crop rows, and that rows are well defined with no skips. Repeat calibration procedure.

Refer to the Troubleshooting Guide for more information about causes for calibration failures.

BN55050,00001A5-19-17MAY18

AutoTrac™ RowSense™ Setup

Overview

CAUTION: Do not use AutoTrac™ RowSense™ system on roadways. Always turn off (disable) AutoTrac™ RowSense™ system before entering a roadway. Do not attempt to turn on (activate) AutoTrac™ RowSense™ system while transporting on a roadway.

When system is activated, stay alert and pay attention to surrounding environment. Take control of steering when necessary to avoid field hazards, bystanders, equipment, or other obstacles. To operate and steer machine safely, stop operation if poor visibility conditions impair your ability.

IMPORTANT: The AutoTrac™ RowSense™ system is intended to aid operator in performing field operations more efficiently. Operator is always responsible for the machine path and must continue to pay attention to surrounding environment while operating machine. To identify people or obstacles in the machine path, stop operation if poor visibility conditions impair your ability.

Always operate machine from the operator's seat. Always use seat belt.

NOTE: Max tire width for row-crop is 380 mm (14.9 in) when operating in 762 mm (30 in) rows.

If machine has AutoTrac™ RowSense™, crop maturity and plant structure are susceptible to damage. Remove RowSense™ paddles to avoid crop damage.

AutoTrac™ RowSense™ is composed of the following components:

- Integrated AutoTrac™ installed and activated on machine, with upgraded AutoTrac™ RowSense™ software programmed into Steering System Unit (SBBC or SSU)
- AutoTrac™ RowSense™ activation—GS3



N120062—UN—02OCT15

AutoTrac™ RowSense™ Sensor

- RowSense™ Sensors mounted to machine (contact your John Deere dealer)
- StarFire™ receiver with SF1, SF2, or RTK activation

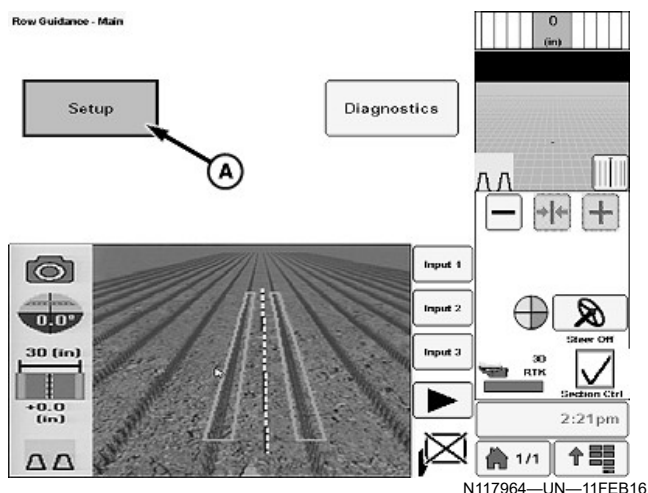
AutoTrac™ RowSense™ is an enhancement to integrated AutoTrac™ on the GreenStar™ 3 2630 Display. The row sensors mounted to the front suspension assemblies detect crop to know where row is. Signals provided by the row sensor are integrated with existing AutoTrac™ signals to help keep machine on rows. When there is no signal coming from the row sensor (for example, driving through a waterway), normal GPS guidance applies.

Most other characteristics of AutoTrac™ remain unchanged. Row sensor is simply another position input for steering the machine. All tracking modes are set up the same way as they are with GPS based AutoTrac™. Read and understand GreenStar™ 3 2630 Display—Guidance Operator's Manual.

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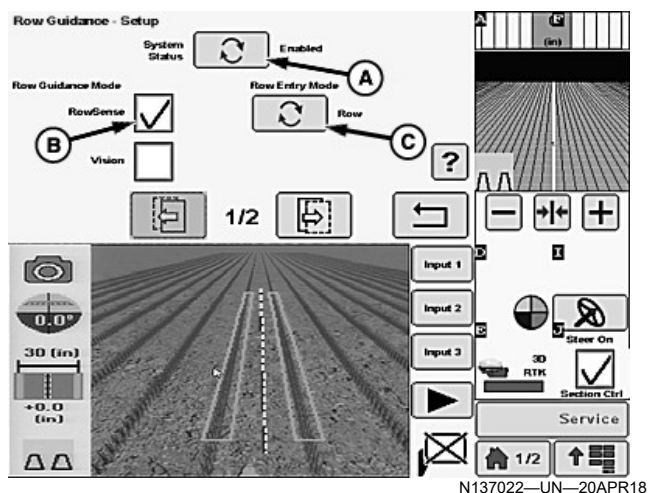
AutoTrac™ RowSense™ Setup

After the display has been configured set up AutoTrac™ RowSense™.



A—Setup Button

1. Select setup button (A).

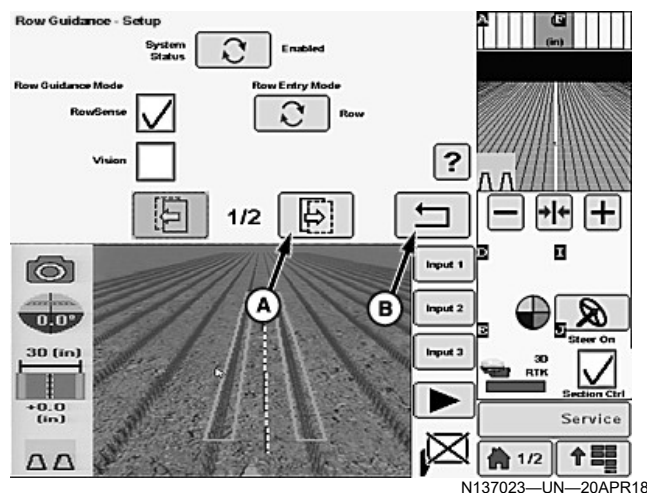


A—System Status Button
B—RowSense™ Check Box
C—Row Entry Mode Button

2. Press the system status button (A) to enable/disable RowSense™ guidance system.
3. Select RowSense™ check box (B).
4. Press the row entry mode button (C) to choose between the following:
 - **Manual Steer:** When AutoTrac™ resume button is pressed the system automatically switches to sensor guidance whenever crop is detected. The system switches to Global Positioning System (GPS) only guidance whenever crop is not detected. This mode is used when GPS guidance was not used during planting or rows are not straight.
 - **GPS Steer:** When AutoTrac™ resume button is pressed the system begins in GPS only guidance. When AutoTrac™ resume button is pressed a second time, the system utilizes sensor guidance when possible. When crop is not detected or sensor guidance cannot be achieved, the system

automatically switches to GPS only guidance. Use this entry mode **ONLY** when rows were GPS planted.

NOTE: The entire machine **MUST BE** completely out of the headlands before engaging AutoTrac™ RowSense™. Machine **must be** well aligned with and operating in the desired crop rows before engaging the system. Poor performance occurs if these conditions are not met.

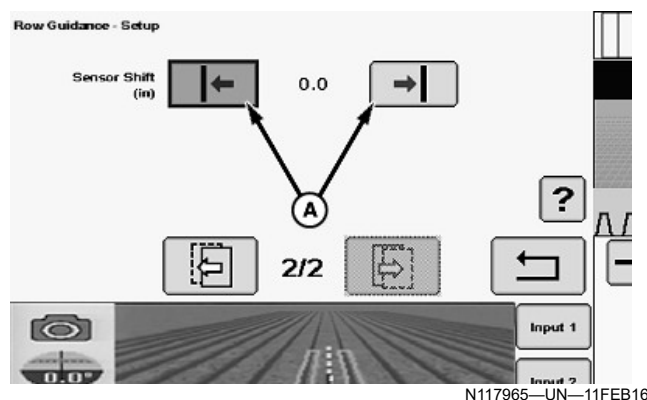


A—Next Button
B—Return Button

5. Press next button (A) to proceed to next setup page.
6. Press return button (B) to go back to previous page.

BN55050,00001A7-19-20APR18

Adjust RowSense™ Shift



A—Sensor Shift Button

Sensor shift allows an operator to adjust the vehicle tracking left or right using the sensor shift buttons (A).

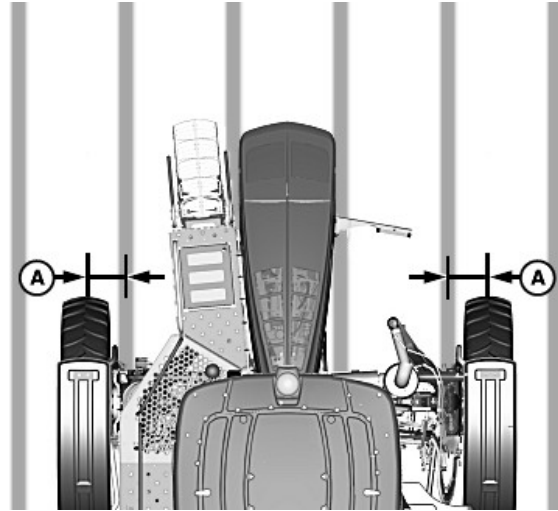
On guidance pages, the center shift button resets the vehicle tracking based on current position in the row.

NOTE: For more information, refer to GreenStar™ 3 2630 Display—Guidance and GreenStar™ 3 2630 Display—Basic Applications Operator's Manuals.

BN55050,00001A8-19-15MAY18

AutoTrac™ RowSense™ Feelers Crop Spacing Setup

Machine	Row Spacing	Tread Width Centered	Tread Width AutoTrac™ RowSense™
	mm (in)	mm (in)	mm (in)
R4030, R4038, R4044, R4045, R4060*	508 (20)	3048 (120)	3048 (120)
R4030, R4038, R4044, R4045, R4060*	558 (22)	3048 (120)	3048 (120)
R4030, R4038, R4044, R4045, R4060*	Above 558 (22) Below 762 (30)	3048 (120)	3048 (120)
R4030, R4038, R4044, R4045, R4060	762 (30)	3048 (120)	3048 (120)
R4030, R4038, R4044, R4045, R4060*	914 (36)	3658 (144)	3505 (138)
R4030, R4038, R4044, R4045, R4060*	965 (38)	3861 (152)	3658 (144)
R4030, R4038, R4044, R4045, R4060*	1016 (40)	4064 (160)	3810 (150)
R4023 Wide*	508 (20)	2286 (90)	2286 (90)
R4023 Wide*	558 (22)	2286 (90)	2286 (90)
R4023 Wide*	Above 558 (22) Below 762 (30)	2286 (90)	2286 (90)
R4023 Wide	762 (30)	2286 (90)	2286 (90)
R4023 Wide*	914 (36)	2743 (108)	2591 (102)
R4023 Wide*	965 (38)	2896 (114)	2692 (106)
R4023 Wide*	1016 (40)	3048 (120)	2794 (110)

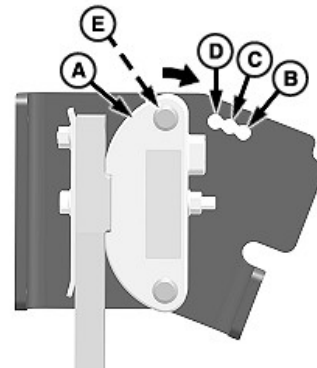


N119914—UN—23SEP15

Example: 1016 mm (40 in) Row Spacing

A—Dimension, 381 mm (15 in)

Adjust the tread width to operate with the centerline of the tire 381 mm (15 in) from the centerline of the crop row.



N151461—UN—10JUN20

RowSense™ Sensor Adjustment

A—Sensor Assembly

B—Position, 508 mm (20 in)

C—Position, 558 mm (22 in)

D—Position, Above 558 mm (22 in) and Below 762 mm (30 in)

E—Position, 762 mm (30 in)

For crop row spacing smaller than 762 mm (30 in), adjust sensor assembly (A) to the appropriate position (B—D) on the sensor mounting bracket.

For 762 mm (30 in) crop row spacing, install the sensor assembly at position (E) on the sensor mounting bracket.

For crop row spacing larger than 762 mm (30 in), extension kit BPF11507 must be ordered so that the sensor mounting brackets can be replaced.

BN55050,0000490-19-19JUN20

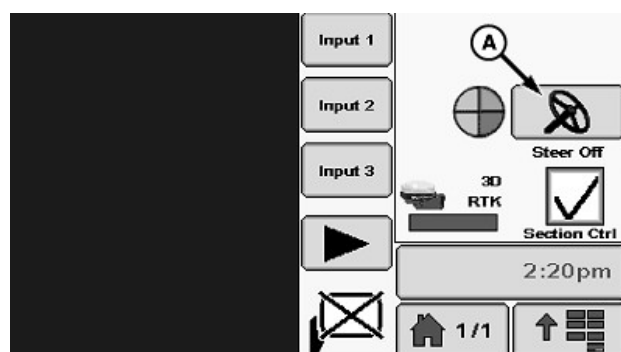
Operate System

Operate AutoTrac™

CAUTION: While AutoTrac™ is active, operator is responsible for steering at end of path and collision avoidance.

The system automatically steers the machine. To avoid injury, verify that no bystanders are in the vicinity before calibration.

Always turn off (disable) AutoTrac™ system before entering a roadway. Do not attempt to turn on (activate) AutoTrac™ system while transporting on a roadway.

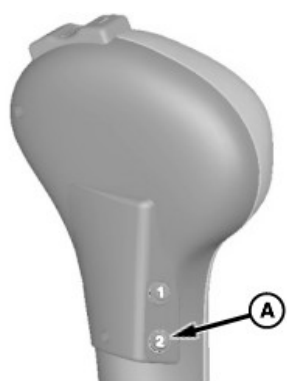


N137024—UN—20APR18

A—Steer On-Off Button

1. Press the steer on-off button (A) to toggle between enable/disable AutoTrac™. To enable system, the following conditions must be met:

- AutoTrac™ control unit has been detected.
- Tracking has been set up.
- Tracking is ON.
- Control unit is in normal operating mode.



N137026—UN—20APR18

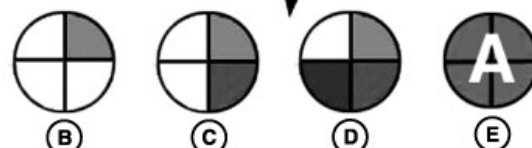
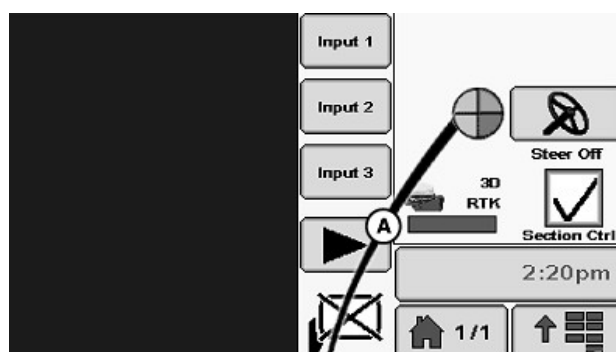
A—AutoTrac™ Resume Button

2. Press the resume button (A) on the multi-function lever to activate AutoTrac™ system. To activate system, the following conditions must be met:

- Machine heading within 80° degrees of the

desired track if speed is less than 17.7 km/h (11 mph).

- Machine heading within 45° degrees of the desired track if speed is higher than 17.7 km/h (11 mph).
- Off track error is within 40% of the track spacing.
- Boom unfolded if operating above 24 km/h (15 mph).
- Operator in seat.

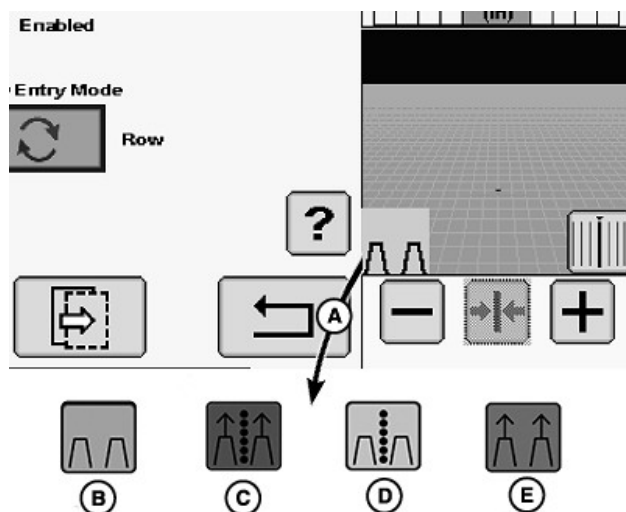


N137025—UN—20APR18

- A—AutoTrac™ Status Indicator
- B—AutoTrac™ Installed Indicator
- C—AutoTrac™ Configured Indicator
- D—AutoTrac™ Enabled Indicator
- E—AutoTrac™ Activated Indicator

3. Check AutoTrac™ status indicator (A). Status indicator shows the stage that AutoTrac is in:

- Stage 1—**Installed (B)**—AutoTrac™ control unit and all other hardware necessary for use are installed.
- Stage 2—**Configured (C)**—Valid AutoTrac™ Activation, Tracking Mode has been determined and a valid Track 0 has been established. Correct GPS signal level for AutoTrac™ Activation is selected. Vehicle conditions met.
- Stage 3—**Enabled (D)**—Auto on-off button has been pressed and “Steer On” is displayed.
- Stage 4—**Activated (E)**—Resume button on multi-function lever has been pressed and AutoTrac is steering the machine.



- A—Guidance Status Icon
 B—System Installed Icon
 C—System Active Icon
 D—Lost GPS Icon
 E—Lost Row Sensor Signal Icon

N116846—UN—22SEP15

When operating RowSense™, an icon (A) appears indicating row sensor is available. Each icon indicates what is happening on the machine at that moment.

The guidance status Icon changes from white to colored (green) animated form when row sensor is controlling machine, as follows:

- **System Installed (B)** (Gray Background).
- **System Active (C)**, operating with both, row sensor and GPS (Green Background).
- **Lost GPS (D)**, operating with the row sensor data only (Yellow Background).
- **Lost Row Sensor Signal (E)**, operating with GPS only (Orange Background).

NOTE: Guidance accuracy is diminished when operating with icon status D or E.

Row sensor guides the machine whenever it can determine a row position. Operator knows that the row sensor is guiding machine by AutoTrac™ icon changing to green and showing motion.

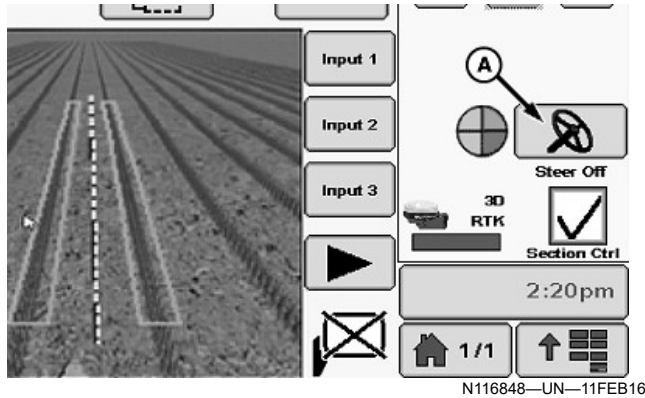
Once initial path has been set (an AB line) and Auto on-off button is pressed to enable AutoTrac™, then resume button can be pressed when machine is within half the track spacing and at an acceptable angle to rows. Row sensor guides the machine when there is activity on the row sensor.

Field Operation

The following describes the basic operating process when operating in a field.

1. Align machine parallel with well-defined crop rows.
2. Perform calibration check.
 - If calibration is successful proceed with procedure.
 - If calibration is not successful, verify that rows are well-defined and perform calibration procedure.
3. Begin spray application.
4. Create an accurate guidance line using AutoTrac™ (see Straight Track Mode in Display and AutoTrac™ Configuration section). This line is utilized if sensor signal is lost.
5. Complete turn at headlands, **DO NOT** engage AutoTrac™ Vision or AutoTrac™ RowSense™ until machine has left the headland.
6. Continue spray operation. Proceed as follows if the following conditions occur:
 - When entering new pass.
 - a. Engage AutoTrac™ RowSense™ once both front wheels are fully **parallel** with the crop row and both paddles are engaging crop.
 - b. Engage AutoTrac™ Vision once machine and camera are pointing **parallel** to the crop row after leaving headlands.
 - Row cannot be detected by sensors.
 - a. GPS guidance resumes control.
 - b. This can result in crop damage if guidance line does not follow rows.
 - c. Sensors resume control when row is detected again.
 - System performance is not satisfactory.
 - a. See Troubleshooting section for solutions to symptoms.
 - b. Cross wind causes crop rows not to be clearly defined. If crop is tall enough switch to RowSense™ guidance.
 - c. Use shift buttons to adjust machine tracking during each pass.

Deactivate AutoTrac™



A—Steer On-Off Button

AutoTrac™ system can be made INACTIVE by the following methods:

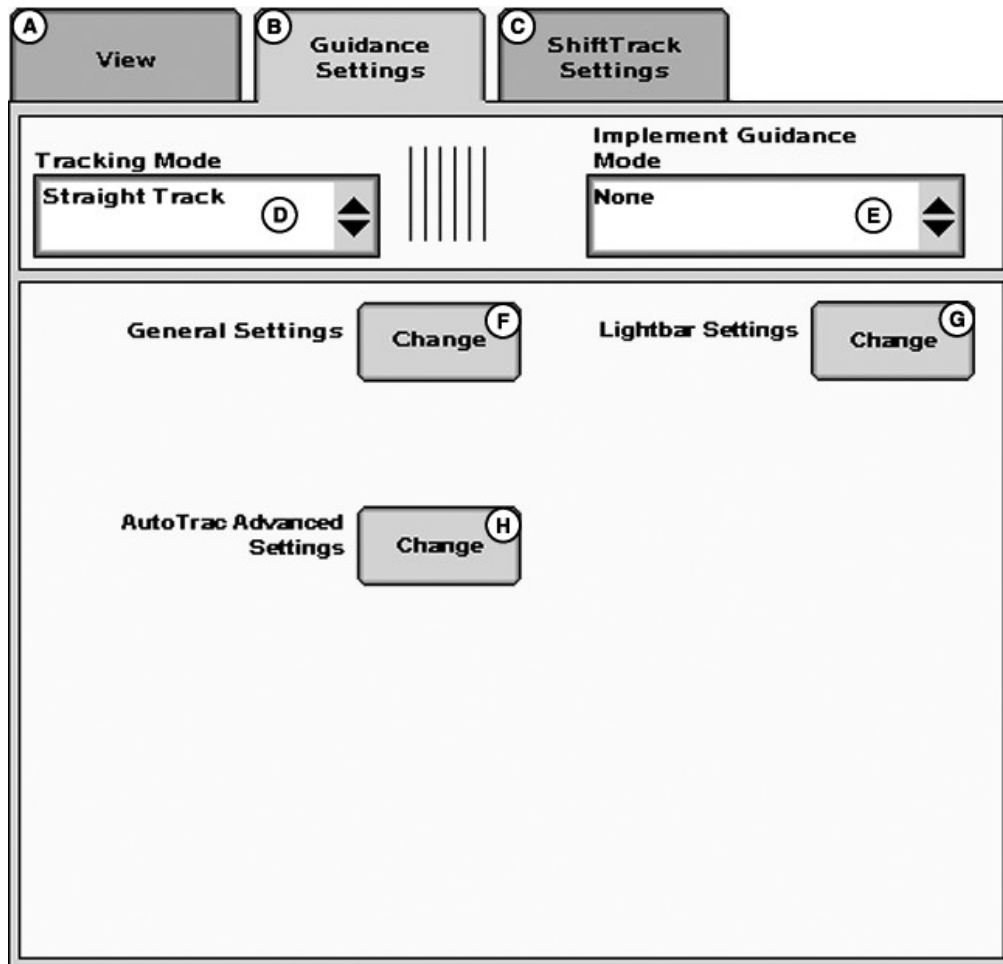
- Press steer the on-off button to select between on-off.
- Turn steering wheel more than 30 degrees.
- Engage transport lock.
- Decrease ground speed to less than 0.5 km/h (0.3 mph) longer than 30 sec.
- Operator not seated for more than seven sec.
- Track number is changed.

BN55050,00001A9-19-15MAY18

CAUTION: Always turn off (disable) AutoTrac™ system before entering a roadway. To disable AutoTrac™ from GUIDANCE VIEW tab, press the steer on-off button (A) until STEER OFF is displayed.

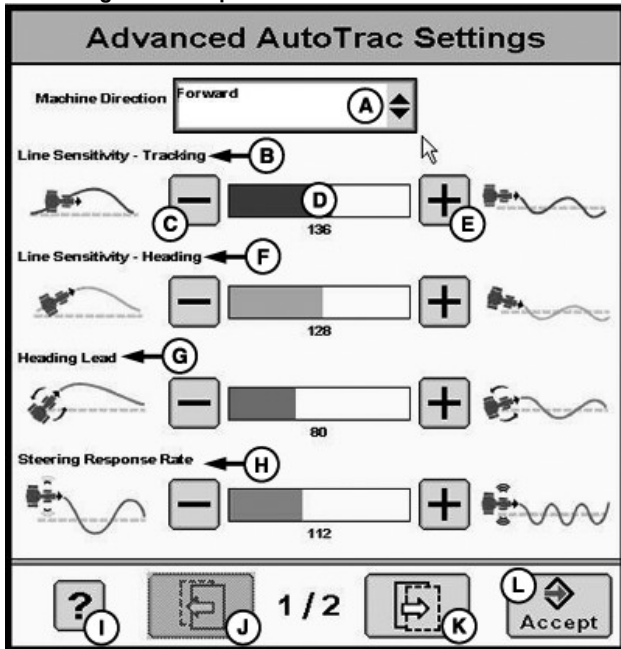
Advanced AutoTrac™ Settings

Advanced AutoTrac™ Screens



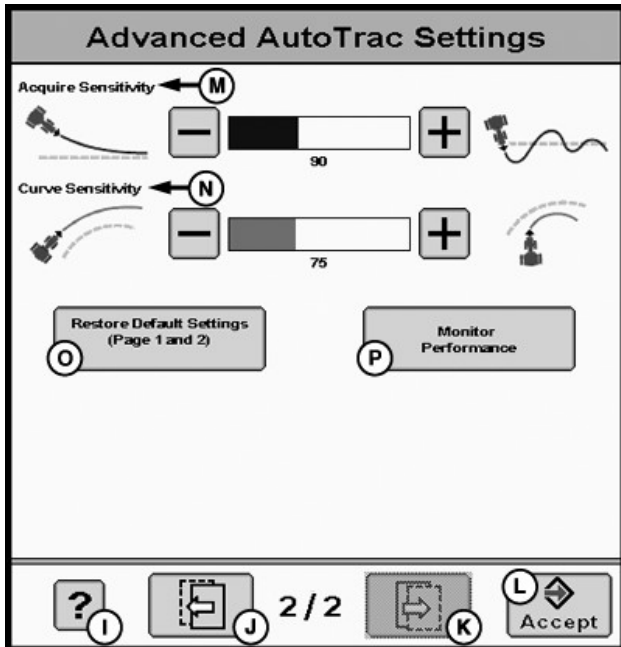
PC14326CC—19—24OCT13

- A—View
- B—Guidance Settings
- C—Shift Track Settings
- D—Tracking Mode Drop-Down Menu



PC14861CC—19—24OCT13

Advanced AutoTrac™ Settings 1/2



PC14864CC—19—24OCT13

Advanced AutoTrac™ Settings 2/2

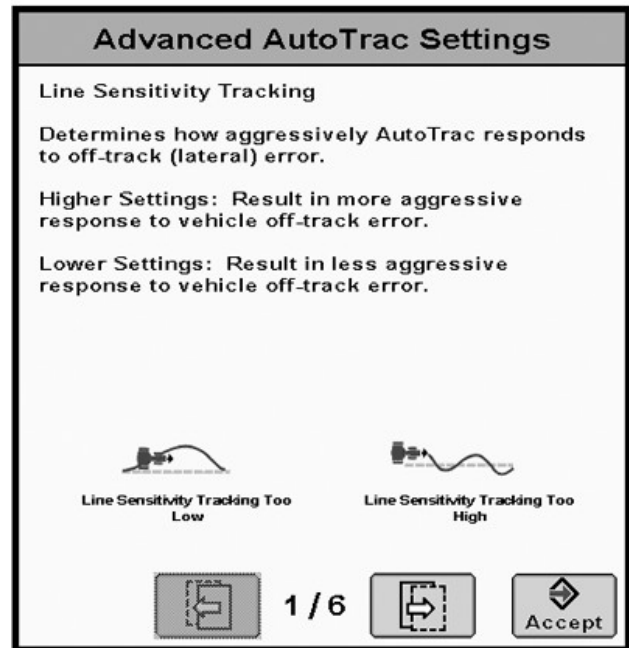
- A—Machine Direction Drop-Down Box
- B—Line Sensitivity Tracking
- C—Decrease Button
- D—Bar Graph
- E—Increase Button
- F—Line Sensitivity Heading
- G—Heading lead
- H—Steering Response Rate
- I—Help Button
- J—Back Button

- E—Implement Guidance Mode Drop-Down Menu
- F—General Settings
- G—Lightbar Settings
- H—AutoTrac™ Advanced Settings
- K—Next Button
- L—Accept Button
- M—Acquire Sensitivity
- N—Curve Sensitivity
- O—Restore Default Settings
- P—Monitor Performance

Advanced AutoTrac™ Settings

Select machine direction from the Machine Direction drop-down box.

Accept button (L) saves and applies current settings and returns to the previous page. Restore Default Settings button (O) sets all settings to factory default value. See each setting for its default value. The '?' button (I) displays a pop-up with help text for each of the specific settings.



PC14185CC—19—24OCT13

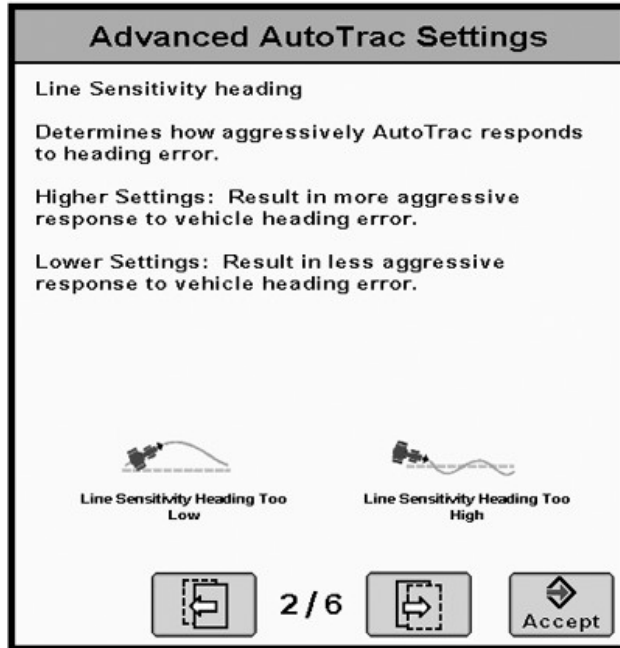
Line Sensitivity Tracking 1/6

Line Sensitivity Tracking

Determines how aggressively AutoTrac™ responds to off-track (lateral) error.

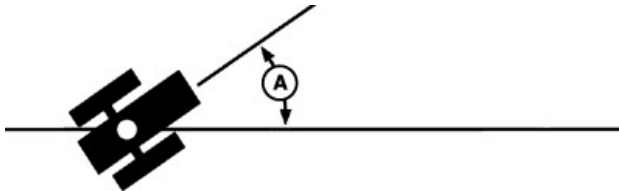
Higher settings: Results in more aggressive response to vehicle off-track error.

Lower Settings: Results in less aggressive response to vehicle off-track error.

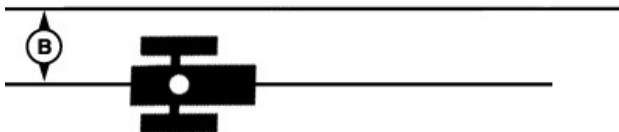


PC14186CC—19—24OCT13

Line Sensitivity Heading 2/6



PC8994—UN—07MAR06



PC8993—UN—09MAR06

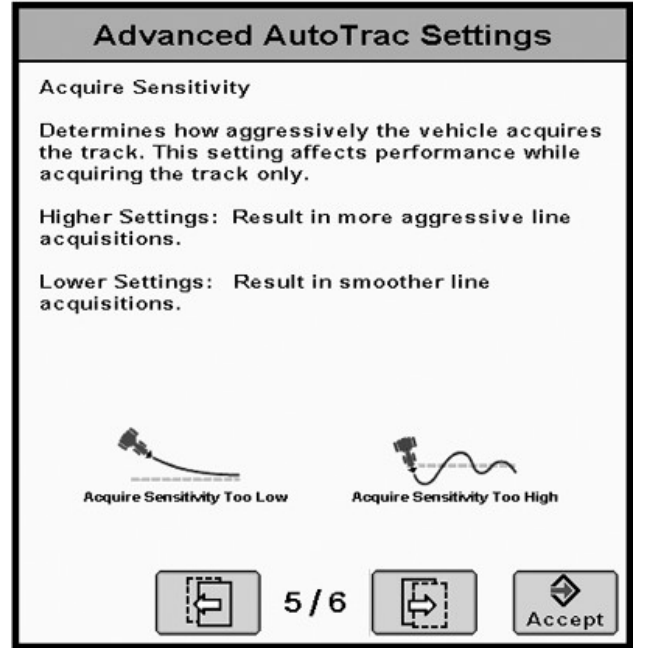
A—Heading Error
B—Tracking Error

Line Sensitivity Heading

Determines how aggressively AutoTrac™ responds to heading errors.

Higher settings: Result in more aggressive response to vehicle heading error.

Lower settings: Result in less aggressive response to vehicle heading error.



PC14189CC—19—24OCT13

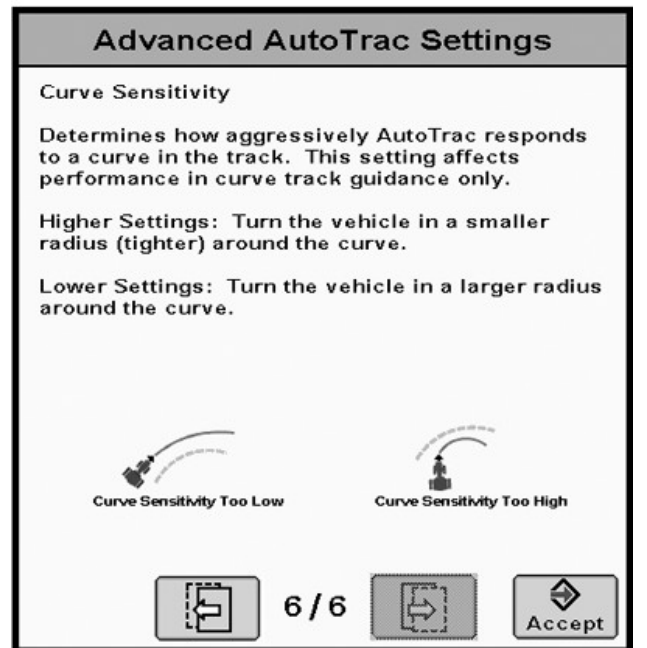
Acquire Sensitivity 5/6

Acquire Sensitivity

Determines how aggressively vehicle acquires track. This setting affects performance while acquiring the track only.

High settings: Results in a more aggressive track line acquisition.

Lower settings: Results will give smoother entry into the next track.



PC14190CC—19—24OCT13

Curve Sensitivity 6/6

Curve Sensitivity

Determines how aggressively AutoTrac™ responds to a curve in the track. This setting affects performance in curve track guidance only.

Higher settings: Turns vehicle in a smaller radius (tighter) around curve.

Lower Settings: Turns vehicle in a larger radius around curve.

Diagnostic Readings

GreenStar - Diagnostic Readings

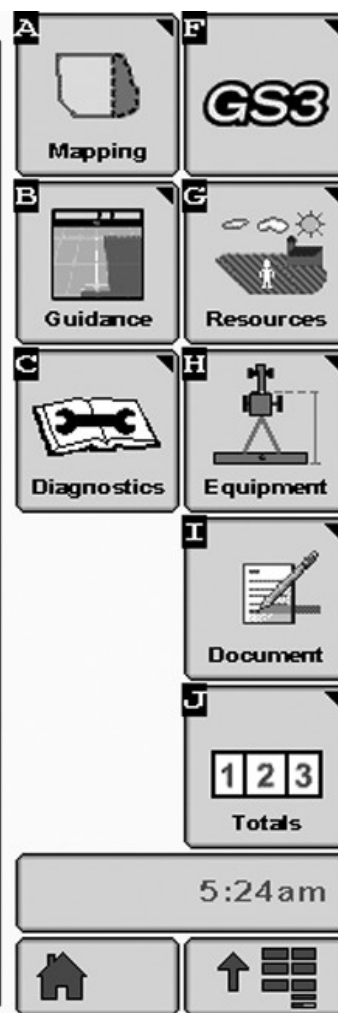
Read the latest Operator Manual prior to operation. To obtain a copy, see your dealer or visit www.StellarSupport.com.

(A) → View **AutoTrac**

(B) → Last Exit Code Issued: N/a

(C) → Time of Last Exit Code: 000: 000: 000 000/ 000/ 000000

State	Conditions	Status
	(D) → Steer Ctrl Capabilities (Curve, Reverse, Steer Sensitivity)	Yes, Yes, No
	(E) → AutoTrac License	SF2
	GPS Valid	(F) Yes
	Differential Correction	(G) No
	Differential Mode Selected	(H) None
	Tracking Mode Selected	(I) Straight Track
	Pivot Pro License	(J) Yes
	AB Line Defined	(K) ---
	Free of Steer Ctrl Trouble Codes	(L) Yes
	Valid Implement Guidance Configuration	(M) N/a
	(N) → Steer On/Off Button	Off
	(O) → Vehicle Gear Selected	Neutral
	Speed Within Range	(P) ---
	Within 80 Degrees of Line	(Q) ---
	Within 40% Tracking Width	(R) ---



PC12746CC—19—24OCT13

GREENSTAR 3 PRO >> DIAGNOSTIC softkey >> AutoTrac

- **(A) View** - Drop-down Box.
- **(B) Last Exit Code Issued** - Indicates why AutoTrac™ deactivated or will not activate.
- **(C) Time of Last Exit Code** - Time and date of when last exit code occurred.
- **(D) SSU Capabilities (Curve, Reverse, Steer Sensitivity)** - Indicates if vehicle steering control unit is capable of operating in Curve Track, Reverse, or if Steer Sensitivity is tunable from the display. Yes or No are displayed indicating if that feature is available or not.
- **(E) AutoTrac™ License** - Indicates whether the display has a valid AutoTrac™ License and which it is (SF1 or SF2).
- **(F) GPS Valid** - Indicates if valid GPS is received.
- **(G) Differential Correction** - Indicates if receiving differential correction.
- **(H) Differential Mode Selected** - Indicates differential correction mode selected on StarFire™ receiver (SF1, SF2, RTK).
- **(I) Tracking Mode Selected** - Displays which tracking mode is selected.
- **(J) Pivot Pro License** - Indicates if display has a valid Pivot Pro License.
- **(K) AB Line Defined** - Indicates if a valid AB (Track 0) is defined and selected for current tracking mode.
- **(L) Free of SSU Trouble Codes** - Indicates if SSU

has any active trouble codes which might not allow AutoTrac™ to activate.

- **(M) Valid Implement Guidance Configuration** - If implement guidance is in use, indicates whether certain settings and constraints have been met.
- **(N) Steer On-Off Button** - Indicates if Steer On-Off button is in the on or off state.
- **(O) Vehicle Gear Selected** - Show which gear the vehicle is in.
- **(P) Speed Within Range** - Indicates if vehicle is traveling within speed range limitations of the platform AutoTrac is operating on.
- **(Q) Within 80 Degrees of Line** - Indicates if vehicle heading is within 80 degrees of the track the vehicle is trying to acquire.
- **(R) Within 40% Tracking Width** - Indicates if vehicle off track error is within 40% of the track spacing.

BN55050,00001AA-19-20APR18

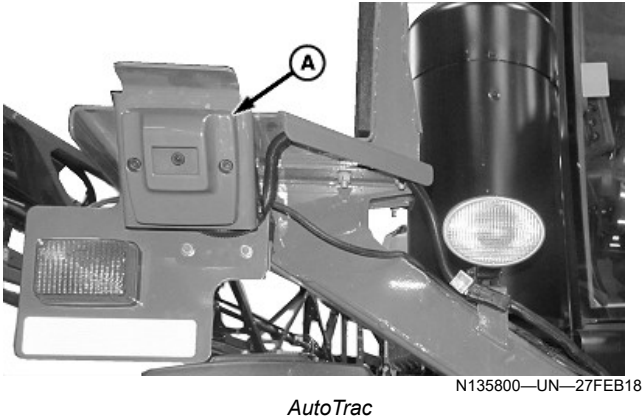
Service and Maintenance

Clean AutoTrac™ Vision Sensor

CAUTION: To avoid serious injury or death, shut OFF engine, set park brake and remove key before cleaning the vision sensor.

IMPORTANT: Do not pressure wash the vision sensor. Use normal water pressure less than 345 kPa (3.4 bar) (50 psi).

Do not use abrasive, oily, or dirty cloth to clean vision sensor.



A—AutoTrac™ Vision Sensor

Clean the AutoTrac™ vision sensor (A) of dirt and other contaminants using only water and a clean soft cloth as required.

Verify that all hardware is tight and is not missing.

BN55050,00001AB-19-20APR18

Clean AutoTrac™ RowSense™ Sensor

CAUTION: To avoid serious injury or death, shut OFF engine, set park brake and remove key before cleaning row sensor.



A—AutoTrac™ Row Sensor

B—AutoTrac™ Row Sensor Paddle

Row sensor (A) should be checked daily to see if cleaning is necessary.

If material has accumulated on the sensor it can prevent free movement and affect performance. To clean row sensor, remove debris from sensor and surrounding area at both sides of machine.

Check that the sensor paddles (B) move freely without obstruction.

Verify that all hardware is tight and is not missing.

BN55050,00001AC-19-20APR18

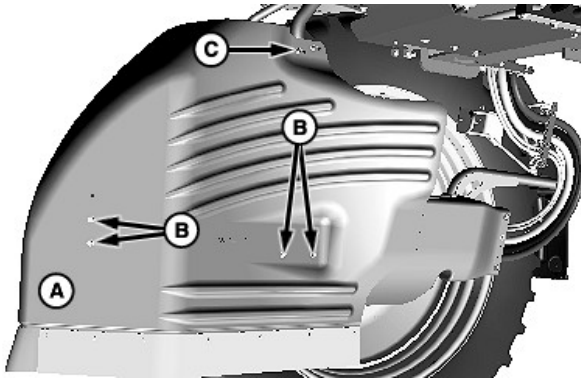
Remove RowSense™ Sensors and Bracket —R4030, R4038, R4044, R4045, and R4060

NOTE: R4038 is shown. R4030, R4044, R4045, and R4060 are similar.

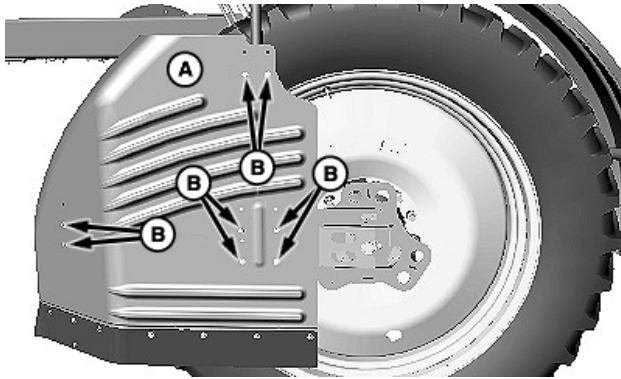
The right-hand side is shown. The left-hand side is similar.

RowSense™ brackets can remain installed with tires up to 420 mm (16.5 in) in width.

RowSense is a trademark of Deere & Company



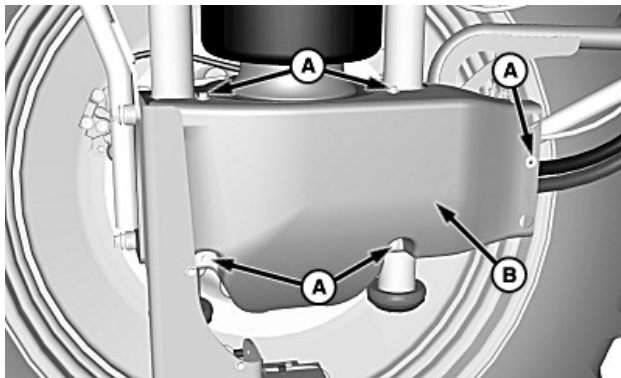
N116286—UN—26FEB15



N116285—UN—26FEB15

A—Crop Shield
B—Cap Screw (12 used)
C—Nuts (2 used)

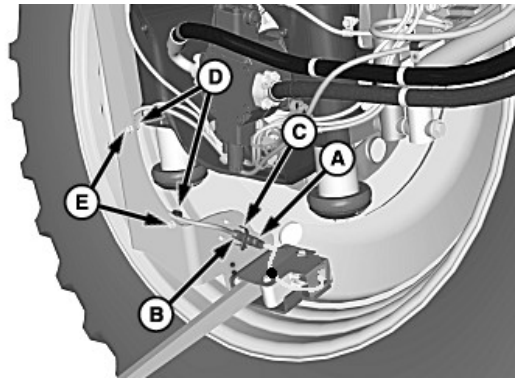
1. Set the machine to the widest tread setting.
2. **Machines Equipped with Crop Shields:** Remove and retain crop shield (A), cap screws (B), and nuts (C).



N119991—UN—24SEP15

A—Cap Screws (5 used)
B—Wheel Motor Cover

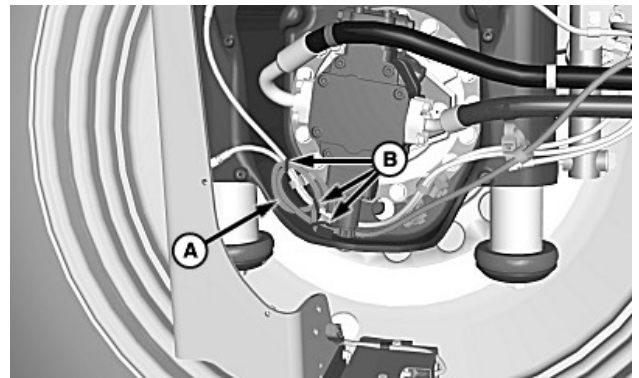
3. Remove and retain cap screws (A) and wheel motor cover (B).



N120061—UN—17FEB16

A—Sensor Harness
B—RowSense™ Harness
C—Tie Band
D—P-Clamp (2 used)
E—Cap Screw (2 used)

4. Disconnect sensor harness (A) from the RowSense™ harness (B).
5. Remove cap screws (E), P-clamps (D), and tie band (C).

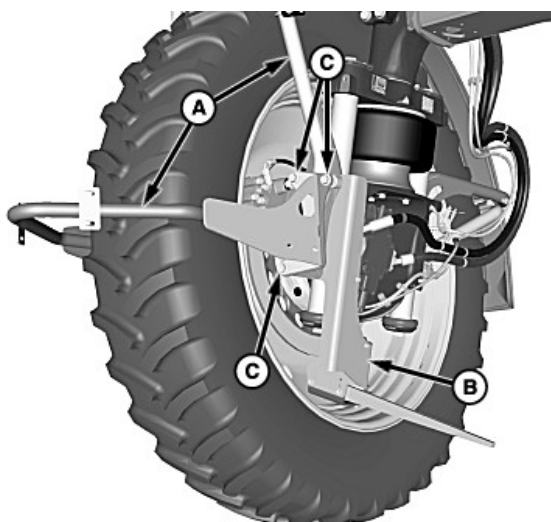


N119992—UN—24SEP15

A—RowSense™ Harness
B—Tie Bands (3 used)

6. Coil RowSense™ harness (A) and retain as shown using tie bands (B).

NOTE: If row-crop tires are to be used, then remove only the RowSense™ sensor assembly and the lower bracket. The main RowSense™ bracket will not interfere with the wheel and tire.



N119993—UN—29SEP15
Machine with Crop Shield Shown



N120060—UN—29SEP15
Machine with Fenders Only Shown

A—Crop Shield Frame
B—RowSense™ Assembly
C—Cap Screw (3 used)

7. Support crop shield/fender frame (A) using an appropriate lifting device.
8. Support RowSense™ assembly (B) and remove cap screws (C).
9. Remove the RowSense™ assembly from the machine.

NOTE: R4030, R4038, and R4044 Only—Machines equipped with fenders and crop shields use M16 x 80 cap screws. Machines with fenders only use M16 x 70 cap screws.

R4045, and R4060 Only—Four M16 x 70 cap screws are used on all machine configurations.

NOTE: Four cap screws (C) used on R4045, and R4060.

10. Reinstall the fender mount using the previously retained hardware.

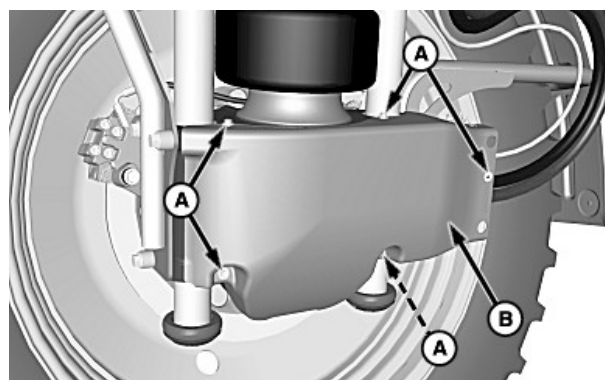
11. Reinstall the crop shield frame (if equipped) using the previously removed hardware.
12. Install the wheel motor cover using the previously removed hardware.

BN55050,000048B-19-05JUN20

Install RowSense™ Sensors and Bracket—R4030, R4038, R4044, R4045, and R4060

NOTE: R4038 is shown. R4030, R4044, R4045, and R4060 are similar.

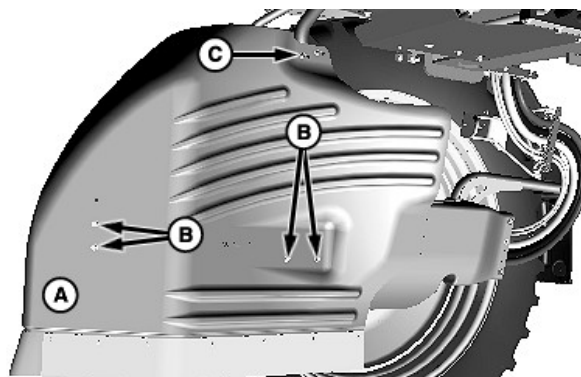
The right-hand side is shown. The left-hand side is similar.



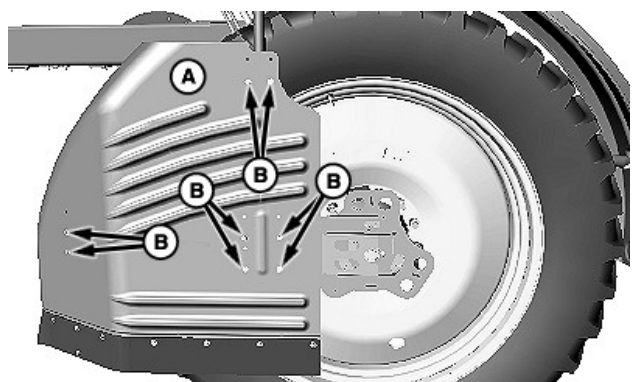
N120058—UN—29SEP15

A—Cap Screws (5 used)
B—Wheel Motor Cover

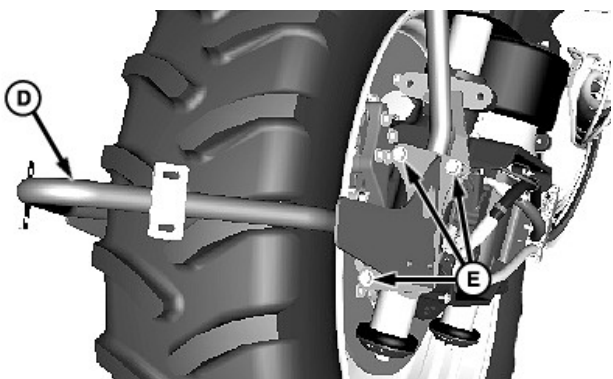
1. Set the machine to the widest tread setting.
2. Remove and retain cap screws (A) and wheel motor cover (B).



N116286—UN—26FEB15



N116285—UN—26FEB15



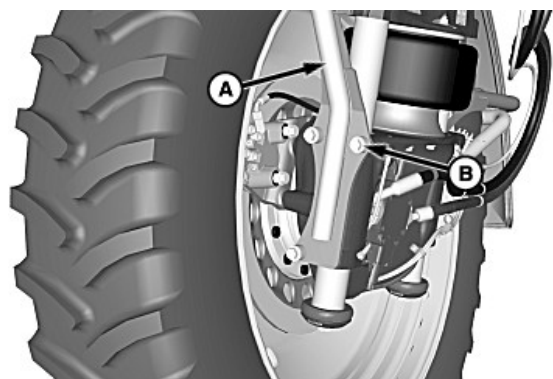
N116287—UN—26FEB15

A—Crop Shield
B—Cap Screw (12 used)
C—Nuts (2 used)
D—Crop Shield Frame
E—Cap Screw (3 used)

3. For machines equipped with crop shields:
 - a. Remove and retain crop shield (A), cap screws (B), and nuts (C).
 - b. Support the crop shield frame (D) using an appropriate lifting device.

NOTE: Four cap screws are used on R4045 and R4060.

- c. Remove and retain cap screws (E).



N120041—UN—29SEP15

A—Fender Frame
B—Cap Screws

4. For machines equipped with fenders only:

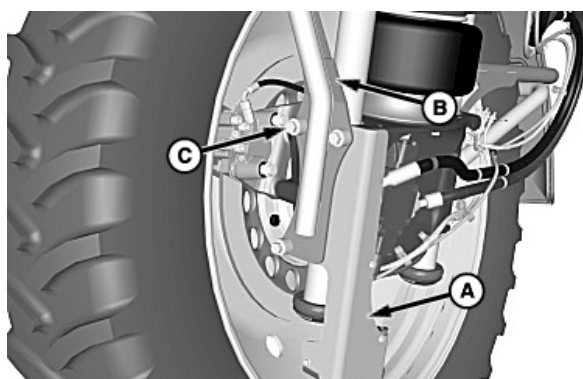
- a. Support fender frame (A) using an appropriate lifting device.

NOTE: Four cap screws are used on R4045 and R4060.

- b. Remove and retain cap screws (B).

NOTE: R4030, R4038, and R4044 Only—Machines equipped with fenders and crop shields use M16 x 110 cap screws. Machines with fenders only use M16 x 80 cap screws.

R4045, and R4060 Only—Four M16 x 80 cap screws are used on all machine configurations.



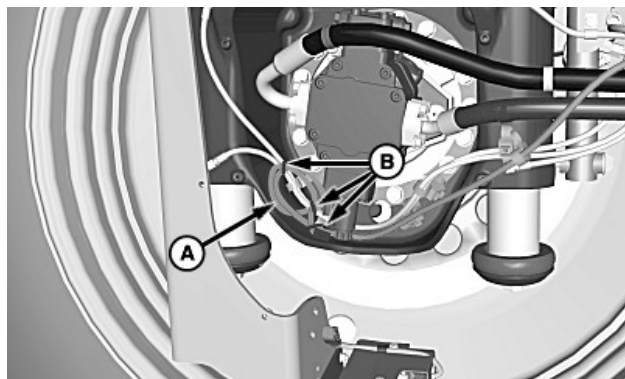
N120057—UN—29SEP15

Machine with Fenders Only Shown

A—Sensor Bracket
B—Fender Frame
C—Cap Screw (3 used)

5. Install sensor bracket (A) between the wheel motor housing and fender frame (B) using cap screws (C).
6. Adjust the RowSense™ sensors for the appropriate crop row spacing if necessary.

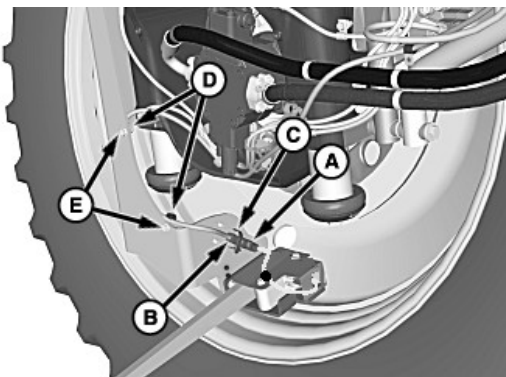
IMPORTANT: Apply dielectric compound to all electrical connections.



N119992—UN—24SEP15

A—RowSense™ Harness
B—Tie Bands (3 used)

7. Cut tie bands (B) and uncoil RowSense™ harness (A).

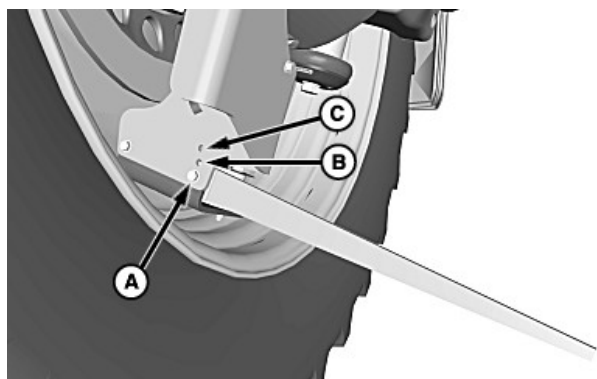


N120061—UN—17FEB16

A—Sensor Harness
B—RowSense™ Harness
C—Tie Band
D—P-Clamp (2 used)
E—Cap Screw (2 used)

8. Connect sensor harness (A) to RowSense™ harness (B).
9. Install P-clamps (D), cap screws (E), and tie band (C).

NOTE: RowSense™ sensor has three adjustment positions. The lower position is typically used. Varying crop and field conditions require sensor to be raised into position (B) or (C).



N120064—UN—02OCT15

A—Sensor Position, Lower
B—Sensor Position, Middle
C—Sensor Position, Upper

10. Adjust the RowSense™ sensor in the lower adjustment position (A).

NOTE: Some flexing of the wheel motor cover is required to align the bolt holes.

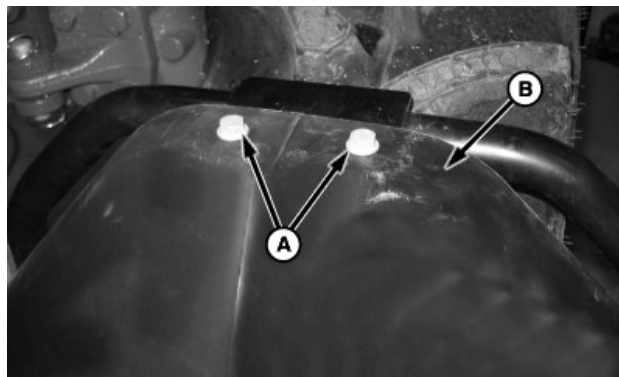
11. Install the wheel motor cover with the previously removed hardware.

12. Repeat the procedure for the remaining sensor and bracket.

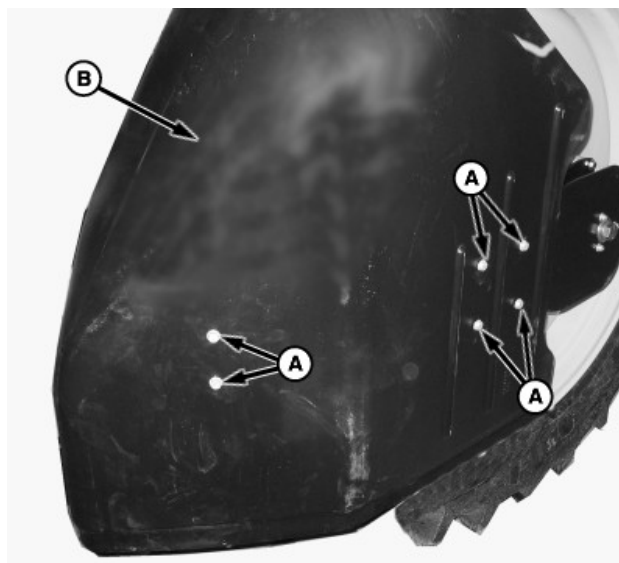
BN55050,000048C-19-08JUN20

Remove RowSense™ Sensors and Bracket—R4023 Wide

NOTE: RowSense™ brackets can remain installed with tires up to 420 mm (16.5 in) in width.



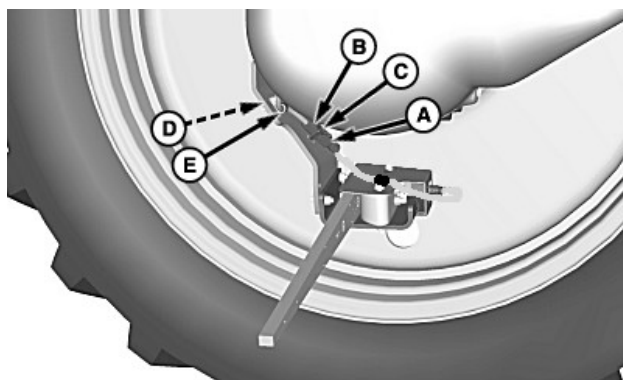
N82252—UN—04NOV08



N82251—UN—03NOV08

A—Cap Screw (14 used)
B—Crop Shield

1. **Machines Equipped with Crop Shields:** Remove and retain cap screws (A), nuts, and crop shield (B).

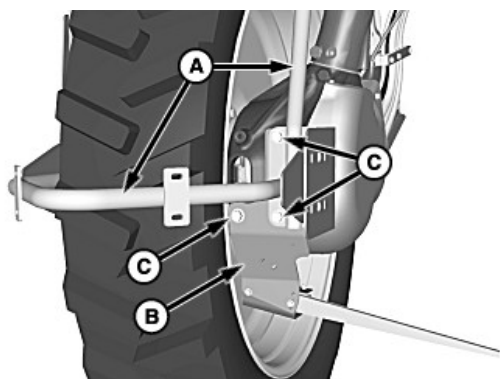


N119995—UN—17FEB16

- A—Sensor Harness
- B—RowSense™ Harness
- C—Tie Band
- D—Cap Screw
- E—P-Clamp

2. Disconnect sensor harness (A) from RowSense™ harness (B).
3. Remove cap screw (D), P-clamp (E), and tie band (C).

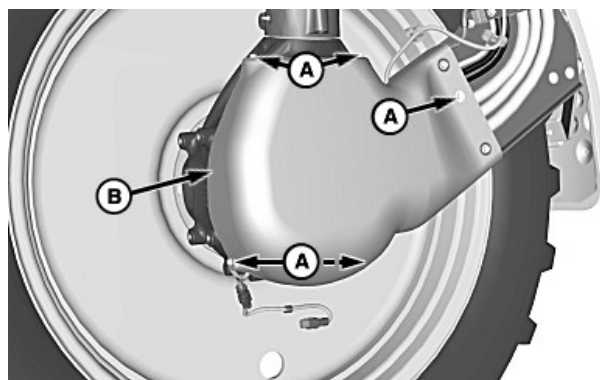
NOTE: If row-crop tires are to be used then remove only RowSense™ sensor assembly and lower bracket. Main RowSense™ bracket will not interfere with wheel and tire. Retain harness as shown in this procedure.



N119997—UN—28SEP15

- A—Crop Shield Frame
- B—RowSense™ Assembly
- C—Cap Screw (3 used)

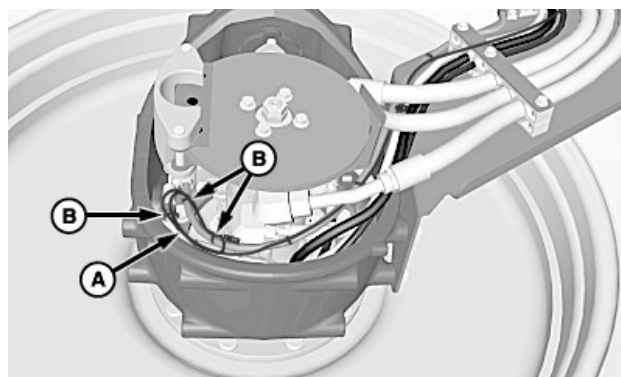
4. **Machines Equipped with Crop Shields:** Support the crop shield frame (A) using appropriate lifting device.
5. Support RowSense™ assembly (B) and remove cap screws (C).
6. Remove RowSense™ assembly from machine.



N120059—UN—29SEP15

- A—Cap Screw (5 used)
- B—Wheel Motor Cover

7. Remove and retain cap screws (A) and wheel motor cover (B).



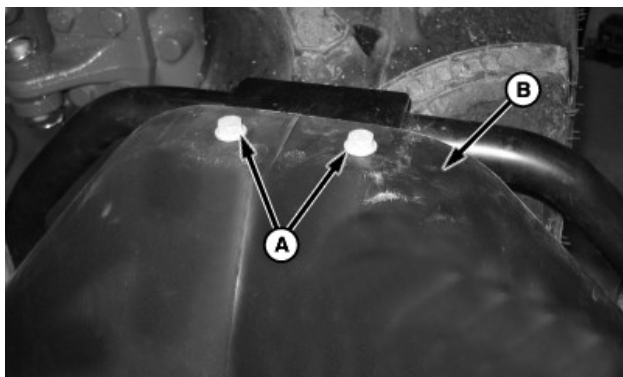
N119994—UN—28SEP15

- A—RowSense™ Harness
- B—Tie Band (3 used)

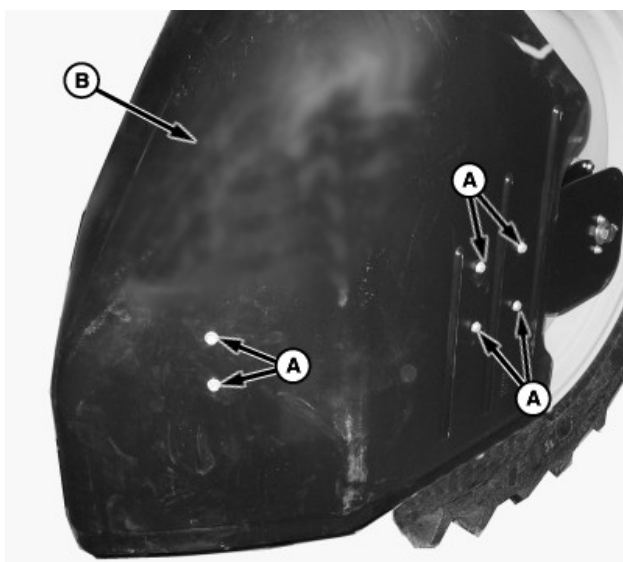
8. Coil RowSense™ harness (A) and retain as shown using tie bands (B).
9. Reinstall fender mount and crop shield frame (if equipped) using previously removed hardware.
10. Install wheel motor cover using previously removed hardware.

BN55050,0000245-19-15MAY18

Install RowSense™ Sensors and Bracket—R4023 Wide



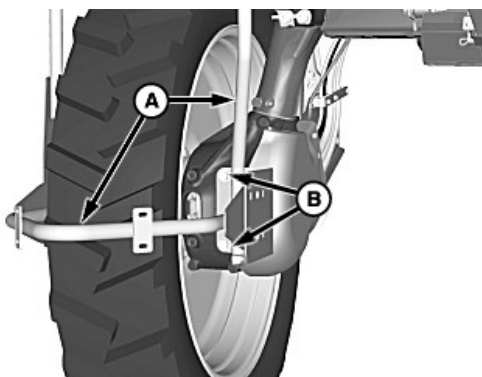
N82252—UN—04NOV08



N82251—UN—03NOV08

A—Cap Screw (14 used)
B—Crop Shield

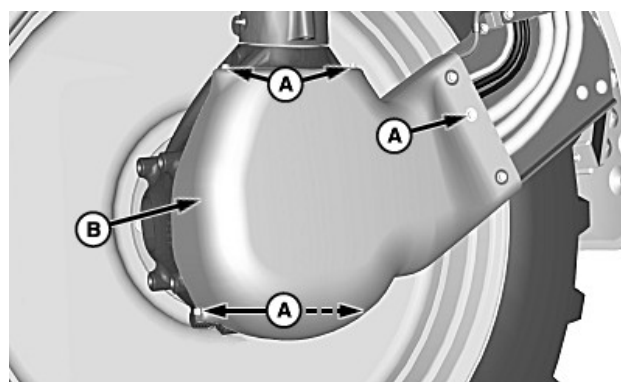
1. **Machines Equipped with Crop Shields:** Remove and retain cap screws (A), nuts, and crop shield (B).



N120040—UN—29SEP15

A—Crop Shield Frame
B—Cap Screw (2 used)

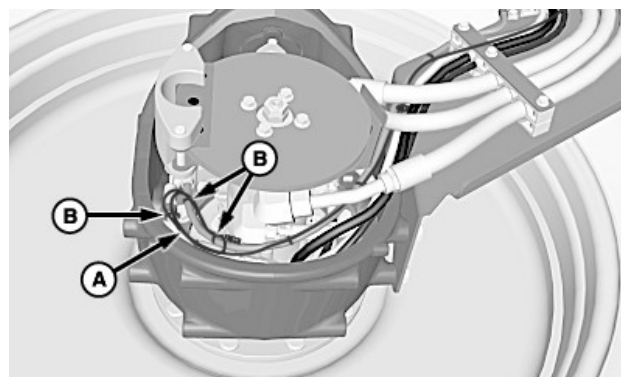
2. **Machines Equipped with Crop Shields:** Support the crop shield frame (A) using appropriate lifting device and remove cap screws (B).



N119996—UN—28SEP15

A—Cap Screw (5 used)
B—Wheel Motor Cover

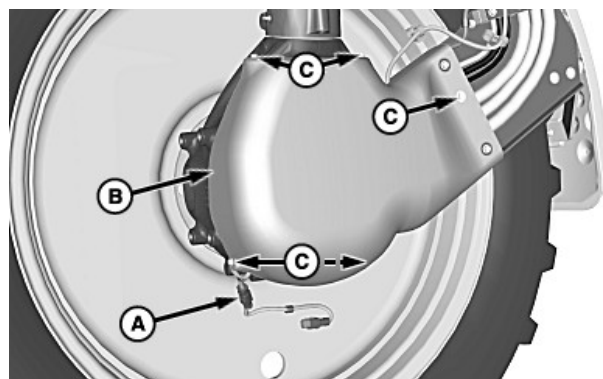
3. Remove and retain cap screws (A) and wheel motor cover (B).



N119994—UN—28SEP15

A—RowSense™ Harness
B—Tie Band (3 used)

4. Cut tie bands (B) and uncoil RowSense™ harness (A).

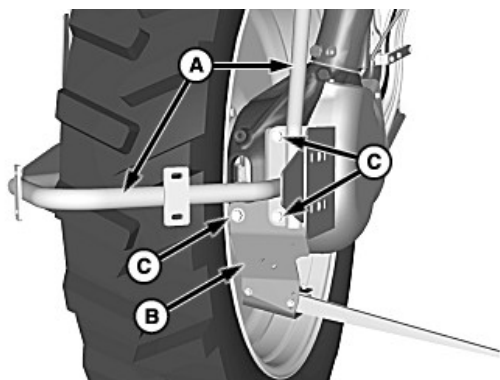


N120039—UN—29SEP15

A—RowSense™ Harness
B—Wheel Motor Cover
C—Cap Screw (5 used)

5. With RowSense™ harness (A) positioned as shown, install wheel motor cover (B) using previously removed cap screws (C).

RowSense is a trademark of Deere & Company



N119997—UN—28SEP15

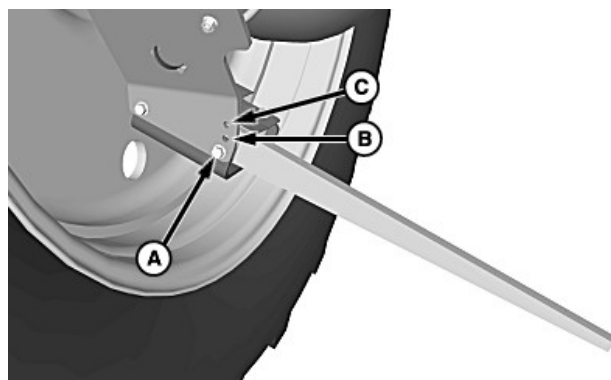
A—Crop Shield Frame
B—RowSense™ Assembly
C—Cap Screw (3 used)

NOTE: If machine is equipped with crop shields then RowSense™ assembly (B) is installed between the crop shield frame (A) and the wheel motor housing.

M16 x 45 cap screws are used for all machine configurations.

6. **Machines Equipped with Crop Shields:** Support the crop shield frame (A) using appropriate lifting device.
7. Align RowSense™ assembly (B) with the shield frame and install cap screws (C).

IMPORTANT: Apply dielectric compound to all electrical connections.

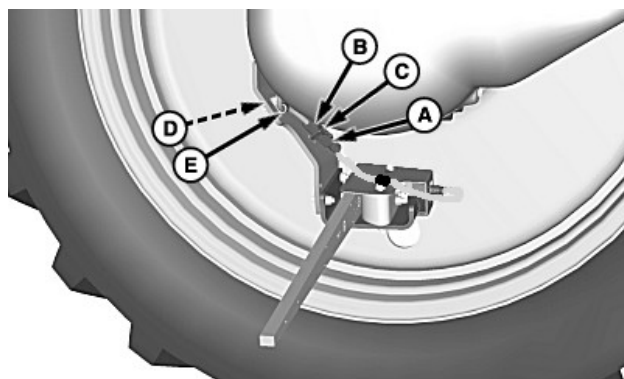


N120063—UN—02OCT15

A—Sensor Position, Lower
B—Sensor Position, Middle
C—Sensor Position, Upper

10. Adjust RowSense™ sensor in lower adjustment position (A).
11. Reinstall fender mount and crop shield frame (if equipped) using previously removed hardware.

BN55050,00001AF-19-15MAY18



N119995—UN—17FEB16

A—Sensor Harness
B—RowSense™ Harness
C—Tie Band
D—Cap Screw
E—P-Clamp

8. Connect sensor harness (A) to RowSense™ harness (B).
9. Install P-clamp (E), cap screw (D), and tie band (C).

Troubleshooting

AutoTrac™ Vision Sensor

Symptom	Problem	Solution
RowSense™ will not change from disabled to enabled.	AutoTrac™ or RowSense™ activation missing.	Purchase activation at ISG price page.
	Installed on wrong sprayer.	Install on approved sprayer. Contact your John Deere dealer or qualified service provider for details.
	GS3 2630 display software is out of date. Software older than 3.30.1232 is out of date, and newer versions may be available.	Update to latest software version.
No Vision sensor detected.	Check that Vision sensor is correctly connected.	Check sensor connection. If problem persists, contact dealer.
System not operating correctly.	Diagnostic trouble code generated.	Contact your John Deere dealer or qualified service provider.
No video image on video page.	Wrong video channel selected.	Go through all channels. If problem persists, contact your John Deere dealer or qualified service provider.
	Vision sensor lenses are not clean or are damaged.	Clean Vision sensor window.
		Contact your John Deere dealer or qualified service provider if Vision sensor is damaged.
	Diagnostic trouble code generated.	Contact your John Deere dealer or qualified service provider.
Low resolution image displayed during calibration procedure.	Display does not support high definition images.	This is normal system operation.
Vision system cannot be successfully calibrated.	Vision sensor cannot detect row due to crop conditions.	Reattempt calibration in an area that is straight without weeds and clearly defined crop rows.
	The image from the Vision sensor is not available on the display.	Go to Vision sensor diagnostics.
	The image from the Vision sensor is not focused.	Clean Vision sensor window and inspect camera for damage. If problem persists, contact your John Deere dealer or qualified service provider.

Symptom	Problem	Solution
	Vision sensor cannot detect row spacing.	Recommended for 762 mm (30 in) row spacing. If problem persists, contact your John Deere dealer or qualified service provider. Verify that camera is installed at correct height. If problem persists, contact your John Deere dealer or qualified service provider.
	System cannot detect row.	Align sprayer parallel to crop row.

CS12167,00008F4-19-22,JUL16

AutoTrac™ Vision Performance

Symptom	Problem	Solution
AutoTrac™ Status Indicator jumps from Activated status (4-pie) to Enabled status (3-pie).	The current sensor being used may have become unplugged.	Check diagnostics to determine sensor health.
	Vision sensor cannot detect crop rows (low confidence).	Recalibrate system. Clean Vision sensor window. Set up A--B line to revert to GPS in challenging conditions. Operate in crop rows that are not canopied. Operate in crop rows that have fewer weeds/crop residue.
	Windy conditions are causing undefined rows.	Steer the machine manually. Operate using GPS guidance. Wait for weather conditions to improve.
	Terrain causes the vision sensor to lose sight of the crop row momentarily.	Steer the machine manually. Operate using GPS guidance.
Sprayer immediately steers and runs over crop.	Sensor offset is too large.	Reset sensor offset to zero (default). Readjust as necessary.

Troubleshooting

Symptom	Problem	Solution
	"GPS--Row" Row Entry Mode is selected with A--B line which does not match crop rows.	Setup A--B line which matches crop rows.
	Engaging AutoTrac™ Vision too early when entering a new pass causes machine to veer off course when leaving headlands.	Engage AutoTrac™ Vision after ensuring machine is parallel with crop rows and machine is in the desired crop row.
Sprayer gradually runs over crop.	Sprayer consistently drives to one side of the center of the crop row gap.	Clean the Vision sensor window.
		Operate in fields with less side slope
		Change the sensor offset.
	Operating tires in guess rows.	Avoid driving in or straddling guess rows.
	System not recalibrated in changing crop conditions, such as crop height or lighting conditions.	Recalibrate system.
	Operating too fast for system limits.	Lower speed. If problem persists, contact your John Deere dealer or qualified service provider.
	System does not switch to GPS.	Reset A—B line.
	Lights may be inadequate when operating system in short crop conditions.	Install premium lighting package.
	Not enough space to steer in a row.	Change to smaller tire size.
	Cresting hills which are too steep.	Reduce speed.
		Record an Adaptive Curve.
	Vision sensor cannot detect crop rows (low confidence).	Operate in areas with fewer weeds, taller plants, and/or better lighting.
	Vision system may not perform as well in areas with high crop residue (i.e. corn on corn) and on side hills.	Operate at slower speeds or drive manually through these areas until confidence is improved and re-engage Vision.
	System switches to GPS too often.	Disable system and operate manually or use AutoTrac™.
Sprayer "S-ing".	Vision sensor is not detecting consistent crop.	Recalibrate system.

Symptom	Problem	Solution
	AutoTrac™ is not tuned to operate in these conditions.	Reset Steering Sensitivity to 100 (default) and reset Advanced Settings to 100 (default). Adjust Advanced Settings to make steering more aggressive or less aggressive. If problem persists, contact your John Deere dealer or qualified service provider. Slow down, use different tires, change soil conditions.
Sprayer runs over crop in curved rows.	Row curvature is excessive.	Improve performance by recording an Adaptive Curve. Lower speed.
Sprayer runs over crop during night operation	Check that all lights are clean and working well.	Clean and repair or replace lights. Clean the Vision sensor window. Install premium lighting package.
Sprayer runs over crop in windy conditions.	Wind causes crop row to be difficult to define.	Operate using RowSense™ (if installed). Use shift buttons to adjust machine tracking for each pass. Steer the machine manually.

CS12167,00008F5-19-29JUL16

AutoTrac™ RowSense™ Sensor

Symptom	Problem	Solution
RowSense™ will not change from disabled to enabled.	AutoTrac™ or RowSense™ activation missing.	Purchase activation at ISG price page.
	Installed on wrong sprayer.	Installed on approved sprayer.
	No RowSense™ sensor detected (Diagnostic page showing steering left and right voltage as zero).	Check hardware installation is correct and all connectors are connected. If problem persists, contact your John Deere dealer or qualified service provider.

Symptom	Problem	Solution
	GS3 2630 display software is out of date. Software older than 3.30.1232 is out of date, and newer versions may be available.	Update to latest software version.

OUO6092,00009E1-19-24SEP15

AutoTrac™ RowSense™ Performance

Symptom	Problem	Solution
AutoTrac™ Status indicator jumps from Activated status (fourth pie) to Enabled status (third pie).	The current sensor being used may have become unplugged.	Check diagnostics to determine sensor health.
	Sensor is not touching consistent crop stalk and losing engagement.	Operate with plants that are at least 914 mm (3.0 ft) in height.
	Left and right sensors are connected backwards.	Actuate paddle and confirm that voltage corresponds to the proper side shown on the diagnostic page.
Sprayer immediately steers and runs over crop.	Sensor offset is too large.	Reset sensor offset to zero (default). Readjust as necessary.
	"GPS--Row" Row Entry Mode is selected with A--B line which does not match crop rows.	Setup A--B line which matches crop rows.
		Change to "Row" Row Entry Mode.
	Engaging RowSense™ too early when entering new pass causes sprayer to veer off course when leaving headlands.	Engage RowSense™ after ensuring front wheels are parallel with crop rows and both RowSense™ paddles are engaged into crop.
Sprayer gradually runs over crop.	System does not switch to GPS.	Reset A—B line.
	Sprayer consistently drives to one side of the center of the crop row.	Clean the paddle and sensor.
		Operate in fields with less side slope.
		Change the sensor offset.
	Operating tires in guess rows.	Avoid driving in or straddling guess rows.
	Not enough space to steer in a row.	Change to smaller tire size (380 or narrower tire width recommended).
	System switches to GPS too often.	Disable system and operate manually or use AutoTrac™.

Symptom	Problem	Solution
Sprayer “S-ing”.	Sensor is not touching consistent crop stalk and losing engagement.	Lower angle position of paddles. Operate with plants that are at least 914 mm (3.0 ft) in height. Tread in-out to operate with the centerline of all tires 381 mm (15 in) from the centerline of the crop row.
	AutoTrac™ is not tuned to operate in these conditions.	Reset Steering Sensitivity to 100 (default) and reset Advanced Settings to 100 (default). Adjust Advanced Settings to make steering more aggressive or less aggressive. If problem persists, contact your John Deere dealer or qualified service provider.
		Slow down, use different tires, change soil conditions.
	Operating too fast for system limits.	Lower speed. If problem persists, contact your John Deere dealer or qualified service provider.
Sprayer runs over crop in curved rows.	Row curvature is excessive.	Improve performance by recording an Adaptive Curve. Lower speed.

OUO6092,00009E2-19-19NOV15

AutoTrac™ Status Indicator

Symptom	Problem	Solution
AutoTrac™ Status Indicator fails to show Installed indicator (first pie).	AutoTrac™ Vision or AutoTrac™ RowSense™ hardware not installed.	Install AutoTrac™ Vision or AutoTrac™ RowSense™ hardware.
	AutoTrac™ or RowSense™ not activated.	Activate AutoTrac™ or RowSense™.
AutoTrac™ Status Indicator fails to show Configured indicator (second pie).	Guidance not turned on.	Turn Guidance on.
	AutoTrac™ not setup.	Set up AutoTrac™.
	A—B line needs to be created.	Create A—B line.

Troubleshooting

Symptom	Problem	Solution
	Trouble codes generated.	Record trouble code. Remedy trouble code issues.
	GPS absent.	Check StarFire system. Wait for clear sky.
	Operating with booms folded and in transport gear.	Unfold booms or reduce gear.
AutoTrac™ Status Indicator fails to show Enabled indicator (third pie).	AutoTrac™ button not pressed.	Press AutoTrac™ button.
AutoTrac™ Status Indicator fails to show Activated indicator (fourth pie).	Resume button not pressed.	Press Resume switch.

OUO6092,00009E5-19-05OCT15

Specifications

The EC Declaration of Conformity applies only to machines which bear the CE mark

EC Declaration of Conformity

**Deere & Company
Moline, Illinois U.S.A.**

The person named below declares that:

Product: RG3 Controller

Part Number: SRG3

Fulfills all relevant provisions and essential requirements of the following directives:

Directive	Number	Certification Method
Electromagnetic Compatibility (EMC)	2004/108/EC	Self Certified, per Annex II of the Directive

The product is in conformity with the following standards and/or other normative documents:

- EN 55022:2010/AC:2011
- EN 55024:2010
- EN ISO 14982:2009

Name and address of the person in the European Community authorized to compile the technical construction file:

Brigitte Birk
John Deere GmbH & Co. KG
Mannheim Regional Center (Zentralfunktionen)
John Deere Strasse 70
Mannheim, Germany D-68163

Place of declaration: Urbandale, Iowa U.S.A.

Date of declaration: 29 October 2015

Name: Ryan R. White

Title: Development Manager Communications & Automation

Manufacturing unit: John Deere Intelligent Solutions Group

OU06092,00009EA-19-19NOV15



DXCE01—UN—28APR09

The EC Declaration of Conformity applies only to machines which bear the CE mark

EC Declaration of Conformity

**Deere & Company
Moline, Illinois U.S.A.**

The person named below declares that:

Product: Vision Guidance Camera

Part Number: SVRG

Fulfills all relevant provisions and essential requirements of the following directives:

Specifications

Directive	Number	Certification Method
Electromagnetic Compatibility (EMC)	2004/108/EC	Self Certified, per Annex II of the Directive

The product is in conformity with the following standards and/or other normative documents:

- EN 55024:2010
- EN ISO 14982:2009

- EN 55022:2010/AC:2011

Name and address of the person in the European Community authorized to compile the technical construction file:

Brigitte Birk
John Deere GmbH & Co. KG
Mannheim Regional Center (Zentralfunktionen)
John Deere Strasse 70
Mannheim, Germany D-68163

Place of declaration: Urbandale, Iowa U.S.A.

Date of declaration: 29 October 2015

Name: Ryan R. White

Title: Development Manager Communications & Automation

Manufacturing unit: John Deere Intelligent Solutions Group

OUO6092,00009EB-19-19NOV15



DXCE01—UN—28APR09

The EC Declaration of Conformity applies only to machines which bear the CE mark

EC Declaration of Conformity

**Deere & Company
Moline, Illinois U.S.A.**

The person named below declares that:

Product: TAC Sensor

Part Number: SXRG

Fulfills all relevant provisions and essential requirements of the following directives:

Directive	Number	Certification Method
Electromagnetic Compatibility (EMC)	2004/108/EC	Self Certified, per Annex II of the Directive

The product is in conformity with the following standards and/or other normative documents:

- EN 55024:2010
- EN ISO 14982:2009

- EN 55022:2010/AC:2011

Name and address of the person in the European Community authorized to compile the technical construction file:

Brigitte Birk
John Deere GmbH & Co. KG
Mannheim Regional Center (Zentralfunktionen)
John Deere Strasse 70
Mannheim, Germany D-68163

Place of declaration: Urbandale, Iowa U.S.A.

Date of declaration: 29 October 2015

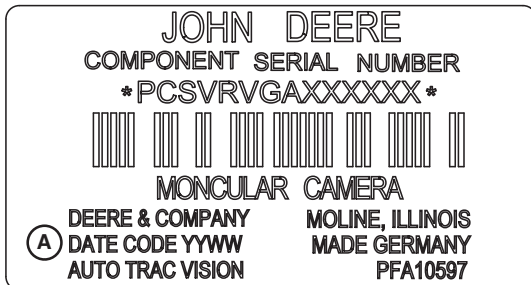
Name: Ryan R. White
Title: Development Manager Communications & Automation
Manufacturing unit: John Deere Intelligent Solutions Group



DXCE01—UN—28APR09
OU06092,00009EC-19-19NOV15

Identify Date Code

Vision Guidance Camera



N126317—UN—14OCT16
Product Label Example



- A—Date Code (Date of Manufacture)
- B—Last Two Numbers of Year of Manufacture
- C—Week Number of Calendar Year of Manufacture

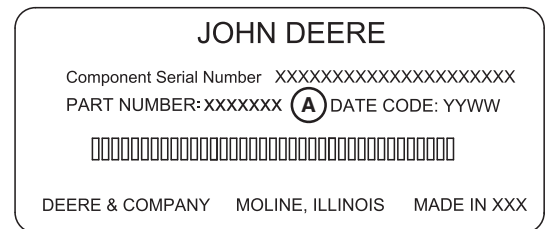
Use the date code (A) on the Monocular Camera product label to identify the date of manufacture. “YY” (B) identifies the last two numbers of the year of manufacture; “WW” (C) identifies the week number of calendar year of manufacture.

NOTE: The week number of manufacture ranges between 01-53.

Date Code		
YY	Last Two Numbers of Year of Manufacture	Example: 13=2013 14=2014 15=2015
WW	Week Number of	Example: 01, 02, 03,...53

Date Code		
	Calendar Year of Manufacture	

TAC Sensor



N126318—UN—14OCT16
Product Label Example



- A—Date Code (Date of Manufacture)
- B—Last Two Numbers of Year of Manufacture
- C—Week Number of Calendar Year of Manufacture

Use the date code (A) on the TAC Sensor product label to identify the date of manufacture. “YY” (B) identifies the last two numbers of the year of manufacture; “WW” (C) identifies the week number of calendar year of manufacture.

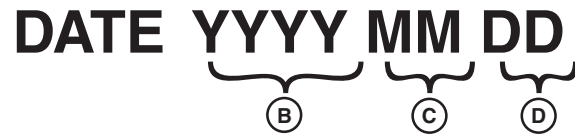
NOTE: The week number of manufacture ranges between 01-53.

Date Code		
YY	Last Two Numbers of Year of Manufacture	Example: 13=2013 14=2014 15=2015
WW	Week Number of Calendar Year of Manufacture	Example: 01, 02, 03,...53

RG3



Product Label Example N126320—UN—14OCT16



Date Code Example

N126319—UN—14OCT16

- A—Date Code (Date of Manufacture)
- B—Year of Manufacture
- C—Month of Manufacture
- D—Day of Manufacture

Use the date code (A) on the RG3 product label to identify the date of manufacture. “YYYY” (B) identifies the year of manufacture; “MM” (C) identifies the month manufacture; “DD” (D) identifies the day of manufacture.

CS12167,000092A-19-17OCT16

Eurasian Economic Union—EAC

Е в р а з и й с к и й э к о н о м и ч е с к и й с о ю з (Е А Э С)

Информация об изделиях, которые имеют знак соответствия требованиям технических регламентов Евразийского экономического союза (ЕАЭС)

Производитель: Компания Deere & Company
г. Молин, Штат Иллинойс, США

Модель: Камера системы навигации AutoTrac Vision
Сделано в Германии.

Наименование и адрес уполномоченного представителя на территории Евразийского экономического союза (ЕАЭС): Общество с ограниченной ответственностью "Джон Дир Русь"

Адрес:
142050, Россия, Московская область, Домодедовский район, г. Домодедово, микрорайон "Белые столбы", владение "Склады 104," стр. 2.

Для получения технической поддержки обращайтесь к дилеру, обслуживающему вашу организацию.

EAC

N126323—UN—18OCT16

Eurasian Economic Union - EAC

Information for products that bear conformity mark of the Eurasian Economic Union member states

Manufacturer: Deere & Company
Moline, Illinois U.S.A

Model: AutoTrac Vision Camera
Made in Germany

Name and address of the authorized representative in the Eurasian Economic Union:
Limited Liability Company "John Deere Rus"

Address: 142050, Russia, Moscow region, Domodedovo district, Domodedovo, Beliye Stolbi micro district, vladenye "Warehouse 104," Building 2.

For technical support, please contact your dealer.



N126324—UN—18OCT16

Евразийский экономический союз (ЕАЭС)

Информация об изделиях, которые имеют знак соответствия требованиям технических регламентов
Евразийского экономического союза (ЕАЭС)

Производитель: Компания Deere & Company
г. Молин, Штат Иллинойс, США

Модель: Датчик ТАС
Сделано в Германии

Наименование и адрес уполномоченного представителя на территории Евразийского экономического союза
(ЕАЭС): Общество с ограниченной ответственностью "Джон Дир Русь"

Адрес:
142050, Россия, Московская область, Домодедовский район, г. Домодедово, микрорайон "Белые столбы", владение "Склады 104," стр. 2.

Для получения технической поддержки обращайтесь к дилеру, обслуживающему вашу организацию.



N126325—UN—18OCT16

Eurasian Economic Union - EAC

Information for products that bear conformity mark of the Eurasian Economic Union member states

Manufacturer: Deere & Company
Moline, Illinois U.S.A

Model : TAC Sensor
Made in Germany

Name and address of the authorized representative in the Eurasian Economic Union:
Limited Liability Company "John Deere Rus"

Address: 142050, Russia, Moscow region, Domodedovo district, Domodedovo, Beliye Stolbi micro district, vladenye "Warehouse 104," Building 2.

For technical support, please contact your dealer.



N126326—UN—18OCT16

Евразийский экономический союз (ЕАЭС)

Информация об изделиях, которые имеют знак соответствия требованиям технических регламентов
Евразийского экономического союза (ЕАЭС)

Производитель: Компания Deere & Company
г. Молин, Штат Иллинойс, США

Модель: Контроллер RG3
Сделано в Чехии

Наименование и адрес уполномоченного представителя на территории Евразийского экономического союза
(ЕАЭС): Общество с ограниченной ответственностью "Джон Дир Русь"

Адрес:
142050, Россия, Московская область, Домодедовский район, г. Домодедово, микрорайон "Белые столбы", владение "Склады 104," стр. 2.

Для получения технической поддержки обращайтесь к дилеру, обслуживающему вашу организацию.



N126321—UN—18OCT16

Eurasian Economic Union - EAC

Information for products that bear conformity mark of the Eurasian Economic Union member states

Manufacturer: Deere & Company
Moline, Illinois U.S.A

Model: RG3 Controller
Made in Czech Republic

Name and address of the authorized representative in the Eurasian Economic Union:
Limited Liability Company "John Deere Rus"

Address: 142050, Russia, Moscow region, Domodedovo district, Domodedovo, Beliye Stolbi micro district, vladenye "Warehouse 104," Building 2.

For technical support, please contact your dealer.



N126322—UN—18OCT16
CS12167,000092B-19-17OCT16

Machine Design Life

This machine is designed and manufactured to provide a long life of productive operation, however actual attainable life depends on a number of factors including the severity of working conditions and completion of recommended maintenance. (See the Service section of this manual.)

Periodically inspect and review the machine in conjunction with your John Deere dealer. The review may result in recommendations for service, component repair, remanufacture or replacement, or, if at the end of life, that the machine be removed from operation. (See separate decommissioning section of this manual for information on disposal and recycling of machine components.)

No machine should be operated if safety-related components are missing or in need of service. All missing or damaged safety-related components, including safety signs, should be repaired or replaced before operating.

DX,MACH,DESIGN,LIFE-19-14SEP15

Images Collected From Camera Devices



ZX256135—UN—09SEP15

To enhance operation and functionality some systems can be installed on the machine that use images from camera devices.

The images from the camera device are directed at the field, crop, machine, and ancillary machines during the system's use.

These camera devices can also capture images of the operator or bystanders during system operation.

Be aware that images captured by these cameras can be:

- Shown to the operator in the cab.

- Recorded within the system for troubleshooting.
- Recorded within the system for improving system performance.

To prevent images from being captured by cameras used in these systems, refer to the operator manual for instruction on how to turn off the system.

OUO6092,00009EE-19-17NOV15

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