



SELF

# GreenStar™ Lightbar

## OPERATOR'S MANUAL GreenStar Lightbar

OMZ106029 Issue E8 (ENGLISCH)

### 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.

**John Deere Werke Zweibrücken**  
Worldwide Edition  
Printed in U.S.A.



OMZ106029

# Introduction

## Foreword

WELCOME TO GREENSTAR PRECISION FARMING SYSTEMS offered by John Deere. The GreenStar™ Lightbar is an easy-to-use guidance system.

READ THIS MANUAL carefully to learn how to operate and service your GreenStar™ Lightbar system correctly. Failure to do so could result in personal injury or equipment damage.

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your John Deere GreenStar™ Lightbar system and should remain with the system when you sell it.

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

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the Identification Numbers section. Accurately record all the numbers to help in tracing the machine should it be stolen. Your dealer also needs these numbers when you order parts. File the identification numbers in a secure place off the machine.

WARRANTY is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The GreenStar™ Lightbar 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 GreenStar™ Lightbar 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.

**IMPORTANT: This manual provides necessary information for appropriate operation of the GreenStar™ Lightbar system.**

ENJOY your new GreenStar™ Lightbar system from John Deere.

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

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A John Deere ILLUSTRATION® Manual

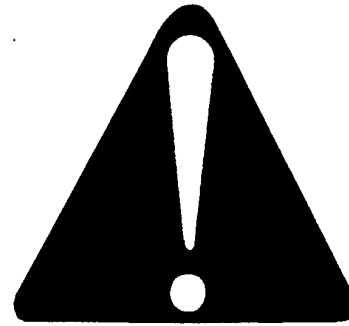


# Safety

## Recognize Safety Information

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

Follow recommended precautions and safe operating practices.



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

T81389 -UN-07DEC88

## Understand Signal Words

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

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



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

TS187 -19-30SEP88

## Follow Safety Instructions

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

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 -19-03MAR93-1/1

TS201 -UN-23AUG88

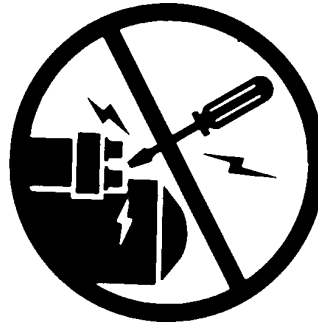
## Safety



**CAUTION:** Avoid possible injury or death from machinery runaway.

Do not connect auxiliary equipment to starter terminals. If normal circuitry is bypassed by shorting across starter terminals, tractor will start in gear and move.

Stop tractor engine and remove key.



TS177 -UN-11JAN89

- Do NOT mount Lightbar so that it obstructs operator's field of view.
- Use tie straps and proper routing of harness to avoid trip hazard.
- Do NOT cover warning labels or indicators.
- Install within reach of operator.

OUC002,00029A9 -19-18JUN08-1/1

## Operate Guidance Systems Safely

The GreenStar™ Lightbar system is intended to aid the operator in performing field operations more efficiently. The operator is always responsible for machine path. To prevent injury to operator and bystanders:

- Remain alert and pay attention to surrounding environment.
- Turn off or remove the GreenStar™ Lightbar system during road transport. Do not attempt to operate this system on roadways.
- Steer vehicle as 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 obstacles or bystanders in machine path.

OUC002,00029AC -19-07JUL08-1/1

### Handle Global Positioning Receivers and Brackets Safely

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

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

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



TS249 -UN-23AUG88

DX,WW,RECEIVER -19-08JAN08-1/1

# Operating Lightbar

## Lightbar Guidance System



GreenStar™ Lightbar system shows your position in field relative to track that you determine with your first pass through field. Using LEDs on your Lightbar display, you know which way to steer in order to keep your path parallel with your last.

The Lightbar system can be used in a standalone configuration with just a StarFire receiver or can be

used with a GreenStar™ display in conjunction with the GPS receiver (see "Lightbar System—Standalone Configuration" or "Lightbar System—Display Configuration" in this Section).

OUC002,0002984 -19-18JUN08-1/1

## General Installation Instructions

Follow these guidelines to correctly install and maintain the GreenStar™ Lighbar system:

- Install within reach of the operator.
- Do not cover up decals or indicators.
- Do not obstruct operator's view.
- Do not store in direct sunlight.
- Do not pressure wash lightbar.
- Do not use harsh chemicals (such as solvents or gasoline) or unauthorized rubber cleaners and conditioners to clean the cup. Contact your John Deere Dealer.

The GreenStar™ Lightbar suction cup is intended to be attached on the front windshield of tractor cab.

**IMPORTANT: Mistreatment or misuse may damage a suction cup or otherwise create conditions which could cause the suction cup to fail, resulting in an unexpected release.**

- Do not allow anything to interfere with free movement of the plunger while the cup is attached. This could prevent the red line from alerting the user of vacuum loss.
- Remove Lightbar and suction cup from windshield when not in use.
- Keep suction cup clean.
- Re-attach suction cup after 24 hours latest.

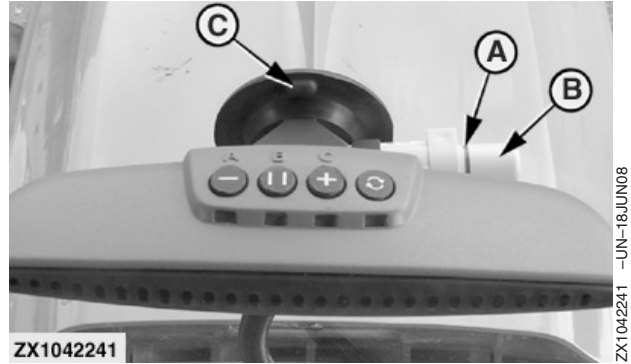
*NOTE: Read also instructions and cautions contained in the suction cup instruction manual.*

OUCC002,00029AD -19-07JUL08-1/1

## Operating Lightbar Console Suction Cup

**IMPORTANT:** Use the cup at temperatures from -18 to 49°C (0 to 120°F). Moisture or contaminants can reduce the slip resistance of the cup. The red line indicator (A) may not perform reliably at elevations above 1500 m (5000 ft.).

Read also instructions and cautions contained in the suction cup instruction manual.



A—Red line  
B—Pump plunger  
C—Release pad

The manual pump removes air from between the rubber pad and the windshield contact surface. A red line (A) on the pump plunger (B) serves as a vacuum indicator.

The two release pads (C) allow the cup to disengage completely.

**NOTE:** A check valve allows the operator to re-pump the cup without removing it from the contact surface.

### 1. To Attach:

- Clean the windshield contact surface and, if necessary, the inner face of the suction cup.
- Position the cup so the red line (A) is visible in case it should appear (loss of vacuum) while the cup is attached.
- Pump the plunger (B) until the cup attaches completely. Stop pumping as soon as the red line (A) is hidden.
- Check the plunger (B) frequently to make sure the cup remains securely attached. If the red line (A) appears, pump the plunger (B) until the red line (A) is hidden again.

**NOTE:** Re-attach suction cup after 24 hours latest.

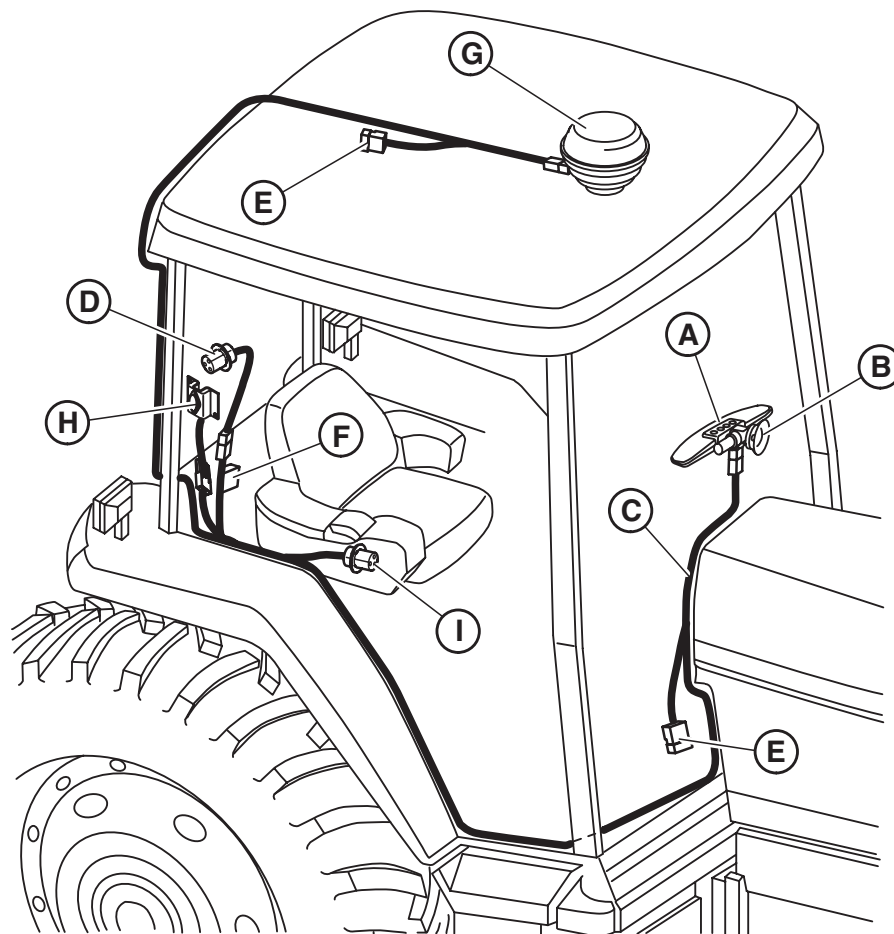
### 1. To Release:

Hold the Lightbar console with one hand.

2. Pull one of the release tabs (C) until the cup disengages completely.

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## Lightbar System—Standalone Configuration



ZX1041619

Standalone Harness Routing

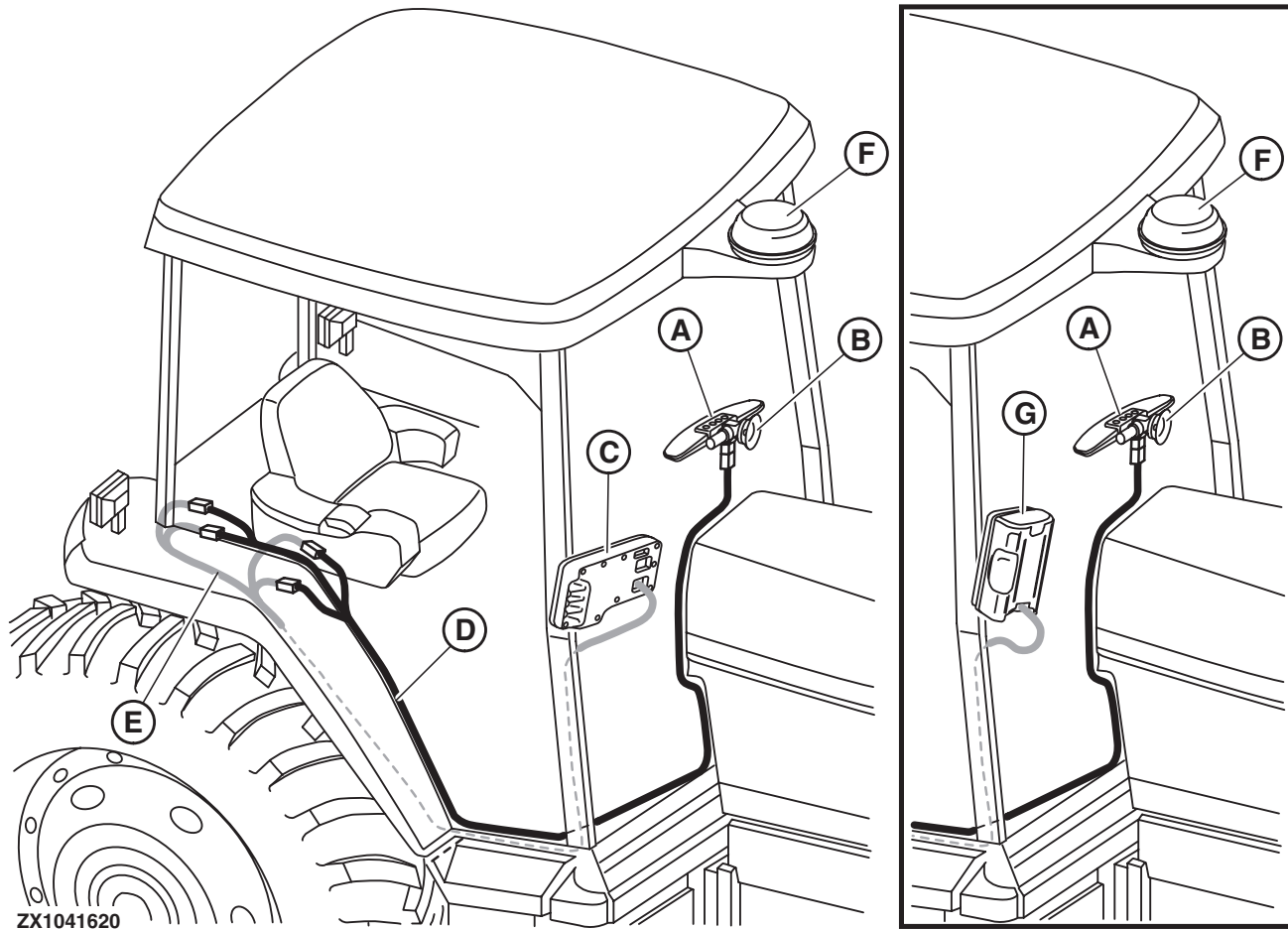
- |                                       |                              |                     |                                                 |
|---------------------------------------|------------------------------|---------------------|-------------------------------------------------|
| A—Lightbar                            | E—CAN Bus active terminators | G—StarFire receiver | I—SERVICE ADVISOR™ diagnostic adapter/connector |
| B—Suction cup                         | F—Fuse—10A                   | H—Suppression diode |                                                 |
| C—Power supply harness                |                              |                     |                                                 |
| D—Power adapter harness (if required) |                              |                     |                                                 |

**NOTE:** Connect power adapter harness (D) to convenience outlet power connector.

Use tie straps to fix the harness (C) routing.

OUCC002,00029AE -19-08JUL08-1/1

## Lightbar System—Display Configuration



ZX1041620

Display Configuration—Without Power Adapter Harness

A—Lightbar  
B—Suction cup  
C—GS2 1800 Display

D—R.h console harness  
E—GreenStar™ Ready Harness  
2- and 4- pin connectors

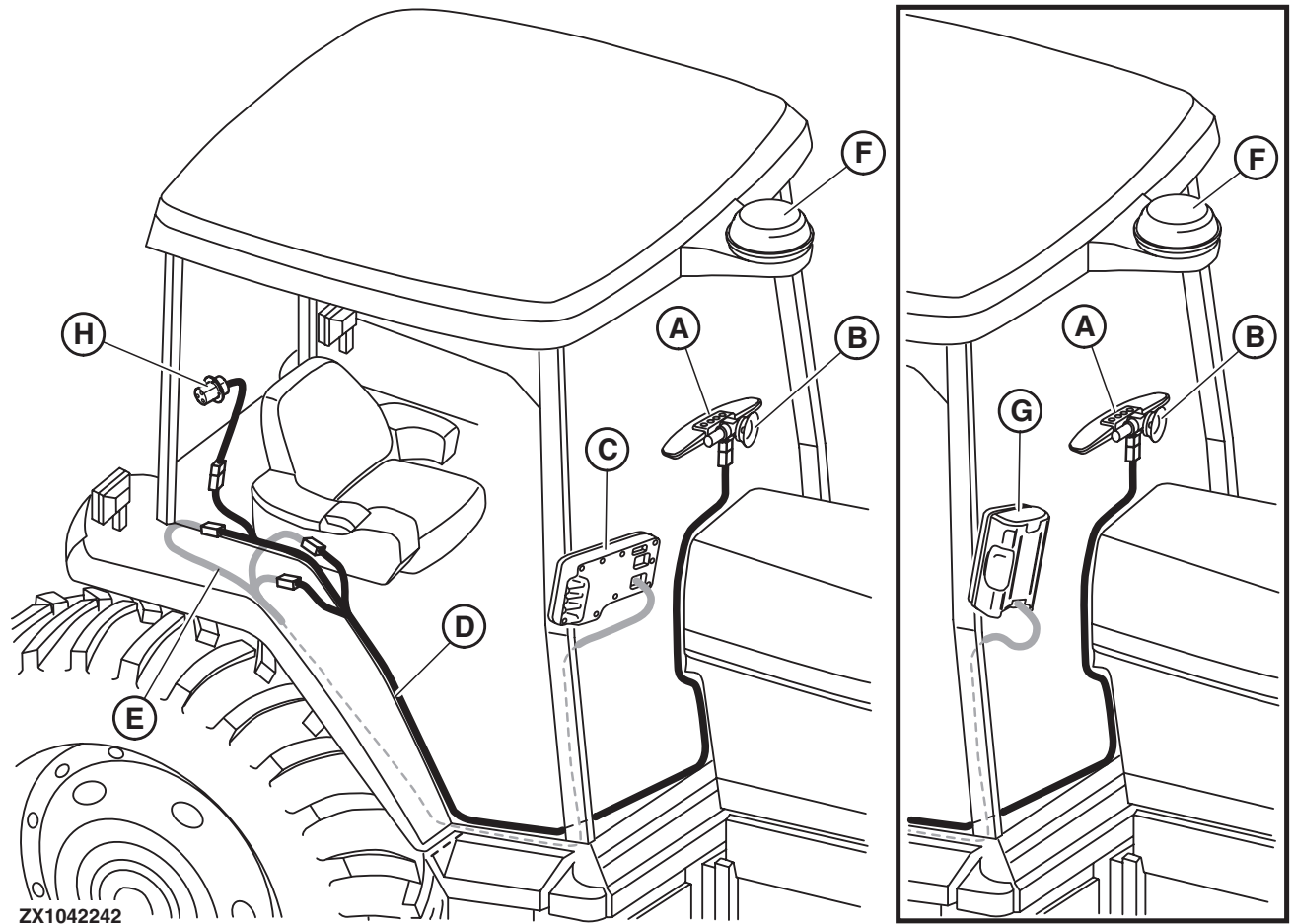
F—StarFire receiver

G—Original GreenStar™  
display

ZX1041620 -UN-24JUN08

Continued on next page

OUCC002,0002996 -19-08JUL08-1/2



ZX1042242

Display Configuration—With Power Adapter Harness

A—Lightbar  
B—Suction cup  
C—GS2 1800 Display

D—R.h console harness  
E—GreenStar™ Ready Harness  
2- and 4- pin connectors

F—StarFire receiver  
G—Original GreenStar™  
display

H—Power adapter harness

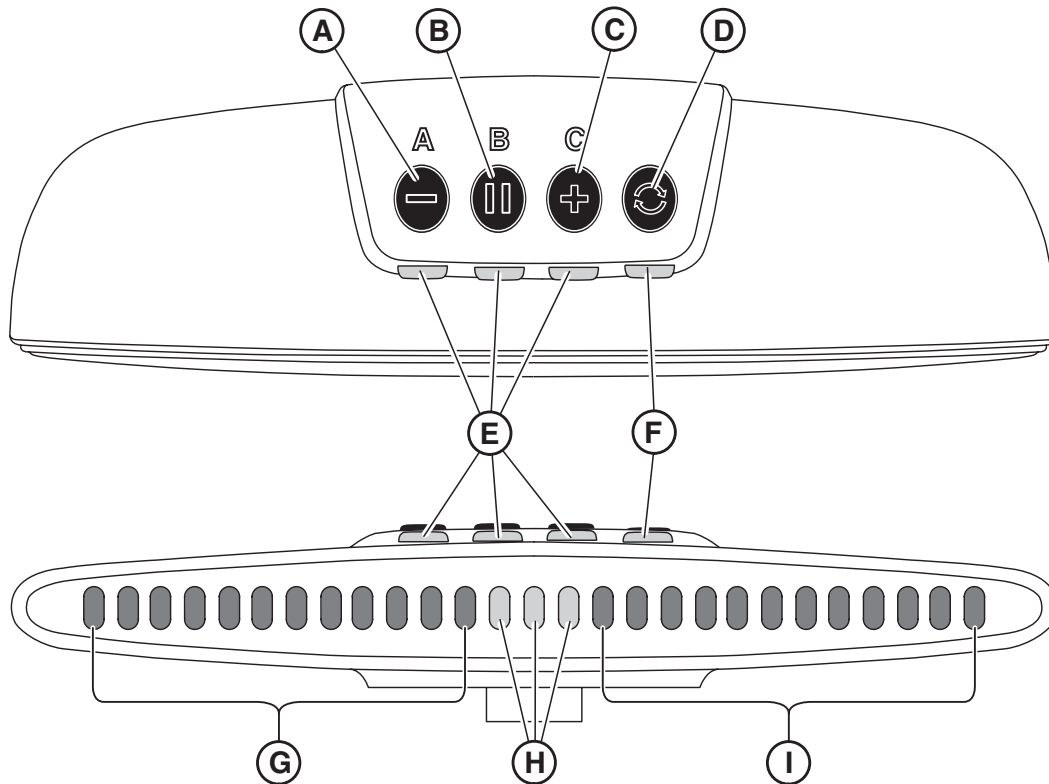
**NOTE:** GS2 1800 (C) and Original GreenStar™ (G) displays are optional. With the R.h. console

harness (D) the Lightbar system can be used in standalone or companion mode.

OUC0002.0002996 -19-08JUL08-2/2

ZX1042242 -UN-07JUL08

## Lightbar System Description



ZX1041592

A—Set point A/Decrease LED Brightness/Decrease Spacing Button  
B—Set point B/Center Track Button  
C—Set point C/Increase LED Brightness/Increase Spacing Button

D—Mode Button  
E—Operator Input Indicator LED  
F—GPS Signal Quality Indicator LED

G—L.h. Offset Tracking/Decrease Tracking Indicator LEDs (Red)  
H—Center Tracking Indicator LEDs (Green)

I—R.h.Offset Tracking/Increase Tracking Indicator LEDs (Red)

**NOTE:** The Lightbar performs a 5 seconds LED test with all LEDs illuminated upon power up.

The Lightbar system is designed to be connected to the vehicle CAN Bus or to be operated as a standalone system and can be used with or without a GreenStar™ display in conjunction with the StarFire GPS receiver (see "Lightbar System—Standalone Configuration" or "Lightbar System—Display Configuration" in this Section).

**NOTE:** Whenever a display is detected on the CAN bus, the Lightbar system will be placed into companion mode. In this mode, the Lightbar buttons are disabled and all guidance setup is performed in the GreenStar™ display. Refer to relevant Display Operator's Manual.

The Lightbar system turns on with the vehicle key switch.

Continued on next page

OUEC002,00029B0 -19-07JUL08-1/2



**CAUTION:** The Lightbar system **MUST** be turned **OFF** during road transport. Press and hold Mode Button (D) for 2 seconds to turn off the Lightbar.

As a standalone system, the Lightbar can be operated in three different modes by pressing Mode button (D). Depending on the mode selected, the buttons (A), (B) and (C) will have different functionality (see "Operating Lightbar System" in this Section):

1. **Run Mode:** Allows the operator to adjust LED brightness by using buttons (A) or (C) or do a center track by using button (B).
2. **Setup Mode:** Allows the operator to setup tracking by using buttons (A), (B) and (C).
3. **Adjust Mode:** Allows the operator to adjust track spacing by using buttons (A) or (C).

**IMPORTANT:** The Lightbar system checks the GPS signal quality. Either WAAS, EGNOS, SF1, or SF2 is required for Lightbar system to function. Without the required differential quality, no navigation LEDs will be displayed on the lightbar.

A Starfire Configurator Software is available from Stellar Support

(<http://stellarsupport.deere.com>) for activating and setting up SF1 and SF2 signals from a laptop. An additional harness is required—Contact your John Deere dealer.

The LED (F) beneath the mode button (D) indicates the GPS signal quality in the following manner:

**Green** = Good quality.

**Amber** = Signal available but not sufficient to drive parallel tracking.

**Red** = no GPS signal available.

**Red flashing** = no GPS receiver detected.

**IMPORTANT:** The tracking LED navigation is possible when steering in forward direction to the desired path only. The Lightbar system does not support the vehicle reverse operation.

At first time boot-up, the factory settings are:

- Track Spacing = 5 m (16 ft 4.8 in.)

## Operating Lightbar System

The Lightbar system can be operated under three operating modes.

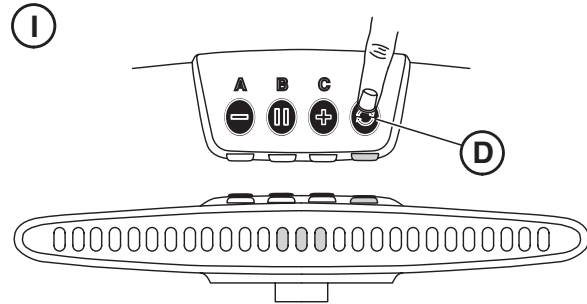
The **Run Mode** (I) is automatically activated (normal operation) if a valid setup has been performed (Refer to "Operating Lightbar Under Run Mode").

**NOTE:** If a valid setup has not been performed the Lightbar automatically starts under Setup mode.

Press the button (D) to select the **Setup Mode** (II)—The LED beneath the **A** button is activated to confirm selection of Setup Mode (Refer to "Operating Lightbar Under Setup Mode").

Press the button (D) to select the **Adjust Mode** (III)—The LEDs beneath the **A** and **C** buttons are activated to confirm selection of Adjust Mode (Refer to "Operating Lightbar Under Adjust Mode").

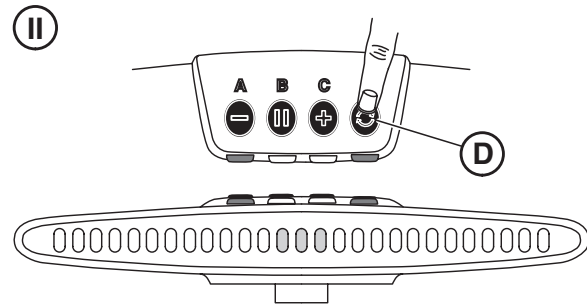
- I—Run Operating Mode
- II—Setup Operating Mode
- III—Adjust Operating Mode
- D—Operating Mode Selection Button



ZX1041593

Run Operating Mode

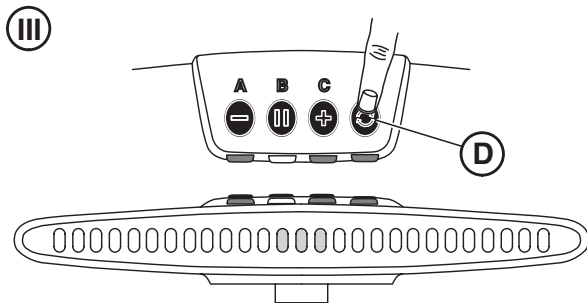
ZX1041593 -UN-16APR08



ZX1041601

Setup Operating Mode

ZX1041601 -UN-16APR08



ZX1041602

Adjust Operating Mode

ZX1041602 -UN-16APR08

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OUC002.00029B1 -19-07JUL08-1/5

## Operating Lightbar Under Run Mode

The Run Mode is automatically activated under normal operation if a valid setup has been performed. To be sure that run mode is activated check that no LEDs beneath the **A**, **B** or **C** buttons are activated. If necessary, press button (D) until LEDs beneath buttons **A**, **B** or **C** are all off to access the run mode. Select this operating mode to:

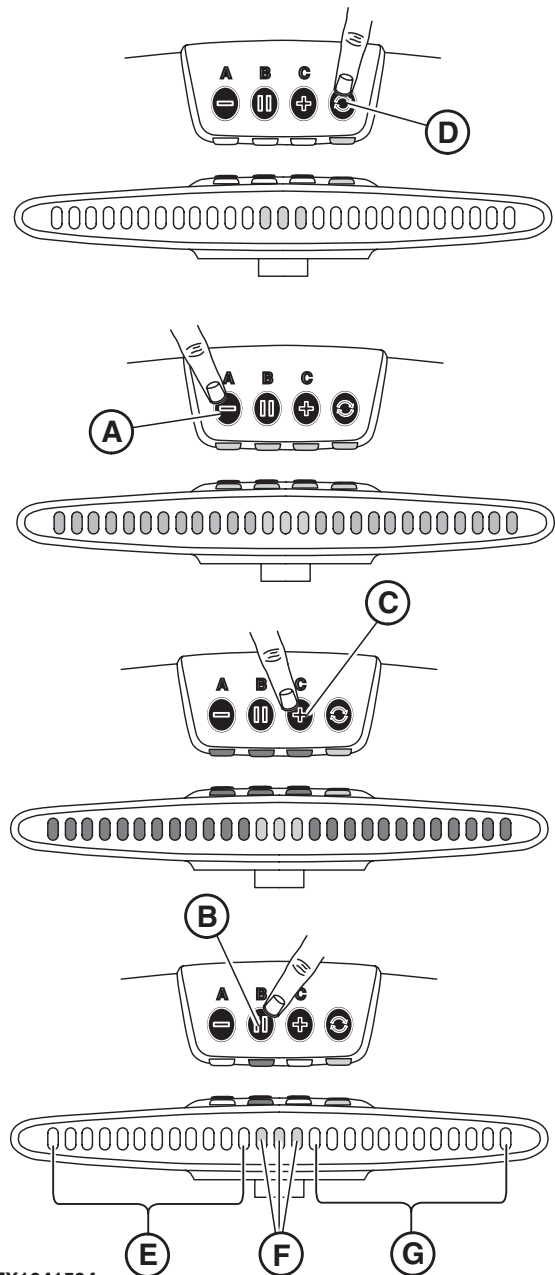
- Increase/decrease the LED brightness by pressing the button (A) or (C).
- Do a center track by pressing the button (B).
  - The system activates the center tracking indicator LEDs (F). When driving on track only these LEDs are activated.
  - If a track offset to the right-hand side is detected the system activates the L.h.offset tracking indicator LEDs (E) proportionally to the offset detected (about 10 cm (3.93 in.) per LED (E) activated). This LED activation informs the operator that he must steer to the left-hand side until all L.h.offset tracking indicator LEDs (E) are off.
  - If a track offset to the left-hand side is detected the system activates the R.h.offset tracking indicator LEDs (G) proportionally to the offset detected (about 10 cm (3.93 in.) per LED (G) activated). This LED activation informs the operator that he must steer to the right-hand side until all R.h.offset tracking indicator LEDs (G) are off.

### Track Finder Functionality:

To help the operator in finding the track spacing while turning in headland, the system changes to flashing LEDs (E) or (G) everytime the gauge limit of the lightbar is reached. The flashing frequency indicates the distance from the track:

- A higher frequency means closer to the track.
- A lower frequency means further away from track.

**NOTE:** Flashing of LEDs starts at a distance from track of 1,3 m (4 ft 3.12 in.) at 10 Hz and changes to 1 Hz at track spacing/2.

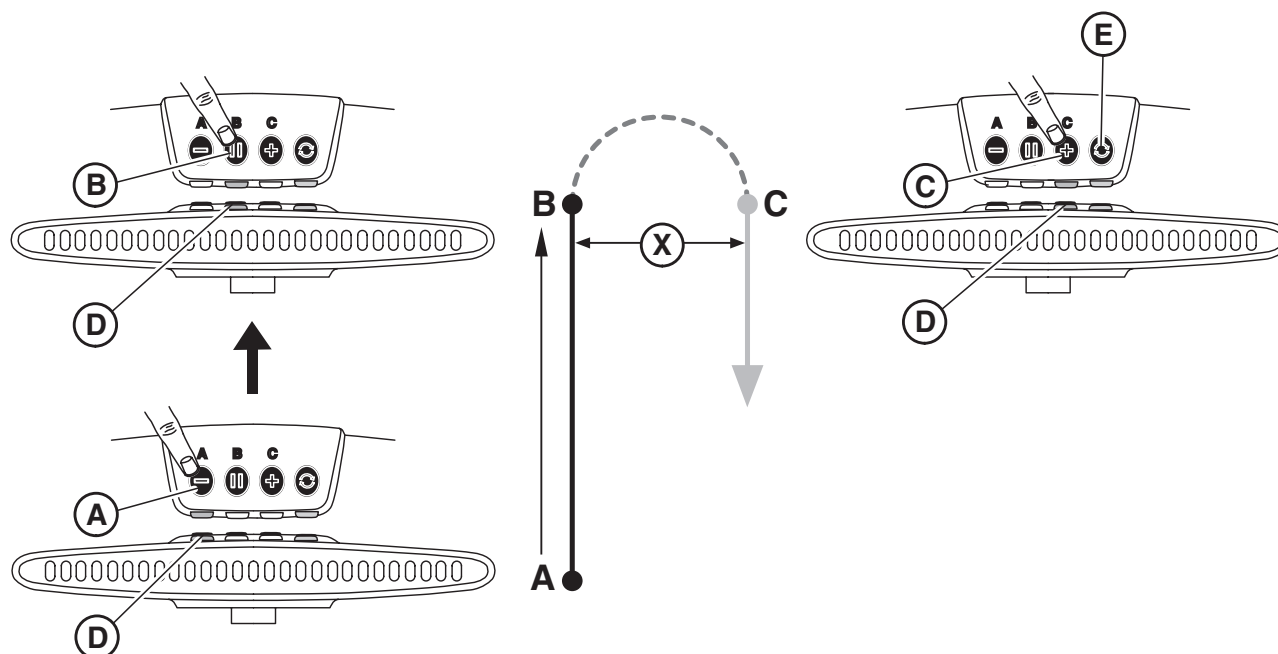


ZX1041594

Operating Lightbar—Run Mode

- A—Decrease LED Brightness Button
- B—Center Track Button
- C—Increase LED Brightness Button
- D—Operating Mode Selection Button
- E—L.h. Offset Tracking Indicator LEDs (Red)
- F—Center Tracking Indicator LEDs (Green)
- G—R.h. Offset Tracking Indicator LEDs (Red)

ZX1041594 –JUN–16APR08



ZX1041595

Operating Lightbar—Setup Mode

A—Set point A Button  
B—Set point B Button

C—Set point C Button  
D—Operator Input Indicator LED

E—Operating Mode Selection Button

X—Track Spacing

## Operating Lightbar Under Setup Mode

After power up, press button (E) to access setup mode. The LED beneath the **A** button is activated to confirm selection of the Setup Mode. Select this operating mode to:

- **Set a track as initial setup.** The operator needs to define points A, B and C (see illustration). Points A and B are used to calculate the heading and point C is used to calculate the track spacing, which is the distance (X) between the parallel tracks. Setup initial track as follows:
  - a. The system turns on the operator input indicator LED beneath the button (A) and waits for the operator input to set **A** point. Press button (A) to start heading calculation.

*NOTE: Current position of point A is stored.*

- b. The system turns on the operator input indicator LED (flashing) beneath the button (B). The system checks that the operator has driven at least 3 m (9 ft 10 in.) then operator input LED becomes solid. The system waits for the operator input to set **B** point. Press button (B) when point **B** is reached.

*NOTE: New A-B line is calculated and stored.*

- c. The system turns on the operator input indicator LED (flashing) beneath the button (C). The system checks that the vehicle heading is greater than 90 degrees from A-B line then operator input LED becomes solid. The system waits for the operator input to set **C** point. Press button (C) for less than 2 seconds when point **C** is reached.

Continued on next page

OUC002,00029B1 -19-07JUL08-3/5

**NOTE:** Vehicle position C and track spacing (X) are calculated and stored. System switches to Run Mode.

**NOTE:** Pressing button (C) longer than 2 seconds will recall the latest stored track spacing (X). System switches to Run Mode.

- **Recall a track spacing previously set.**  
Whenever the operator needs to keep his track spacing a new A-B line can be setup and current

track spacing (X) recalled by pressing button (C) longer than 2 seconds (see explanation above for initial track setup).

**NOTE:** During initial track setup procedure, all tracking indicator LEDs are off.

**Once the track spacing (X) has been setup:** Press button (E) twice to select adjust mode and fine tune track spacing (X), if necessary. See "Operating Lightbar Under Adjust Mode".

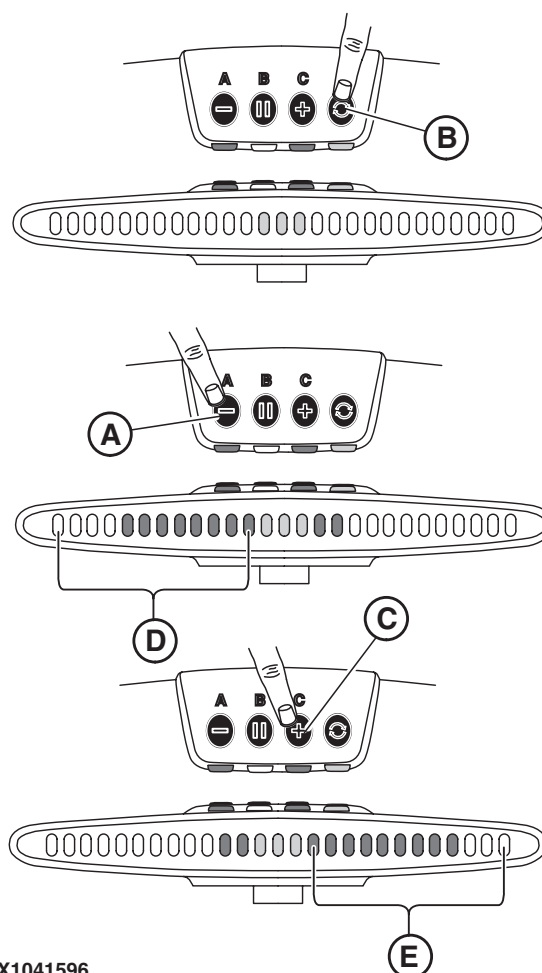
OUCC002,00029B1 -19-07JUL08-4/5

### Operating Lightbar Under Adjust Mode

After power up, press button (B) twice to access adjust mode. The LEDs beneath the A and C buttons are activated to confirm selection of adjust mode. Select this operating mode to fine tune the track spacing:

- The system turns on the operator input indicator LED beneath the buttons (A) and (C) as shown opposite.
- Press button (A) to decrease track spacing. Each tracking indicator LED (D) activation represents 10 cm (3.93 in.) of track spacing decrement.
- Press button (C) to increase track spacing. Each tracking indicator LED (E) activation represents 10 cm (3.93 in.) of track spacing increment.

A—Decrease Spacing Button  
B—Operating Mode Selection Button  
C—Increase Spacing Button  
D—Decrease Tracking Indicator LEDs (Red)  
E—Increase Tracking Indicator LEDs (Red)



ZX1041596

Operating Lightbar—Adjust Mode

OUCC002,00029B1 -19-07JUL08-5/5

ZX1041596 -UN-05MAY08

## Lightbar System Fuse Protection

- **Standalone Configuration:** A 10A fuse (A) located on power supply harness protects the Lightbar system.
- **Display Configuration:** The tractor electrical system protects the Lightbar system. To identify which fuse protects the Lightbar system, refer to the tractor Operator's Manual.

A—Fuse-10 A



OUC002,00029A8 -19-24JUN08-1/1

# Lightbar Specifications

## Safety Note Regarding the Subsequent Installation of Electrical and Electronic Appliances and/or Components

The machine is equipped with electronic components whose function may be influenced by electromagnetic radiation from other appliances. Such influences may be hazardous, so take the following safety instructions into account:

If electrical and electronic appliances are subsequently installed on the machine and connected to the onboard system, the user must verify whether the installation affects the electronics or other components. This applies particularly to:

- Personal Computer
- GPS (Global Positioning System) receiver

In particular, subsequently installed electrical/electronic components must comply with the relevant edition of EMC Directive 89/336/EEC, and be CE marked.

Wiring, installation and maximum permissible current supply must be as stated in the installation instructions of the machine manufacturer.

ZX,OMSPFH,EMV -19-02DEC96-1/1

## Declaration of Conformity

John Deere Werke Zweibrücken  
Homburger Straße 117  
D-66482 Zweibrücken



The following GREENSTAR System Component complies with the EU electromagnetic compatibility provisions in directive 2004/108/EC. This component was assessed using the acceptance criteria defined in the harmonized standard ISO 14982:1998.

- Lightbar System

Zweibrücken 01 May 2008

A handwritten signature in black ink, reading 'John H. Leinart', written over a horizontal dotted line.

**John H. Leinart**

*Engineering Manager AMS*

ZX1041618 -UN-05MAY08

OUC002,000298C -19-04JUN08-1/1

# Serial Numbers

## Identification Label

The letters and numbers on the label identify a component or assembly. All of these characters are needed when ordering parts or identifying the system or component for any John Deere product support program. Also, they are needed for law enforcement to trace your Lightbar system if it is ever stolen.

For these reasons, accurately record these characters.

OUCC002,00029A6 -19-18JUN08-1/1

## Lightbar Console

Label is located underneath console.



OUCC002,00029A7 -19-18JUN08-1/1

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# John Deere Service Keeps You On The Job

## John Deere Parts

We help minimize downtime by putting genuine John Deere parts in your hands in a hurry.

That's why we maintain a large and varied inventory—to stay a jump ahead of your needs.



TS100 -UN-23AUG88

DX,IBC,A -19-04JUN90-1/1

## The Right Tools

Precision tools and testing equipment enable our Service Department to locate and correct troubles quickly . . . to save you time and money.



TS101 -UN-23AUG88

DX,IBC,B -19-04JUN90-1/1

## Well-Trained Technicians

School is never out for John Deere service technicians.

Training schools are held regularly to be sure our personnel know your equipment and how to maintain it.

Result?

Experience you can count on!



TS102 -UN-23AUG88

DX,IBC,C -19-04JUN90-1/1

## Prompt Service

Our goal is to provide prompt, efficient care when you want it and where you want it.

We can make repairs at your place or at ours, depending on the circumstances: see us, depend on us.

JOHN DEERE SERVICE SUPERIORITY: We'll be around when you need us.



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