

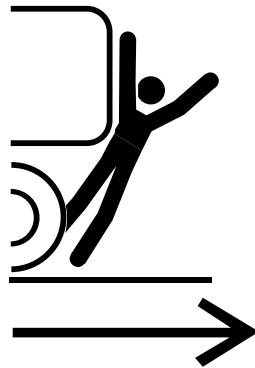
## Use Video Display Capability Properly

### Avoid Backover Accidents

**⚠ CAUTION:** Before moving machine, be sure that all persons are clear of machine path. Give audible warning by sounding horn. Turn around and look directly for best visibility. Use mirrors to assist in checking all around machine. Keep windows and mirrors clean, adjusted, and in good condition. 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 limited by many factors including maintenance practices, environmental conditions, and operating range.

**⚠ CAUTION:** Do not rely on a camera for collision avoidance or bystander detection. To avoid possible injury or death to operator or others, always remain alert and aware of surroundings when operating the machine. Read and understand AVOID BACKOVER ACCIDENTS in this section.



*Avoid Backover Accidents*

**IMPORTANT:** Avoid damage to equipment. Correctly understand whether the camera is "mirrored" and whether the video application is mirrored.

- Mount camera in a sturdy and secure location.
- Understand camera's field of view.
- Keep camera properly serviced.
- Keep camera lens clean.

TO84419,000007F -19-27NOV12-1/1

RXA0109491 -UN-05AUG10

## Installing Video Display Camera

**IMPORTANT:** Avoid damaging camera by mounting camera securely to equipment and in location where camera will not be pinched, crushed, kicked, or knocked off.

**NOTE:** Camera placement is limited to video camera cable length for camera. Consider camera field of view when selecting location.

Tractors equipped with 4100 processor will have one camera input connector and 4600 processor will have four camera input connectors.

1. Tractors are equipped with one or four, 4-pin video connector(s) to attach camera(s). Remove rear cab panel cap screws (A). Remove cab rear panel (B) to access each marked video camera connector(s) (C, D, E or F). Chart shows connector pin/function information.

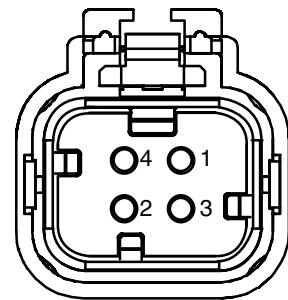
Pin Number	Function
1	Power
2	Ground
3	Signal
4	Signal—Ground

2. Connect camera cable into 4-pin connectors, route cable and mount camera at desired location.
3. Install rear panel on cab and tighten screws.

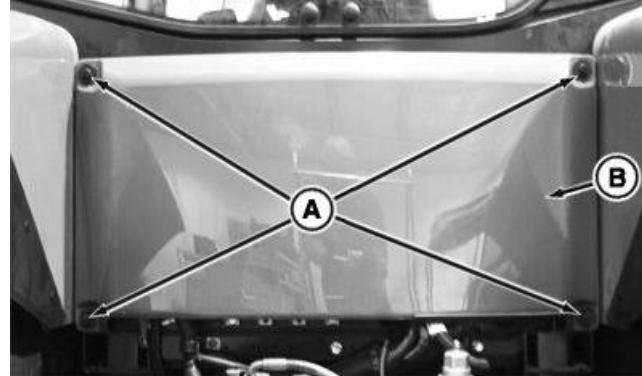
**NOTE:** Proceed to *Video Application Settings and Editing Triggers* in this Operator's Manual section to select camera settings.

A—Cap Screws  
B—Rear panel  
C—Video 1 Connector

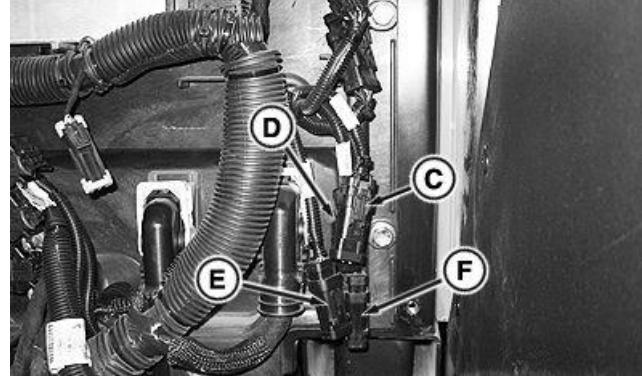
D—Video 2 Connector  
E—Video 3 Connector  
F—Video 4 Connector



Video Connector Pin Identification



Remove Rear Panel



Video Connectors Location (Equipped with 4600 Processor)

RXA0107925 –UN–28MAY10

RXA0132177 –UN–23APR13

RXA0132178 –UN–23APR13

KT81203,0000074 -19-30JUL13-1/1

## Three-Camera Video Connectors with Ethernet Cable (If Equipped)

GreenStar™ (GS3) 2630 Display can support three video inputs for additional visibility when operating tractor.

*NOTE: These video inputs are in addition to the Generation 4 CommandCenter™ Display and display harnesses are available from your John Deere™ dealer.*

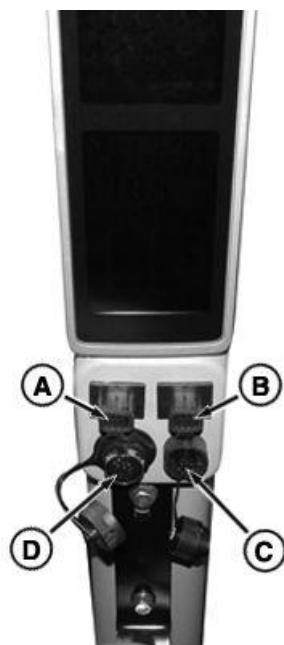
Attach a dual monitor display to connector (B). This connector is only available with the 4600 Server.

The back of 2630 Display can be also connected to GreenStar™ connector (D) or Ethernet connector (A).

The Ethernet cable (A) with GS3 2630 Display allows remote access for dealer, with customer approval, to view operator GS3 2630 Display.

The ISO 11786 connector (C) is used to connect to third-party control unit.

A—Ethernet Connector      C—ISO 11786 Standard Connector  
 B—Monitor Display Connector (Available with 4600 Server)      D—GreenStar™ Connector



Integrated Video Harness with Ethernet Cable

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RXA0134950 -UN-07AUG13

## Navigate to Video Application Settings

RXA0126840 —UN—14JUN12

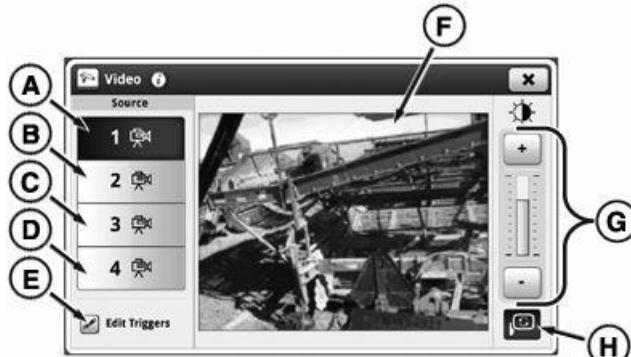
1. Select Menu.
2. Select Applications tab.
3. Select Video icon.

A—Rear Camera button  
 B—Input 2 button  
 C—Input 3 button  
 D—Input 4 button

E—Video Display Screen  
 F—Brightness Adjustment Bar  
 G—Mirror Image button  
 H—Edit Triggers button



Menu → Applications Tab → Video Icon



Example Video Display Screen

KT81203,0000076 -19-04SEP13-1/1

RXA0131114 -UN-03SEP13

## Video Application

PC15312—UN—15MAY13



The Video application is used to observe areas around the machine that are difficult to see from the operator's station. Only one video can be viewed at a time.

4600 processor can support up to four camera inputs, while 4100 processor can support only one camera input.

For more information about the different types of displays, see Display Introduction section.

### Navigate to Video

1. Select Menu.

2. Select Application tab.
3. Select Video application.

CZ76372,00000615 -19-09JUL13-1/2

## Switching Cameras

PC15313—UN—16MAY13

If more than one camera is connected, choose between video inputs by selecting different camera numbers.

### Contrast

Adjust video contrast using plus (+) and minus (-) buttons. Brighten video by selecting the plus button, and darken video by selecting minus button.

### Mirror Video

Select Mirror Video button to simulate a rear view mirror. This swaps left and right sides of video image.

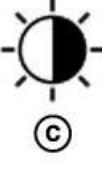
**IMPORTANT: Important: Determine if camera image is mirrored before using Video application.**



A—Camera Icon  
B—Mirror Icon



C—Contrast Icon



CZ76372,00000615 -19-09JUL13-2/2

## Video Triggers

Video can be displayed when certain machine functions are performed (For example: Reversing, PTO engage).

1. Select Edit Triggers to configure settings.
2. Select a trigger.

3. Select camera input for the current trigger. This camera is displayed when trigger is activated.

*NOTE: To prevent video from displaying for a trigger, select No Camera.*

4. Enter video Timeout length. This is the amount of time video is shown after the trigger is activated.

CZ76372,00000616 -19-09JUL13-1/1

# Operating the Radio

## Using Premium Radio

Radio faceplate is made up of different buttons, knobs, and switches that allow operator easier access to various audio functions.



Radio With CD Player

**A—ON/OFF Button:** Press and hold for 2 seconds to turn radio On or Off. Press briefly during operation to mute radio.

**B—Volume Control Knob:** Turn clockwise to increase and counterclockwise to decrease volume.

**C—BND Button:** Press briefly to select memory level or wave band.

**D—CD Eject Button:** Press to eject CD.

**E—Display:** Shows current channel or frequency selected.

**F—Menu Button:** Access menu for basic settings.

**G—Multi-function Rocker Switch:** Use to navigate within display and switch functions. Press left or right to seek up or down to next available station. Press up or down to manually tune frequency, change category when using XM, and browse folders when using MP3, CD, or USB

**H—AUD Button:** Press briefly to access audio menu to adjust bass, middle, treble, balance and fade. Press and hold to restore factory sound settings (treble and bass for currently used audio source only).

Station Buttons 1-6 can be saved as presets. Press and hold to save current station (beep will sound). Press again to bring radio back to saved station. Each station button also has specialized functions as described below.

**I—Station Button 6:** When CD, MP3, or USB is in use, press to switch between display of elapsed and remaining playing time of current track.

**J—Station Button 5/SCRL:** When CD, MP3, or USB is in use, press to turn scrolling track information on display On or Off.

**K—Station Button 4/SCAN:** When CD, MP3, or USB is in use, press to play all tracks for approximately 10 seconds each until pressed again.

**L—Station Button 3/MIX:** When CD is in use, press to play songs at random until pressed again. When MP3 or USB is in use, press to play songs in current playlist at random. Press again to play all songs at random. Press a third time to turn off.

**M—Station Button 2/RPT:** When CD is in use, press to repeat current track until pressed again. When MP3 or USB is in use, press to repeat track. Press again to repeat all tracks in current playlist. Press a third time to turn off.

**N—Station Button 1/Play or Pause Button:** When CD, MP3, or USB is in use, press to pause current track. Press again to play.

**O—TA Button:** Press to switch from user/audio menus to current source, exit radio scan functions, turn priority for traffic announcements On or Off, and cancel traffic announcement while in process (Europe only). When USB in use, press and hold to activate playlist mode.

**P—SRC Button:** Source selection between radio and AUX (also CD, USB, and XM depending on model) provided medium is inserted or device is connected and turned On.

RXA0126059 - UN-29OCT12

**NOTE:** Playlist must be created on computer and saved as \*.m3u or \*.pls.

TO84419,0000084 -19-19AUG13-2/2

## External Sources—Using Premium Radio

External audio sources can be connected using convenience port located on right-hand console/storage tray. Sources can also be connected using Bluetooth® functions. Use ports to charge certain external audio sources. Examples of external audio sources include portable CD player, MiniDisc player, or MP3 player.

**NOTE:** Some external audio sources, such as smart phones and tablets, are not supported and could shut down system

### Activate AUX Input

**NOTE:** External audio source can only be selected if audio device is connected to external AUX input.

Connect external audio source using Auxiliary Input (A) and press SRC button several times until AUX is displayed on radio.

### Adjust AUX Input Volume

Volume for connected external audio source can be adjusted using radio volume knob after input is selected as audio source using SRC button.

1. Press SRC button several times until installed audio source is displayed.
2. Press MENU button. GAIN and current setting is displayed.
3. Turn volume control knob counterclockwise or clockwise to adjust value from -9 to +9.
4. Press the MENU button several times to exit the menu.

### Set Up Bluetooth®

Following steps must be performed before Bluetooth® can be used:

**NOTE:** Bluetooth® connection only relevant to cell phones/external audio sources which are Bluetooth® enabled.

1. Enable Bluetooth® on device.
2. Press MENU button until BT MODE displays.
3. Wait 2 seconds until BT ON or BT OFF. Turn volume control knob clockwise or counterclockwise to turn

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CommandCenter is a trademark of Deere & Company



Auxiliary and USB Input

A—Auxiliary Input

B—USB Input

Bluetooth® on or off. May take up to 5 seconds to change.

4. Press MENU button until display shows CON-TYPE. Select connection type phone/audio (default).
5. To pair device, press MENU button until BT Pair displays.
6. Enter pin provided into device.

Pairing process may take up to 5 minutes to complete. Bluetooth® symbol flashes while pairing takes place. As soon as cell phone/external audio source is successfully paired, phone calls and audio streaming can be received and placed via radio system. Phone information (contact information, call history, music, etc) does not transfer to CommandCenter™.

**NOTE:** For further instructions on how to pair cell phone/audio source, select source for connection, and transfer data, see Phone Settings on the CommandCenter™ in this section of this Operator's Manual.

TO84419,0000085 -19-06SEP13-1/1

## Radio Source Select—On Generation 4 CommandCenter™

To access the audio main page, use the shortcut button or follow alternative path:

*NOTE: Selecting audio source will not turn radio ON. Turn radio ON by pressing ON/OFF button on radio faceplate.*

1. Select Menu.
2. Select Tractor Settings tab.
3. Select Audio icon.

Use source select tabs in audio page to access different audio sources. When radio is ON, audio page navigates to current source's home page. When radio is OFF, content blocker will be displayed.

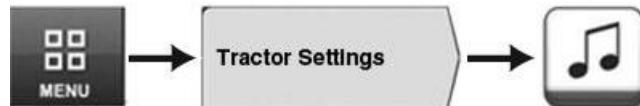
- |                                   |   |
|-----------------------------------|---|
| A—FM, AM, and Weather Tab         | D—USB Tab (Premium Radio Only)              |
| B—CD/MP3 Tab (Premium Radio Only) | E—Bluetooth® Audio Tab (Premium Radio Only) |
| C—XM Tab (Premium Radio Only)     | F—Auxiliary Tab                             |

RXA0133718—UN—16JUL13

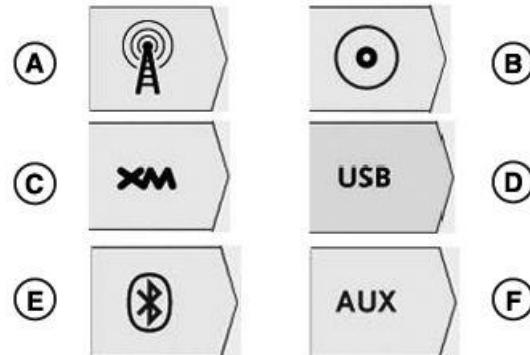


Generation 4 Audio Shortcut Button

RXA0125933—UN—13SEP12



Menu → Tractor Settings Tab → Audio Icon



Source Select Tabs

RXA0132517—UN—15MAY13

TO84419,0000086 -19-05SEP13-1/1

## AM, FM, Weather Channel Home Page

*NOTE: Refer to Radio Source Select—On Generation 4 CommandCenter™ page, in this section of this Operator's Manual, to learn how to navigate to AM, FM, Weather Channel home page.*

**A—Display Area:** Displays current radio activity/information.

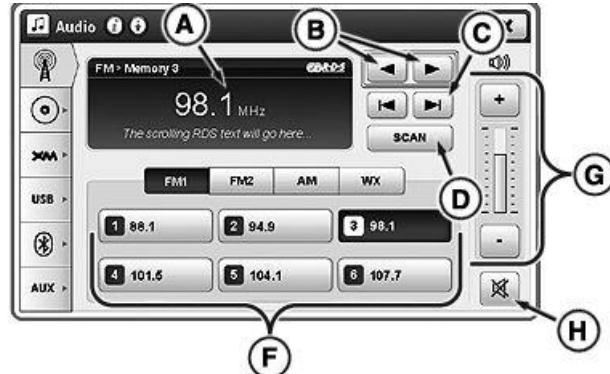
**B—Manually Tune Forward/Back:** Use left or right button to manually tune in desired station. Each time button is pressed, radio frequency increases or decreases by standard increment.

**C—Next/Previous Station:** Select to seek next available station before or after current station.

**D—Scan button:** Select to cycle through available stations. Each station broadcasts for 5 seconds before moving to next station. Cycle will end if returns to original station or by selecting button again.

**E—AM/FM/Weather Button Bar:** Cycle through channel presets using toggle bar (FM1, FM2, AM, WX).

**F—Presets:** Six presets can be programmed to FM1, FM2, and AM banks. To change FM1, FM2, and



AM, FM, Weather Channel Home Page

RXA0132503—UN—28JUN13

AM presets, press preset for 3 seconds, while on desired station, until "beep" sounds. Five presets are pre-programmed into WX bank and cannot be changed.

**G—Volume Adjustment:** Adjust volume.

**H—Mute:** Silence sound.

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## Premium Radio CD Home Page (If Equipped)

**NOTE:** Refer to Radio Source Select—On Generation 4 CommandCenter™ page, in this section of this Operator's Manual, to learn how to navigate to CD home page.

**A—Display Area:** Displays current CD activity/information.

**B—Next/Previous Track:** Select to skip back to beginning of current track or ahead to beginning of next track.

**C—Play/Pause:** Play or pause track.

**D—Volume Control:** Adjust volume.

**E—Mute:** Silence sound.

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CD Home Page

RXA0132505 -UN-28JUN13

TO84419,0000088 -19-05SEP13-1/1

## Premium Radio XM Home Page (If Equipped)

**NOTE:** Refer to Radio Source Select—On Generation 4 CommandCenter™ page, in this section of this Operator's Manual, to learn how to navigate to XM home page.

**A—Display Area:** Displays XM radio activity/information.

**B—Next/Previous Station:** Select to seek next available station before or after current station.

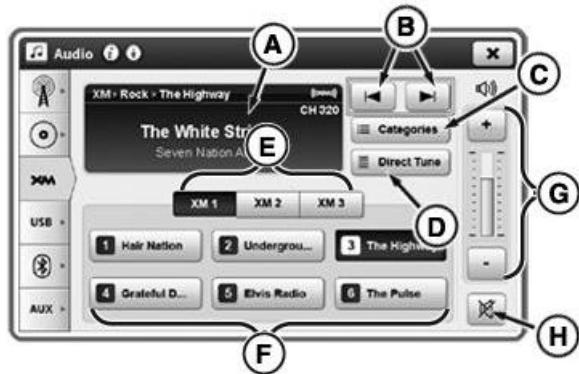
**C—(CAT) Category Mode:** Select to launch category search mode. Scroll up or down through categories and select station within category.

**D—Direct Tune:** Select to type desired channel with keypad.

**E—XM Channel Bank:** Toggle through banks using buttons (XM1, XM2, XM3).

**F—Presets:** Six presets can be programmed per bank. To set, press and hold desired preset for at least three seconds.

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XM Home Page

RXA0132502 -UN-28JUN13

TO84419,0000089 -19-05SEP13-1/1

## Premium Radio USB Home Page (If Equipped)

**NOTE:** Refer to Radio Source Select—On Generation 4 CommandCenter™ page, in this section of this Operator's Manual, to learn how to navigate to USB home page.

**A—Display Area:** Displays current USB activity/information.

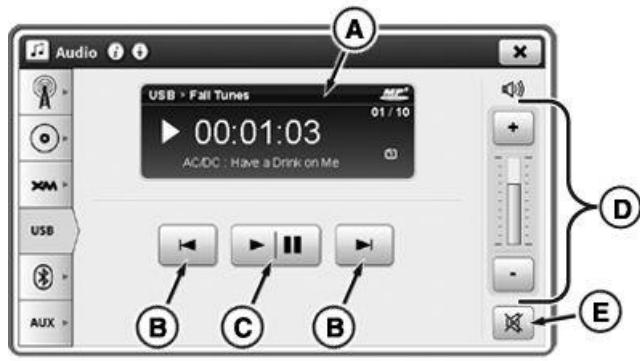
**B—Next/Previous Track:** Select to skip back to beginning of current track or ahead to beginning of next track.

**C—Play/Pause:** Play or pause track.

**D—Volume Controls:** Adjust volume.

**E—Mute:** Silence sound.

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USB Home Page

RXA0132516-UN-28JUN13

TO84419,000008A -19-05SEP13-1/1

## Premium Radio Bluetooth® Home Page (If Equipped)

**NOTE:** Refer to Radio Source Select—On Generation 4 CommandCenter™ page, in this section of this Operator's Manual, to learn how to navigate to Bluetooth® home page.

Connect Bluetooth® enabled device to play stored music.

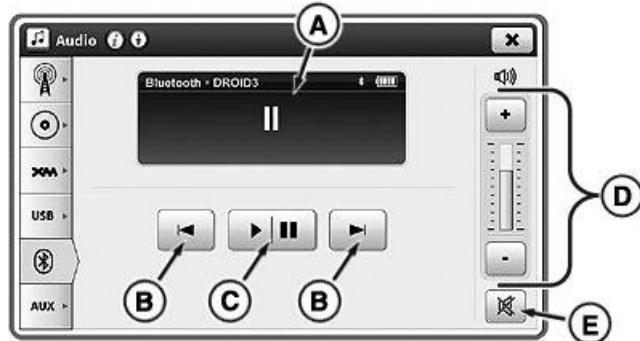
Radio system is equipped with Bluetooth®, which allows data transfer between radio system and paired close-range Bluetooth® device such as cell phone. Music stored on device does not transfer to CommandCenter™

**A—Display Area:** Displays current Bluetooth® activity/information.

**B—Next/Previous Track:** Select to skip back to beginning or ahead to beginning of next track.

**C—Play/Pause:** Play or pause track.

CommandCenter is a trademark of Deere & Company  
Bluetooth is a trademark of Bluetooth SIG



Bluetooth® Home Page

RXA0132504-UN-28JUN13

TO84419,000008B -19-05SEP13-1/1

## Auxiliary Home Page

**NOTE:** Refer to Radio Source Select—On Generation 4 CommandCenter™ page, in this section of this Operator's Manual, to learn how to navigate to Auxiliary home page.

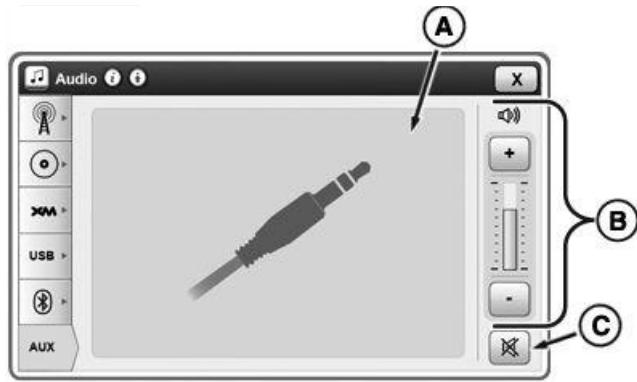
Connect external audio source to listen to stored music (see External Sources—Using Premium Radio page of this section of this Operator's Manual).

**A—Display Area:** Displays current auxiliary activity/information.

**B—Volume Adjustment:** Adjust volume.

**C—Mute:** Silence sound.

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Auxiliary Home Page

RXA0128971 -UN-07DEC12

TO84419,000008C -19-05SEP13-1/1

## Operating Phone

RXA0133719 —UN—16JUL13



Generation 4 Phone Shortcut Button

RXA0125984 —UN—13SEP12



Menu → Tractor Settings Tab → Phone Icon



Phone Home Page

RXA0132497 —UN—28JUN13

1. Select Menu.
2. Select Tractor Settings tab.
3. Select Phone icon.

**NOTE:** Phone options A-E are not available during call, so use cell phone if another number is needed.

Phone controls on this page are disabled while phone is syncing phone book with radio.

**A—Input Box:** Area to input phone number.

**B—Backspace button:** Cancel typed digit. Press and hold to cancel multiple digits.

**C—Dial pad:** Enter phone number using number buttons.

**D—Favorites button:** View/edit favorites contacts.

**E—Recent button:** Review previous missed calls, incoming calls, or outgoing calls.

**F—Volume Control:** Adjust volume.

**G—Mute button:** Mutes microphone.

**H—Battery Icon:** Displays battery life.

**I—Signal Icon:** Displays current phone signal strength.

**J—Bluetooth® Icon:** If blue, Bluetooth® device is connected. If grayed out, Bluetooth® device is not connected.

*Bluetooth is a trademark of Bluetooth SIG  
CommandCenter is a trademark of Deere & Company*

**K—Call button:** After dialing or selecting number, press to begin call.

TO84419,000008D -19-05SEP13-1/1

## Phone Book

1. Select Menu.
2. Select Tractor Settings tab.
3. Select Phone Icon.
4. Select Favorites button.

RXA0127909—UN—11SEP12



Menu → Tractor Settings Tab → Phone Icon → Favorites button

**NOTE:** New contacts from phone must be added and edited manually on display. Phone book from phone does not transfer to display.

Maximum number of phone numbers that can be stored in CommandCenter™ is 30. Maximum number of characters in phone number is 20.

**A—Favorite List:** List of available contacts.

**B—Add Favorite button:** Select to add contact manually

**C—Edit Favorite button:** Select to edit current contact.

**D—Delete button:** Select to delete contact from favorites.

**E—Call button:** Select to call selected contact.

**F—Scroll Bar:** Select to scroll up or down.

**G—Edit Favorite First Name:** Select to edit first name.

**H—Edit Favorite Last Name:** Select to edit last name.

**I—Edit Favorite Phone Number:** Select to edit phone number.

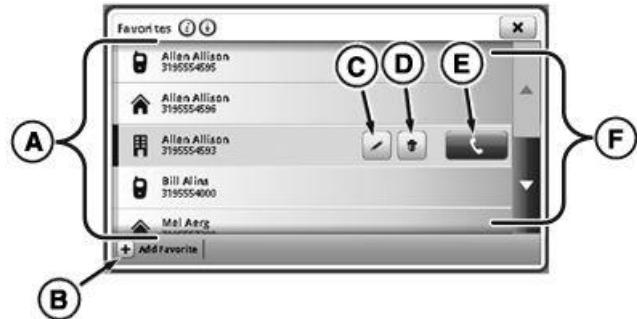
**J—Mobile Phone Button:** Select to list contact information under mobile phone.

**K—Home Phone Button:** Select to list contact information under home phone.

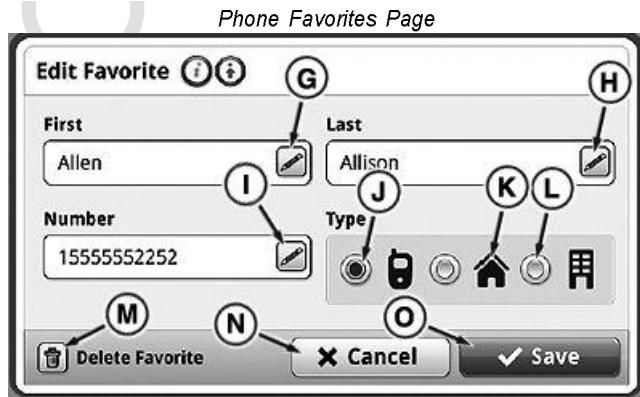
**L—Work Phone Button:** Select to list contact information under work phone.

**M—Delete Favorite button:** Select to delete contact.

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RXA0132498—UN—28JUN13



RXA0132499—UN—28JUN13

Edit Favorite Page

**N—Cancel button:** Select to cancel edits.

**O—Save button:** Select to save edits.

TO84419,000008E -19-05SEP13-1/1

## Recent Calls

At Recent page, operator can review previous missed calls, incoming calls, or outgoing calls.

1. Select Menu.
2. Select Tractor Settings tab.
3. Select Phone icon.
4. Select Recent button.

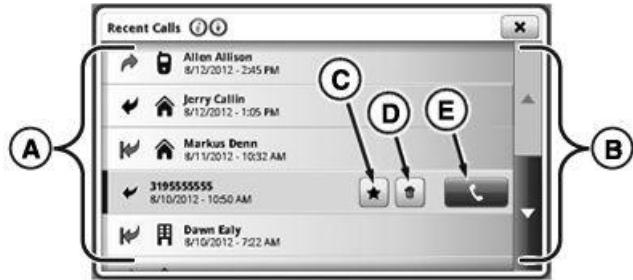
A—Recent Calls Contact List  
 B—Scroll Bars  
 C—Add to Favorites Button

D—Delete Button  
 E—Call Button

RXA0130118—UN—21DEC12



Menu → Tractor Settings Tab → Phone Icon → Recent button



Recent Calls Page

TO84419,000008F -19-05SEP13-1/

RXA0132556—UN—28JUN13

## Pairing Bluetooth® Device—On Generation 4 CommandCenter™

Radio system is equipped with integrated Bluetooth®, which allows data transfer between radio system and paired close-range Bluetooth® device such as cell phone.

**NOTE:** Make sure device's Bluetooth® ability is enabled when trying to pair device to radio Bluetooth® feature. Not ALL devices are able to use radio's Bluetooth® feature.

1. Select Menu .
2. Select Tractor Settings tab.
3. Select Phone Icon.
4. Select Pair Device button (A).
5. Use Bluetooth® menu on device to locate and start pairing process. Wait until connection is established with device.
6. When provided, enter pairing code displayed in Pairing Code box (B) into device. Pairing process will begin immediately.

Once cell phone is connected successfully, **Paired with [Device Name]** is displayed. Up to 5 device pairings can be stored in radio's Bluetooth® feature. When phone is first paired with radio's Bluetooth® feature, radio sends device synchronization request. If request is accepted, phone book is synchronized. If not accepted, phone book feature is disabled. To later re-synchronize radio and device's phone book, turn cell phone Off and back On.

A—Pair Device button

B—Pairing Code Box

RXA0126314—UN—29APR13



Menu → Tractor Settings Tab → Phone Icon



Pair Device Page



Device Pairing Page



Pairing Code Page

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Continued on next page

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RXA0132518—UN—28JUN13

RXA0132525—UN—28JUN13

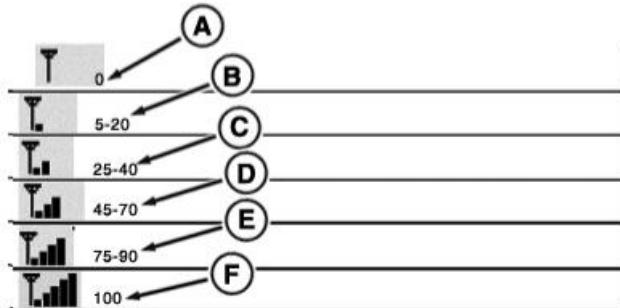
## Cell Phone Signal/Battery Strength

Five Phone Signal Strength bars (F) indicate maximum cell phone signal strength.

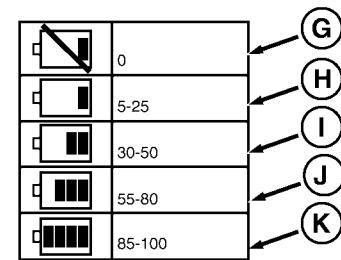
Four Phone Battery Charge bars (K) indicate maximum cell phone battery charge.

- A—No Signal
- B—5—20 Percent Signal Strength
- C—25—40 Percent Signal Strength
- D—45—70 Percent Signal Strength
- E—75—90 Percent Signal Strength
- F—100 Percent Signal Strength

- G—No Battery Charge
- H—5—25 Percent Battery Charge
- I—30—50 Percent Battery Charge
- J—55—80 Percent Battery Charge
- K—85—100 Percent Battery Charge



Signal Strength Display



Battery Power Displays

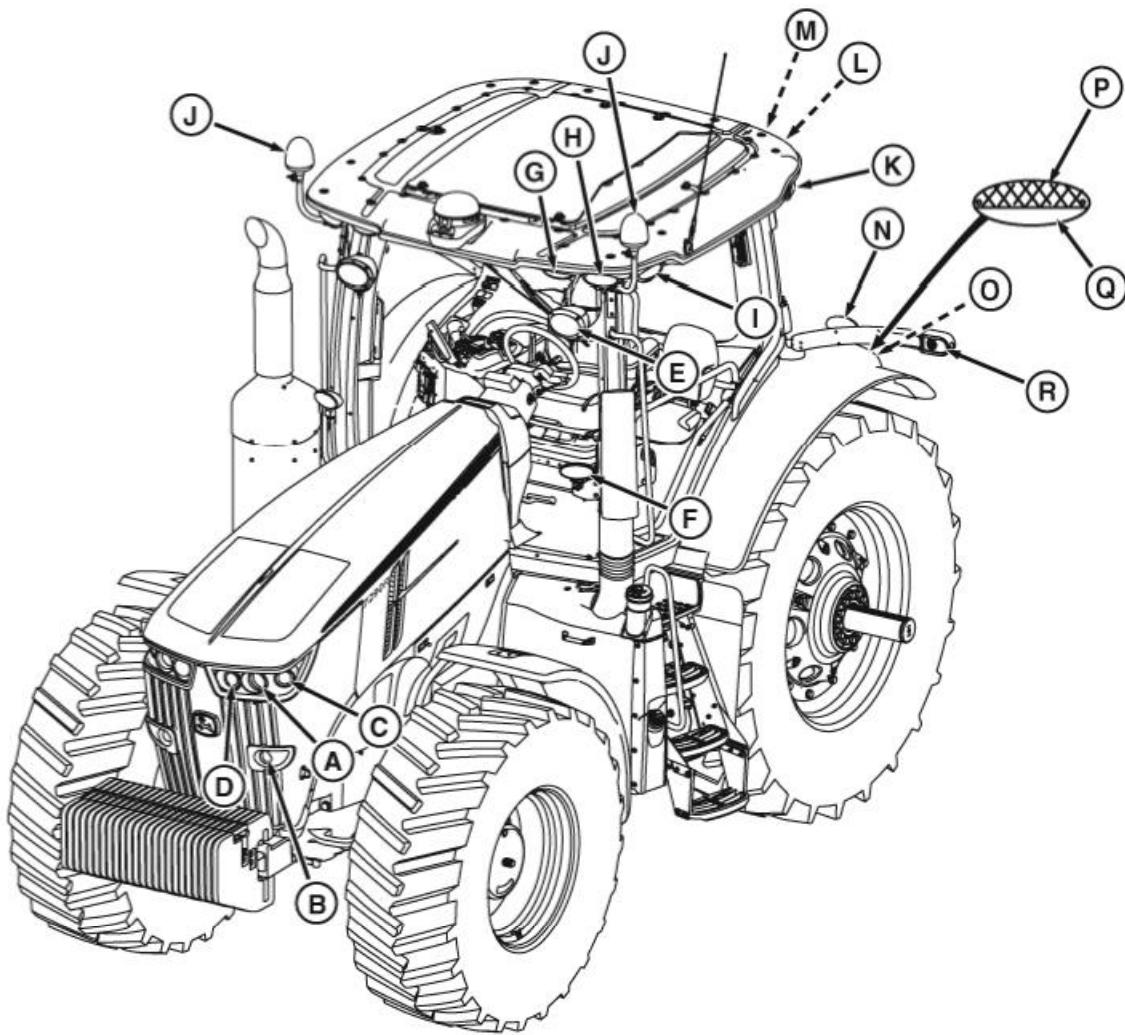
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RXA0121554 -UN-31OCT11

TO84419,0000090 -19-05SEP13-2/2

# Lights

## Light Identification



A—Road Lights (High Beam)

B—Road Lights (Low Beam)

C—Outer Hood Lights

D—Inner Hood Lights

E—Loader/Road Lights (Low and High Beam)

F—Beltline Lights

G—Front Inner Roof Lights

H—Front Outer Roof Indicator Lights (Amber)

I—Front Side Roof Lights

J—Rotary Beacon Lights (If Equipped)

K—Rear Side Roof Lights

L—Rear Outer Roof Indicator Lights (Amber)

M—Rear Inner Roof Lights

N—Rear Fender Lights

O—Rear Fender Tail/Brake/Indicator Lights

P—Amber Lens

Q—Red Lens

R—Extremity Indicator Lights

All lights are same for left and right side of tractor.

White lights are any exterior tractor lights that do not have colored lenses/bulbs.

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Lights are configured on CommandCenter™ light page.(See Configurable Lights in this section of this Operator's Manual.).

RD47322,00001AB -19-10JUL13-1/1

RXA0131224—UN—08MAR13

## Configurable Lights

RXA0133717—UN—16JUL13

**CAUTION:** Avoid injury or death caused by accidental collision with another vehicle. Always comply with traffic regulations when driving tractor on a road. Dim Road Lights to low-beam for oncoming vehicles. Avoid using Field Light position which could blind or confuse other drivers.

Promptly replace or repair damaged or lost lighting devices. See your John Deere™ dealer.

To access Lights page, use shortcut buttons or follow alternative path:

1. Select Menu
2. Select Tractor Settings tab.
3. Select Lights Icon.

When Lights page is displayed, operator can select left side tabs (A-F).

*NOTE: Lights page will temporarily show when selector knob transitions from OFF position to the road lights or field lights position.*

- A—Field 1 Low Beam
- B—Field 2 Low Beam
- C—Field 1 High Beam
- D—Field 2 High Beam
- E—Exit Lighting
- F—Hood/Beltline Light

Following buttons can be used by operator to configure lights.

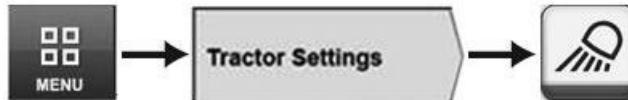
- G—Linked Lights: Lights linked or paired together that can be unlinked.
- H—Unlinked Lights: Unlinked light pair that can be linked.
- I—Paired Lights: Light pair that is always linked
- J—Exit Light Timeout: Allows operator to select how long selected lights remain ON after light selector knob is turned to OFF position.
- K—Link/Unlink: Press toggle to link and unlink lights on all pages.
- L—Hood/Loader Road Light Toggle: Press to toggle road lights between hood and loader lights position.
- M—Implement Lights: Press to activate implement lights. Implement light button only available if there are

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CommandCenter is a trademark of Deere & Company

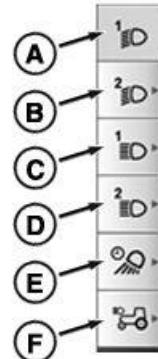


Generation 4 Configurable Lights Shortcut Button

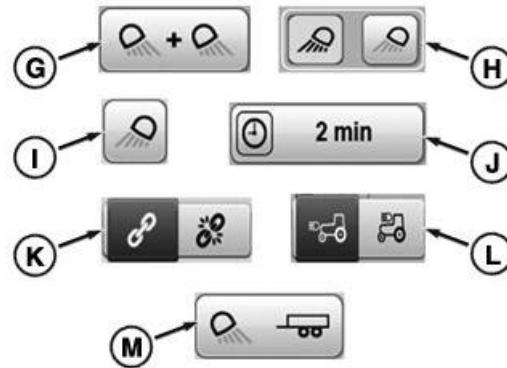
RXA0130624—UN—05FEB13



Menu → Tractor Settings Tab → Lights Icon



Lights Page Selection Tabs



CommandCenter™ Light Controls

no fender work lights. If there are fender work lights, implement lights will be controlled by implement lights button.

RXA0133541—UN—23JUL13

RXA0133544—UN—23JUL13

TO84419,0000093 -19-06SEP13-1/1

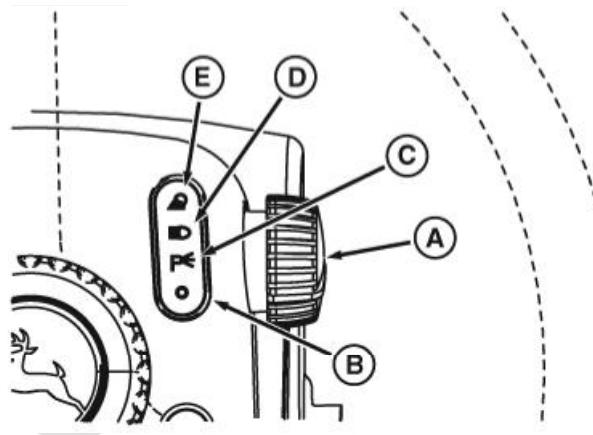
## Steering Column Light Controls

**CAUTION:** Avoid injury or death caused by accidental collision with another vehicle. Always comply with traffic regulations when driving tractor on a road. Dim Road Lights to low-beam for oncoming vehicles. Avoid using Field Light position which could blind or confuse other drivers.

Promptly replace or repair damaged or lost lighting devices. See your John Deere™ dealer.

Control lights by using Selector Knob (A) on the steering column. Display indicates lighting mode selected (B-E).

- **A—Selector Knob:** Turn knob to OFF, parking lights, road lights, or field lights position.
- **B—OFF Position:** Use selector knob to turn lights OFF.
- **C—Parking Lights Position:** Use selector knob to turn ON parking lights.



RXA0107022-UN-14JUN13

- **D—Road Lights Position:** Use selector knob to turn road lights ON.
- **E—Field Lights Position:** Use selector knob to turn field lights ON.

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SV81855,00000EA -19-06SEP13-1/1

## Exit Lights

Programming exit lighting allows operator to select which lights will remain on and for how long they will remain on after light selector knob is turned to OFF position.

Field exit lighting is all lights chosen on exit lighting page and will be activated for time selected for the Exit Timeout. Field exit lighting will be enabled when light switch has been in "Field" position for at least 10 seconds during the current key switch cycle. Field exit lighting will then be activated when light switch and key switch are turned off. The order which light switch and key switch are turned off do not matter.

Road exit lighting is all lights chosen on exit lighting page and will be activated for time selected for Exit Timeout. Road exit lighting will be enabled when light switch has been in "Road" position for at least 10 seconds during current key switch cycle. Roadexit lighting will then be activated when light switch and key switch are turned off. The order which the light switch and key switch are turned off do not matter.

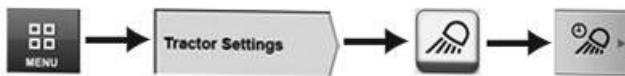
1. Select Menu .
2. Select Tractor Settings tab.
3. Select Lighting Icon
4. Select Exit Lighting tab
5. Select desired lights and deselect unwanted lights. Use Link/Unlink Toggle (C) if operator wishes to select a set (linked) or only select the right or left light in a set (unlinked) where applicable. Lights E-L are always grouped without option to select only right or left light.
6. Select Exit Light Timeout button (H).
7. When options appear, select desired time intervals (N) before lights automatically turn OFF and select OK button (Q).

*NOTE: Not all possible lights for programmable exit lighting are shown. Lights available are dependent on tractor configuration.*

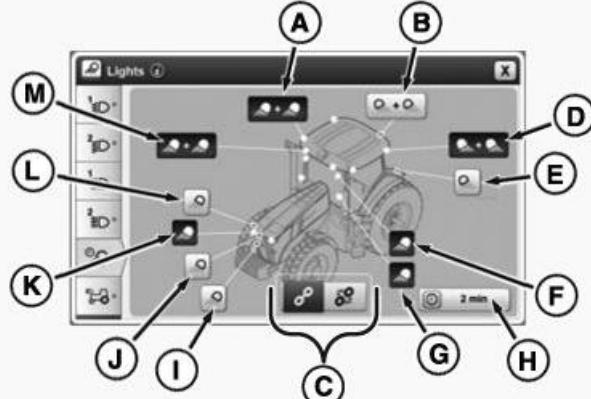
A—Front Side Roof button  
 B—Rear Inner Roof button  
 C—Link/Unlink Toggle  
 D—Rear Side Roof button  
 E—Rear Fender button  
 F—Loader/Road Lights (Low and High Beams)  
 G—Belt Line button  
 H—Exit Light Timeout button  
 I—Road Light Low Beam button

J—Inner Hood button  
 K—Road Light High Beam button  
 L—Outer Hood button  
 M—Front Inner Roof button  
 N—Time Selection Interval List  
 O—Scroll Bar  
 P—Cancel button  
 Q—OK button

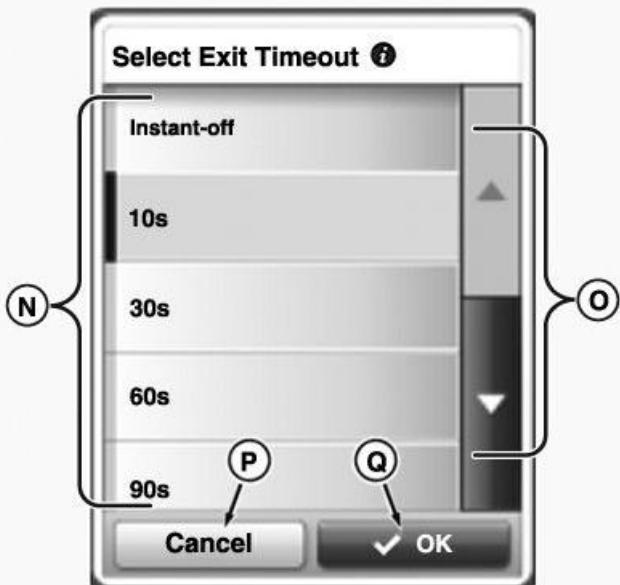
RXA0130625—UN—20FEB13



Menu → Tractor Settings Tab → Lights Icon → Exit Lighting Tab



Lights Page (Exit Lights)



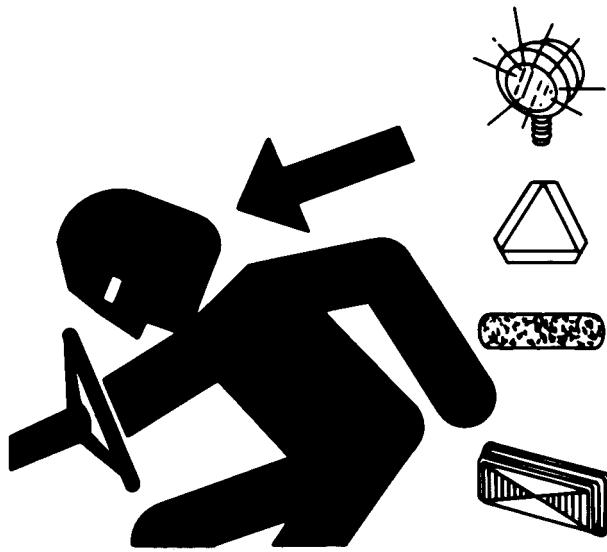
Exit Time Selection

RXA0131999—UN—24APR13

RXA0132000—UN—24APR13

TO84419,0000094 -19-10JUL13-1/1

## Operating Turn Signals and High/Low Beam



TS951-JUN-12APR90



RXA0126178-JUN-29OCT12

**A—Turn Signal Lever**

**CAUTION:** Prevent collisions between other road users, slow moving tractors with attachments or towed equipment, and self-propelled machines on public roads. Frequently check for traffic from rear, especially in turns, and use turn signal lights.

Use headlights and turn signals day and night. Follow local regulations for equipment lighting and marking. Keep lighting and marking visible, clean, and in good working order. Replace or repair lighting and marking that has been damaged or lost. See your John Deere™ dealer.

*NOTE: When turn signal is activated, a short audible chirping sound will be heard.*

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### Turn Signals:

Push turn signal lever (A) up for right turn, or pull down for left turn. Audible chirping sound will start. Return lever to center position after completing turn, chirping sound will stop when lever is returned to position.

### High/Low Beam:

Push lever (A) forward to activate high beam headlights; high beam indicator comes on. Pull lever into center position to operate low beam. Pull lever rearward and release to momentarily activate high beams.

Dim road lights to low beam for oncoming vehicles.

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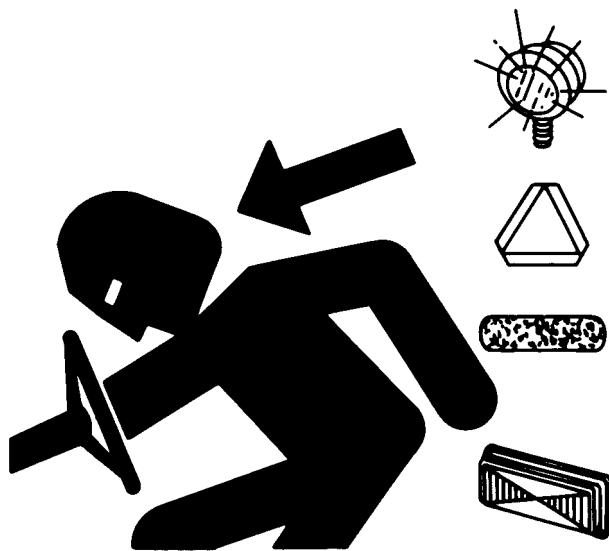
## Safety Lights and Devices

**CAUTION:** Avoid injury or death caused by collision with another vehicle.

While operating tractor on public roadways or highways, day or night:

- Turn on flashing warning lights, except where prohibited by law.
- Turn on headlights by selecting the Road Lights Position of the Light Selector Knob..
- Dim headlights for oncoming vehicles.
- Frequently check for traffic approaching from rear.
- Always use turn signals when turning.
- DO NOT use the Field Light Position of the Light Selector Knob. Extremely bright lights may blind or confuse other drivers.
- Make sure Slow Moving Vehicle (SMV) emblem is installed and visible.
- Make sure all lighting and marking devices are functional and clean.
- Comply with all traffic regulations.
- Promptly replace or repair damaged or lost lighting devices. Implement lighting kit is available from your John Deere™ dealer.

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TS951 -UN-12APR90

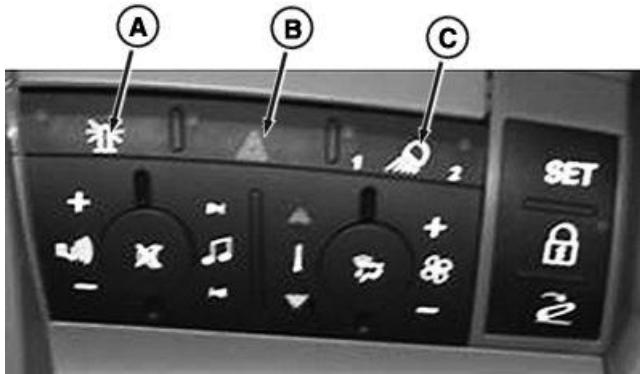
TO84419,0000096 -19-10JUL13-1/1

## CommandARM™ Light Buttons

Operator can control beacon, hazard, and field lights from the CommandARM™ rather than from display screens. When lights are on, an LED light will be lit up. When off, the LED light will be dark. Field Lights button has two LED lights, one for Field Lights 1 and another for Field Lights 2. Appropriate LED light will be lit up when selected.

A—Beacon Lights  
B—Hazard Lights

C—Field Lights 1 and Field Lights 2 Toggle Button

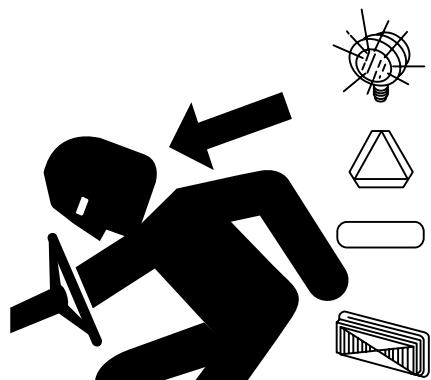


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*CommandARM is a trademark of Deere & Company*

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## Hazard Lights and Extremity Warning Lights



*Use Safety Lights and Devices*

**CAUTION:** To prevent possible personal injury, always operate flashing lights when traveling on highway or public roads, except where prohibited by law.

Extremity Warning Lights (D) are needed when tractor width exceeds 3.7 m (12 ft). Always use road lights and transport warning lights when operating tractor on road or highway day or night. Extremity Transport Lights alert other vehicles of your extended width. Use flashing warning lights and turn signals day and night. Follow local laws and regulations for equipment lighting and marking.

Push Hazard Button(A) to activate flashing amber hazard lights (B,C,D,E, and F).

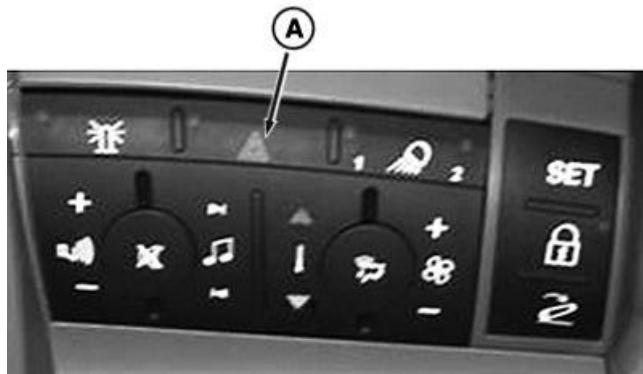
*NOTE: Depending on region and installed equipment not all lights (B,C,D,E and F) will be available as indicator lights when Hazard Switch is activated.*

**IMPORTANT:** To avoid damage, extremity lights may be retracted when parking tractor in storage building.

Extremity Warning Lights operate with Hazard Light Button "ON".

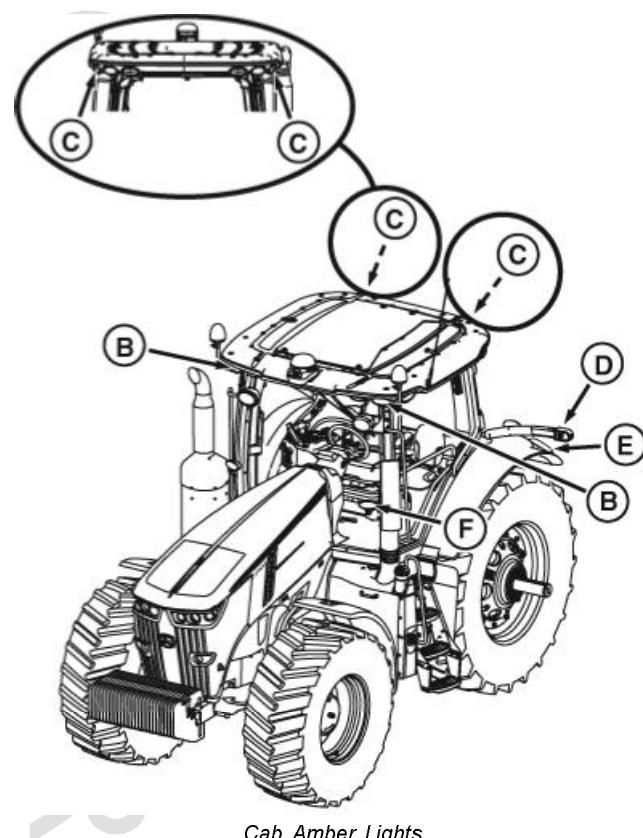
Adjust Extremity Warning Lights no more than 400 mm (16 in.) from widest point of tractor.

RXA0086584—UN—09FEB06



*Hazard Light Button*

RXA0132436—UN—13MAY13



RXA0131296—UN—10APR13

- |                                     |   |
|-------------------------------------|---|
| A—Hazard Light Button               | D—Extremity Warning Lights                              |
| B—Front Outer Roof Indicator Lights | E—Rear Fender Indicator Lights Equipped With Amber Lens |
| C—Rear Outer Roof Indicator Lights  | F—Beltline Indicator Lights                             |

TO84419,0000097 -19-12JUN13-1/1

## Rotary Beacon Light (If Equipped)

*NOTE: If Rotary Beacon Light is not installed and the Rotary Beacon Switch is activated, a Rotary Beacon DTC will be generated.*

Push Rotary Beacon Switch (A) to activate the Rotary Beacon Light (B).

When Rotary Beacon Light is not being used:

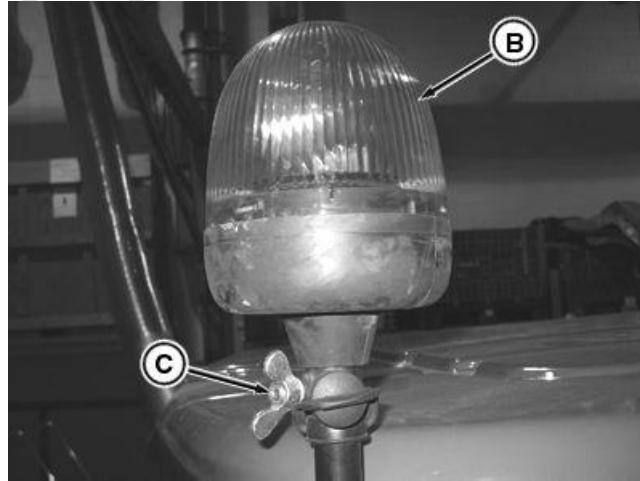
- Loosen nut (C) and remove light assembly.
- Install rubber protective cap (D) on connector.

A—Rotary Beacon Switch  
B—Rotary Beacon Light

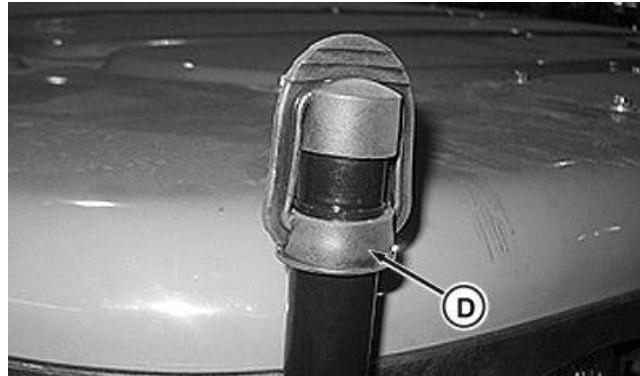
C—Nut  
D—Protective Cap



RXA0132437 -UN-13MAY13



RXA0109218 -UN-29JUL10



RXA0100494 -UN-11FEB09

TO84419,0000098 -19-10JUL13-1/1

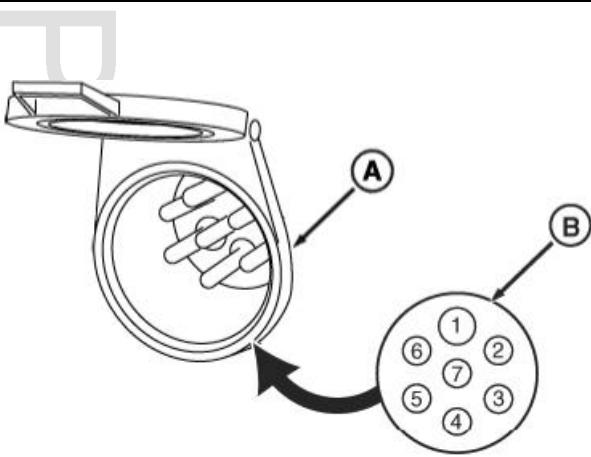
## 7-Pin Outlet

7-Pin outlet (A) is used to connect lights, turn signals, and remote electrical equipment on trailers or implements. Tractors equipped with front hitch have a 7-Pin outlet (A) located on front of tractor. Always use auxiliary light on towed implement when tractor signals and other lights are obscured.

If extra implement lights and controls, such as switches are needed, contact your John Deere™ dealer. Your dealer can provide information on methods to tie in light switches with accessory wires located in 7-Pin outlet on back of tractor.

*NOTE: Matching 7-Pin plug is available through your John Deere™ dealer.*

Outlet Numbers (B)	Function-Rear Connection	Function-Front Connection
1	Ground	Ground
2	Flood (aka Implement Lights)	Flood (aka Implement Lights)
3	Left Turn Signal	Left Turn Signal
4	Brake Lights	Not Used
5	Right Turn Signal	Right Turn Signal
6	Tail Light	Tail Light
7	Accessory	Not Used



A—7-Pin Outlet

B—Outlet Numbers

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RXA0126196-UN-05JUN12

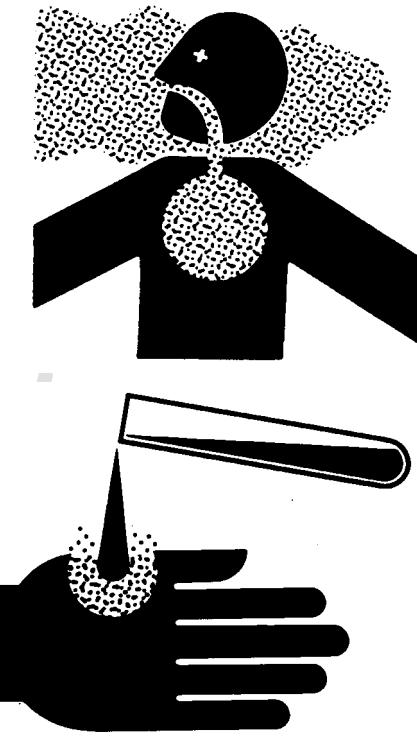
# Operator Station

## Avoid Contact with Agricultural Chemicals

This enclosed cab does not protect against inhaling vapor, aerosol or dust. If pesticide use instructions require respiratory protection, wear appropriate respirator inside cab.

Before leaving cab, wear personal protective equipment as required by pesticide use instructions. When re-entering cab, remove protective equipment and store either outside cab in closed box or some other type of sealable container or inside cab in pesticide resistant container, such as plastic bag.

Clean your shoes or boots to remove soil or other contaminated particles prior to entering cab.



TS220 -UN-15APR13

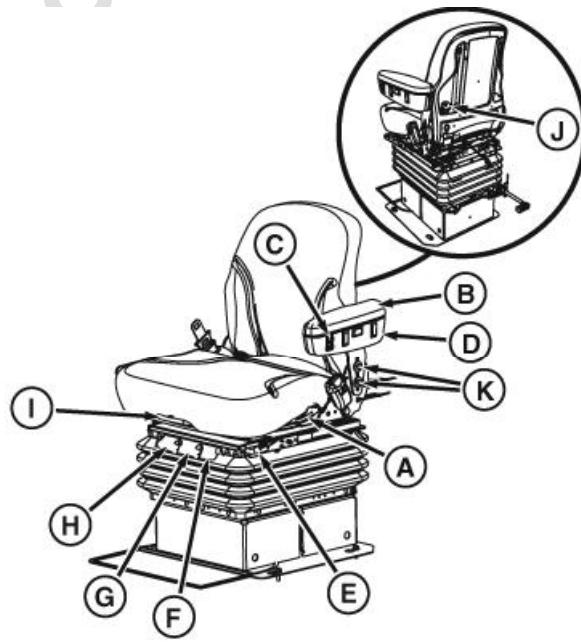
TS272 -UN-23AUG88

TO84419,000009A -19-25JUL13-1/1

P  
R  
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T

## Adjust ComfortCommand™ Seat

- A—Backrest Tilt Handle** - Allows seat back to tilt.
- B—Flip Up Armrest** - Can be flipped up out of the way.
- C—Height Adjustment Switch** - Turn key to “ON”. Press lower portion of switch to lower seat or press upper portion of switch to raise seat.
- D—Armrest Tilt Adjustment Knob** - Turn knob to adjust armrest angle.
- E—Fore/Aft Seat Adjustment Handle** - Lift up on handle, move seat forward or backward, press handle back down to lock into place.
- F—Fore/Aft Isolation Handle** - Push lever back, lock into place with locking bar. Seat will absorb shock impacts while tractor is in motion. Seat won't move farther than 25 mm in any direction.
- G—Lateral Isolation Handle** - Push down on handle to unlock lateral seat suspension. Pull up on handle to lock seat in position.
- H—Adjustment Damper Handle** - Air Suspension seat only. Controls amount of bounce operator feels while driving. Can be adjusted to reduce bounce in seat.
- I—Seat Swivel Handle** - Lift on handle to allow seat to swivel. Push down on handle to lock seat in position.
- J—Lumbar Adjustment Knob** - Turn knob clockwise to add support to lower back. Turn counterclockwise to lessen resistance to lower back.



RXA0131460 –UN–19APR13

**K—Arm Rest Adjustment Cap Screws** - Loosen cap screws to slide arm rest up or down. Retighten cap screws.

TO84419,000009B -19-18JUL13-1/1

## Adjust Heated Leather Seat (If Equipped)

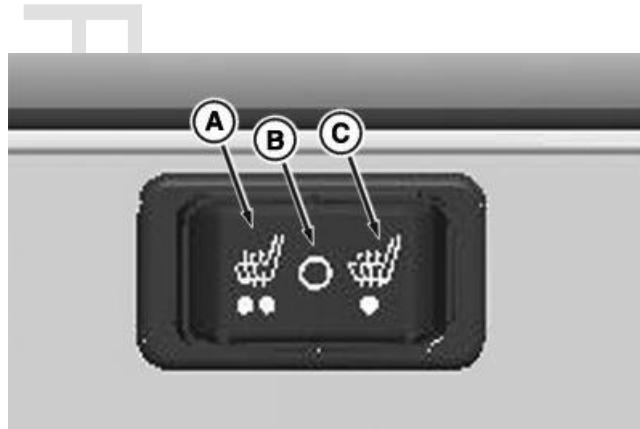
Heated seat provides two settings for increased comfort during cold days. Heat is controlled by switch located in left armrest. Three settings are : HIGH (A), LOW (C), and OFF (B). When tractor is shut off, seat also turns off or after one hour of use switch automatically turns off. To start or restart heat:

- Press switch all the way down for HIGH
- Press switch to the middle for LOW
- Press switch to top for OFF

**A—High Setting** - Press to activate high heat setting.

**B—Off** - Press to turn heat off.

**C—Low Setting** - Press to activate low heat setting.



Heated Leather Switch

RXA0135288 –UN–03SEP13

TO84419,000009C -19-03SEP13-1/1

## Adjust ActiveSeat™ (If Equipped)

ActiveSeat™ has ride zone protection (RZP), a built-in buffer at high and low end of vertical seat travel, resulting in a much smoother ride. To receive maximum benefit from ActiveSeat™ RZP system, adjust seat to operator's height and weight prior to operating tractor. After adjustment, seat automatically moves into protected zone when operator adjusts seat height position to a level at or near vertical seat travel limits.

**A—Back Tilt Handle** - Allows seat back to tilt.

**B—Flip Up Armrest** - Can be flipped up out of the way.

**C—Height Adjustment Switch** - Turn key to "ON". Press lower portion of switch to lower seat or press upper portion of switch to raise seat.

**D—Armrest Tilt Adjustment Knob** - Turn knob to adjust armrest angle.

**E—Fore/Aft Seat Adjustment Handle** - Lift up handle, move seat forward or backward, press handle back down to lock into place.

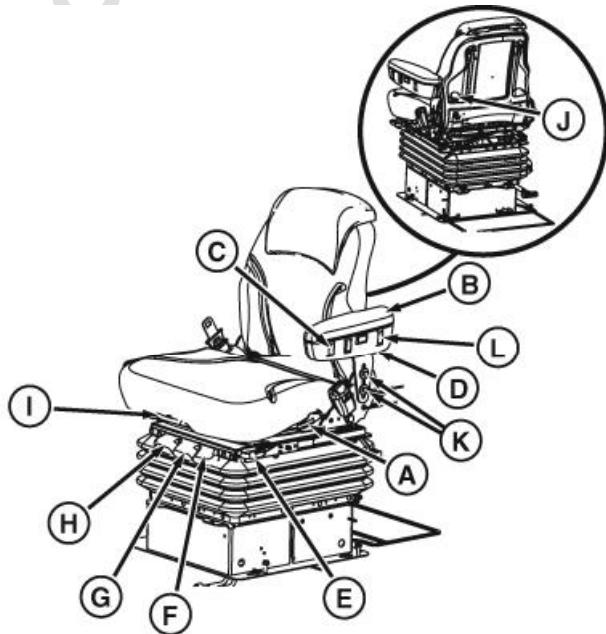
**F—Fore/Aft Isolation Handle** - Adjust lever to back setting, lock into place with locking lever. Seat will absorb shock impacts while tractor is in motion. Seat won't move farther than 25 mm in any direction.

**G—Lateral Isolation Handle** - Push down on handle to unlock lateral seat suspension. Pull up on handle to lock seat in position.

**H—Adjustment Damper Handle** - Air Suspension seat only. Control amount of bounce operator feels while driving. Adjust firmer to reduce amount of bounce.

**I—Seat Swivel Handle** - Lift on handle to allow seat to swivel. Push down on handle to lock seat in position.

ActiveSeat is a trademark of Deere & Company



RXA0131462 –UN–19APR13

**J—Lumbar Adjustment Knob** - Turn clockwise to add support to lower back. Turn counterclockwise to lessen resistance to lower back.

**K—Armrest Adjustment Cap Screws** - Loosen cap screws to slide arm rest up or down. Retighten cap screws.

**L—Firmness Adjustment** - provides three different levels of seat suspension performance. Press upper portion "+" of switch for the firmest ride or lower portion "-" for the softest ride.

TO84419,000009D -19-18JUL13-1/1

## Adjust ComfortCommand™ with HCS Plus<sup>1</sup> Cab Suspension Seat

**A—Height Adjustment Switch** - Turn key to "ON". Press lower portion of switch to lower seat or press upper portion of switch to raise seat.

**B—Heat/Vent Level Control Switch** - Press to adjust level of heat or ventilation.

**C—Heat/Vent Select Switch** - Press to activate heat or ventilation functions.

**D—LH Armrest Tilt Adjustment Knob** - Turn knob to adjust armrest angle.

**E—Seat Back Recliner Adjustment Handle** - Pull up to adjust back of seat.

**F—Lateral Attenuation Lever** - Adjust lever to move seat from side to side. Lock lever into position when at desired location.

**G—Ride Firmness Control** - Pull lever to one of four positions to adjust the damping of seat.

**H—Fore/Aft Attenuation** - Adjust seat to control amount of fore/aft movement from tractor. Seat absorbs some movement from shock impacts while driving.

**I—Seat Swivel Handle** - Lift on handle to allow seat to swivel. Push down on handle to lock seat in position.

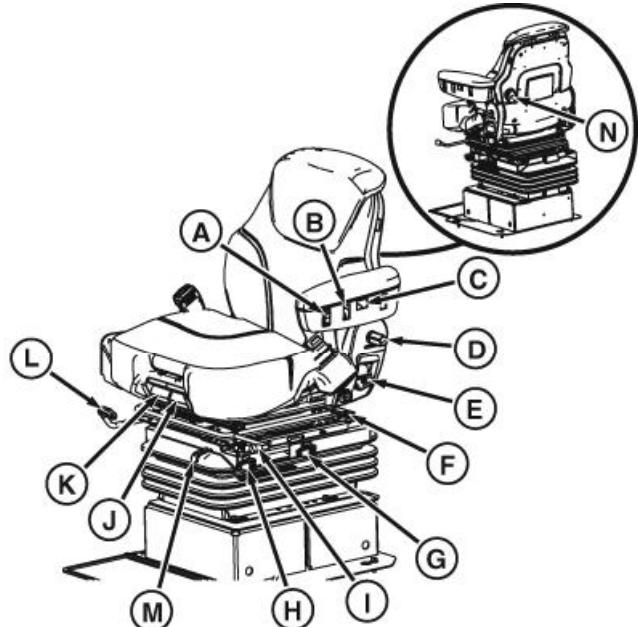
**J—Cushion Height Adjustment** - Pull to adjust height of cushion up or down.

**K—Fore/Aft Cushion Adjustment** - Pull to adjust cushion forwards or backwards.

**L—Fore/Aft Adjustment Lever** - Lift up on handle, move seat forward or backward, press handle back down to lock into place.

*ComfortCommand is a trademark of Deere & Company*

<sup>1</sup> Hydro-pneumatic cab suspension plus



ComfortCommand™ with HCS Plus Cab Suspension Seat

**A—Heated Seat Switch**

**M—Ideal Weight Indicator** - Gauge shows when seat is adjusted to operator's weight and height. Green marking will be visible when adjusted.

**N—Lumbar Adjustment Knob** - Turn knob clockwise to add support to lower back. Turn counterclockwise to lessen resistance to lower back.

TO84419,000009F -19-25JUL13-1/1

RXA0131464 -UN-19APR13

## Using Instructional Seat

**⚠ CAUTION:** Instructional seat is provided only for training operators or diagnosing machine problems. Keep all other riders off tractor and equipment. Always wear seat belt (A).

Instructional seat back tilts forward to be used as writing surface (B). Flip up seat (C) tilts up to allow easier entrance and egress.

A—Seat Belt  
B—Writing Surface

C—Flip Up Seat



RXA0107055 -JUN-01APR10



RXA0107057 -JUN-03JUN10



RXA0107061 -JUN-01APR10

Instructional Seat Folded Up For Easier Egress

TO84419,000009E -19-06SEP13-1/1

## Operator Presence Sensor

Audible warning sounds if operator leaves seat with PTO engaged, or if SCV is left in detent flow position. After 5 seconds, audible warning sound will stop.

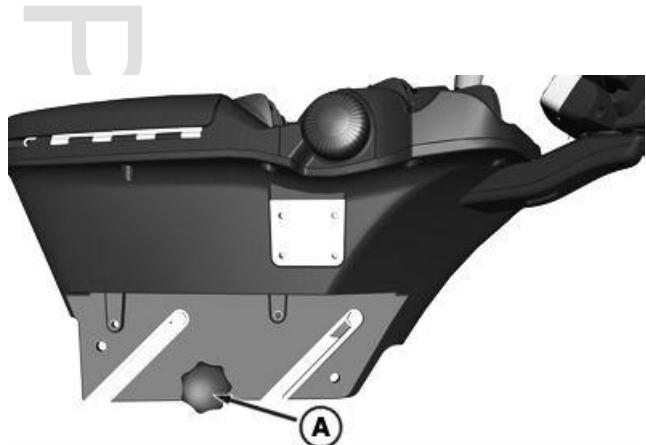
**⚠ CAUTION:** PTO and/or SCV do not automatically disengage when systems sense operator is out of seat.

TO84419,00000A0 -19-12JUL13-1/1

## Adjust CommandARM™ Position

1. Turn CommandARM™ Adjustment Knob (A).
2. By turning CommandARM™ Adjustment Knob (A), CommandARM™ automatically moves to highest possible setting. Push CommandARM™ controls down to desired position.
3. Once proper height is maintained, turn CommandARM™ Adjustment Knob (A) in opposite direction to original position to lock.

A—CommandARM™  
Adjustment Knob



CommandARM™ Adjustment Knob

*CommandARM is a trademark of Deere & Company*

RXA0130772—UN—05FEB13

TO84419,00000A1 -19-12JUL13-1/1

## Adjust Steering Wheel and Column

**Telescope:** Rotate knob (A) counterclockwise and pull or push to extend or retract steering column. Rotate knob clockwise to lock.

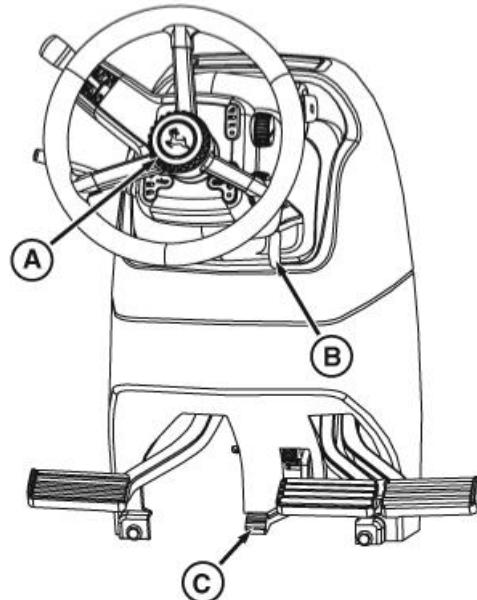
**Tilt:** Pull up on lever (B) and move steering column to desired position. Release lever to lock.

**Memory:** Push down on foot pedal (C) to allow steering column to move up and out of way for easy entry or exit.

Push down on foot pedal and pull down on steering wheel to return steering column to previous setting.

A—Knob  
B—Lever

C—Foot Pedal



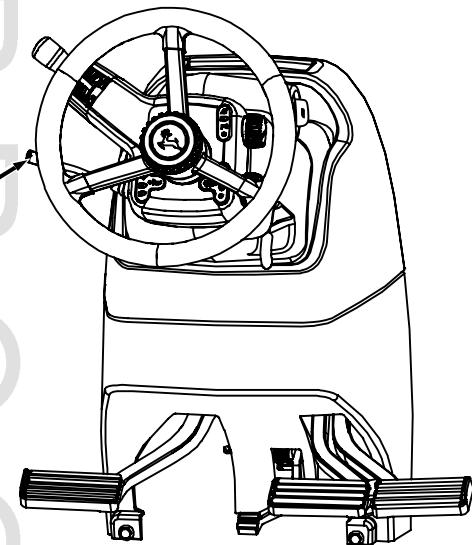
RXA0126757—UN—10OCT12

TO84419,00000A2 -19-12JUL13-1/1

## Operate Horn

Push button on end of signal lever (A) to activate horn.

A—Signal Lever/Horn



RXA0126758-UN-29OCT12

TO84419,00000A3 -19-12JUL13-1/1

## Generation 4 CommandCenter™ HVAC Settings

To access the main page, use shortcut buttons or follow alternative path:

1. Select Menu.
  2. Select Tractor Settings tab.
  3. Select HVAC (Heating, Ventilation, and Air Conditioning) icon.
- **A—Set Temperature Module:** Select to access Set Temperature page (M).
  - **B—Auto Air Flow Toggle:** Select for air flow to be auto adjusted.
  - **C—Defrost Toggle:** Select to activate defrost.
  - **D—Defrost and Floor Toggle:** Select to activate defrost and floor vents.
  - **E—Defrost, Floor, and Cab Toggle:** Select to activate defrost, floor, and cab vents.
  - **F—Cab and Floor Toggle:** Select to activate floor and cab vents.
  - **G—Fan OFF:** Move slide bar to OFF position to turn fan off.
  - **H—Fan AUTO:** Adjust slide bar to AUTO position to have fan be auto adjusted.
  - **I—Fan Increment Bar:** Use to adjust fan speed. As slide moves right, fan strength increases. As slide moves left, fan strength decreases.

**IMPORTANT: If system is not cooling properly, turn air conditioning switch off to avoid possible compressor damage.**

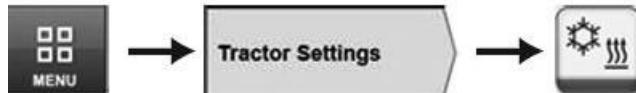
- **J—A/C Toggle:** Use to turn A/C ON or OFF.
- **K—Outside Temperature Module:** Displays the temperature outside of the cab.
- **L—Set Temperature Page:** Page used to adjust cab temperature.
- **M—Increase Button:** Select to increase temperature in cab.
- **N—Display Temperature Box:** Displays the temperature setting.
- **O—Decrease Button:** Select to decrease temperature in cab.

RXA0133716—UN—16JUL13

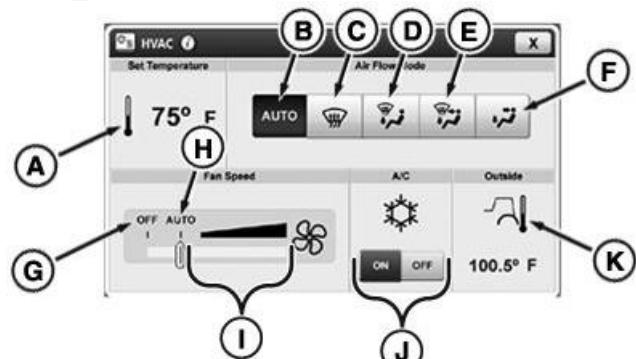


Generation 4 Shortcut Buttons

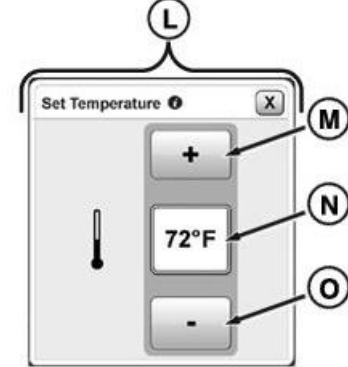
RXA0126574—UN—25OCT12



Menu → Tractor Settings Tab → HVAC Icon



HVAC Page



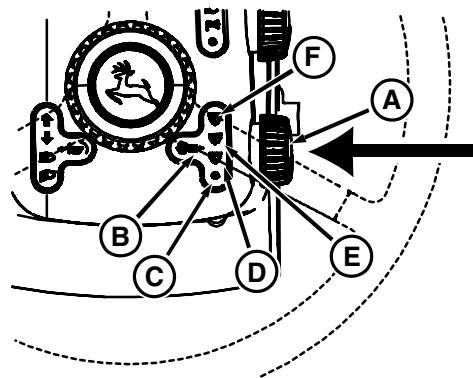
Set Temperature Page

RXA0133683—UN—19JUL13

RXA0133684—UN—19JUL13

TO84419,00000A4 -19-16JUL13-1/1

## Operate Front Wiper and Washer



A—Front Wiper/Washer Knob  
B—Washer Icon

C—Off  
D—Intermittent Speed  
E—Slow Speed

RXA0098437 -UN-22DEC08



RXA0133281 -UN-18JUN13

F—Fast Speed  
G—Front Washer Reservoir

Wiper/washer knob (A) has four positions:

- OFF
- Intermittent Operation
- Slow Speed
- Fast Speed

Push knob in to operate front washer.

Front washer reservoir (G) is behind battery compartment cover. Fill reservoir with a washer fluid. In cold climates be sure fluid contains anti-freeze.

TO84419,00000A5 -19-12JUL13-1/1

## Operate Rear Wiper and Washer (If Equipped)

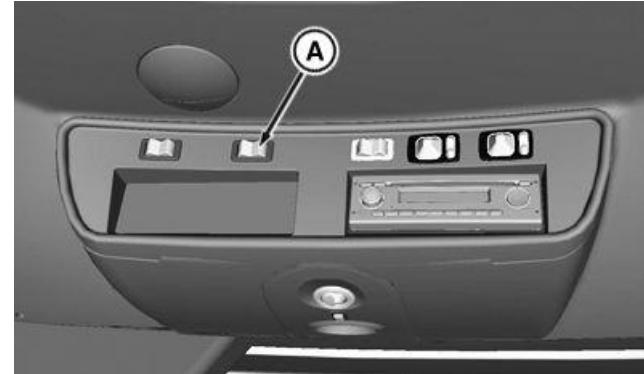
Switch (A) has three positions:

Right—OFF position.

Center—ON position. Rear wiper is activated.

Left—Rear window washer ON when switch is held.  
Release switch to turn OFF rear window washer.

A—Rear Wiper/Washer Switch



RXA0128082 -UN-12SEP12

TO84419,00000A6 -19-12JUL13-1/1

## Operate Right-Hand Wiper and Washer (If Equipped)

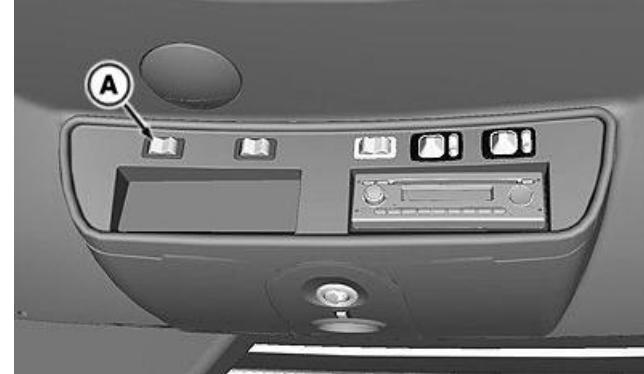
Switch (A) has three positions:

Right—OFF position.

Center—ON position. Rear wiper is activated.

Left—Rear window washer ON when switch is held.  
Release switch to turn OFF rear window washer.

A—Right-Hand Wiper/Washer Switch



RXA0126727 -UN-07JUN12

TO84419,00000A7 -19-12JUL13-1/1

## Install Business Band or Citizens Band (CB) Radio and Antenna

**CAUTION:** Under no circumstances should business band radio antenna be mounted to rear of cab or antenna cable be routed near harness for electrical system control units or operator controls. Failure to follow these precautions could expose operator to radio frequency energy levels higher than recommended by American National Standards Institute (ANSI) and/or could cause undesirable performance of electronically controlled systems.

**CAUTION:** Prevent possible personal injury. Disconnect battery ground cable before any electrical repair.

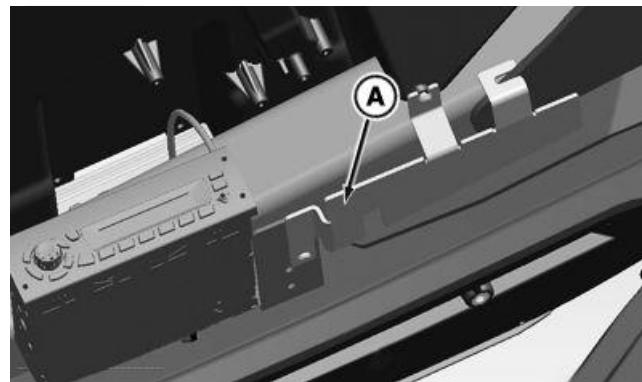
**IMPORTANT: (Final Tier 4 and Stage IV Engines only. To determine which engine your tractor is equipped with, see Record Engine Serial Number in Identification Numbers section of this Operator's Manual.)** Do not disconnect battery until Selective Catalyst Reduction (SCR) system has had enough time to automatically purge system of Diesel Exhaust Fluid (DEF). If adequate time is not allowed for system to be purged, any DEF remaining can crystallize and plug system. At temperatures below -15°C (5°F), unpurged DEF will freeze and damage system components. If equipped with a battery disconnect system, a light next to the disconnect system is illuminated while auto-purge is in progress. It shuts off when complete and safe to disconnect the battery. If tractor is not equipped with battery disconnect, wait at least 4 minutes after tractor stops before disconnecting battery. To determine which engine your tractor is equipped with, see Record Engine Serial Number in Identification Numbers section of this Operator's Manual.

**NOTE:** Only tractors equipped with Business Band Radio Mounting and Wiring Option from factory have business band bracket behind headliner and antenna cables behind right rear corner post cover. See your John Deere™ dealer for Business Band Radio and Antenna Installation Instructions.

### Custom Installation

Custom CB or Business Band radio installation requires special tools and skills to tune antenna for lowest

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Business Band Radio Bracket—Headliner Removed To Show Location



Antenna Coaxial Cable And Business Band Radio Power/Ground Plug Coiled Behind Right Rear Corner Post Cover

A—Bracket  
B—Antenna Coaxial Cable

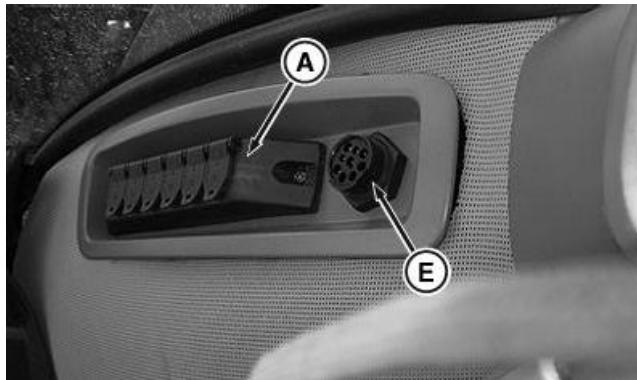
C—Business Band Radio Power/Ground Cable

possible VSWR (Voltage Standing Wave Ratio). Qualified professional should be employed or consulted before attempting installation. Contact your John Deere™ dealer for recommendations. Following specifications are useful to installer.

### Specifications for Factory Installed Radio Installation Kit

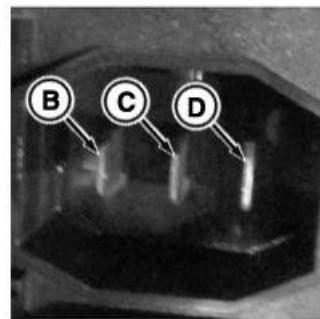
- Roof Antenna Mount: MNO type.
- Cable Specifications: Cable length is 3.6 m (11.8 ft.) from antenna mount to PL-259 radio connector. RG-58/U cable has 50 ohms intrinsic impedance.
- Roof Ground Plane: Grounded large antenna counterpoise foil under green cab roof allows installation of either  $\frac{1}{4}$  or  $\frac{1}{2}$  wave antenna.
- CB Antenna: Normal CB antenna can be attached to factory installed MNO antenna mount through use of an appropriate adapter. Special CB antenna already equipped with MNO base may alternatively be used.

## Use Auxiliary Power Strip and Electrical Outlets (If Equipped)



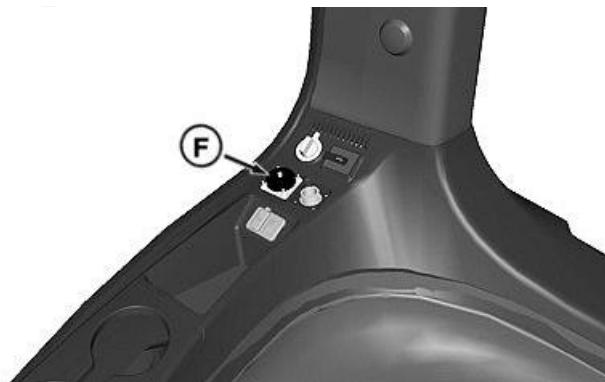
Auxiliary Power Strip

RXA0099078—UN—25FEB09



Auxiliary Power Strip Convenience Outlet

RXA0131998—UN—06MAY13



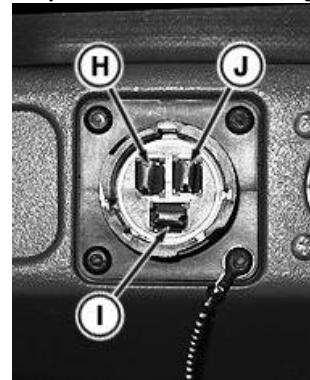
Accessory Electrical Outlet On Right-Hand Console

RXA0126728—UN—07JUN12



Accessory Electrical Outlet In Storage Box

RXA0131996—UN—06MAY13



Accessory Electrical Outlet Pins

RXA0113322—UN—27JAN11

**IMPORTANT: Power strip is not surge suppressor.**  
**Electrical equipment with program memory requires protection from damage of electrical surges and spikes.**

Power strip (A) provides six 12 volt grounded power outlets for use connecting auxiliary equipment. This power is 30 amp switched and 30 amp unswitched.

Adapters are available from your John Deere™ dealer.

Adapters plug directly into power strip. To change to switched power on adapter, remove small tab at end of slot on plug and rotate plug 180°.

**NOTE:** Outlets are protected by a 30-amp fuse.

12 volt accessory outlets (F) located on right-hand console or outlet (G) in storage box are used when connecting auxiliary equipment.

Pin (H) provides battery power, pin (I) provides ground, and pin (J) provides (key) switched power. For additional information on connections, see appropriate auxiliary equipment installation instructions or your John Deere™ dealer.

A—Auxiliary Power Strip  
 B—Battery (Unswitched)  
 C—Ground  
 D—Battery (Switched)  
 E—Diagnostic Connector  
     (DEALER USE ONLY)

F—Accessory Outlet  
     (Right-Hand Console)  
 G—Accessory Outlet (In  
     Storage Box)  
 H—Battery (Unswitched)  
 I—Ground  
 J—Battery (Switched)

## Connect Compatible Electronic Equipment

All 7R Series Tractors are ISOBUS ready and offer connections for implements conforming to both ISO 11786 and 11783 standards. ISO 11786 (A) provides radar or GPS speed signal. See Configuring Tractor for GPS/Radar in this section.

GreenStar™ corner post connector (B) allows any GreenStar™ display connection. See your John Deere™ dealer for compatible adapter harnesses.

**IMPORTANT: USE ISO 11783 (F) only with ISO 11783 compliant components. Other uses could damage tractor electronic components.**

ISOBUS ready preparation includes ISO 11783 standardized connector on right hand console and implement connector on tractor rear facilitating tractor/implement communications.

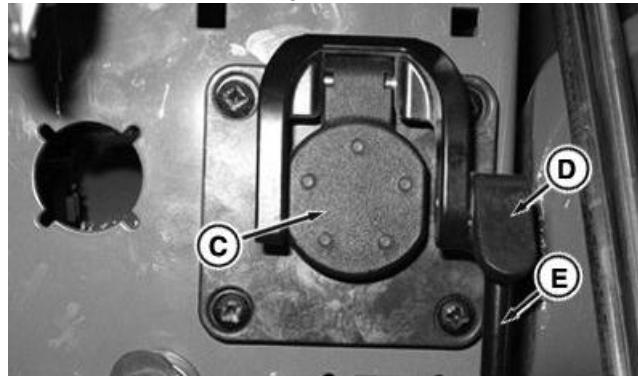
Lift the Release (D) when disconnecting the implement from the connector on back of tractor.

A—ISO 11786 Standard Connector (Corner Post Right)  
 B—GreenStar™ Connector (Corner Post Left)  
 C—Implement Connector (Tractor Rear)  
 D—Release

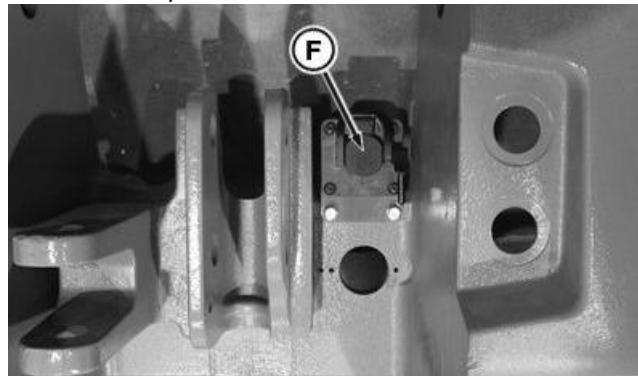
E—Handle  
 F—Implement Connector (Tractor Front) (If Equipped)  
 G—ISO 11783 Standard Connector (Right-Hand Console)



Front Right Corner Post



Implement connector on Tractor Rear



Implement connector on Tractor Front (If Equipped)



ISO 11783 Connector on Right Console

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 GreenStar is a trademark of Deere & Company

TO84419,00000AA -19-13AUG13-1/1

## Configure Tractor For GPS/Radar

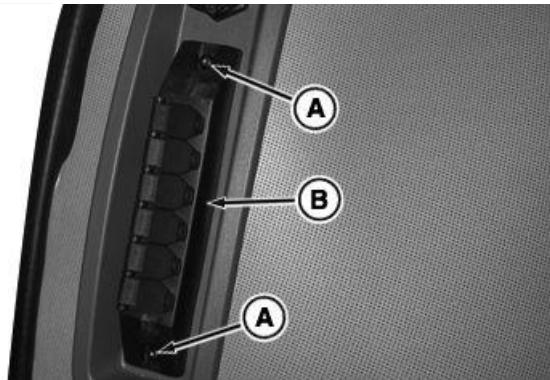
Tractors equipped with radar must be re-configured when switching to GPS radio as true ground speed input signal. To configure tractor:

1. Remove screws (A) and power strip (B) (if equipped), or cover plate.
2. Inside right-hand console locate one wire lead marked "GPS" and one marked "Radar".
3. Remove radar connector (C) from tractor harness connector (E).
4. Remove dust cap (F) from GPS connector (D).
5. Install GPS connector into tractor harness connector.
6. Install dust cap onto radar connector.
7. Reinstall power strip (if equipped).

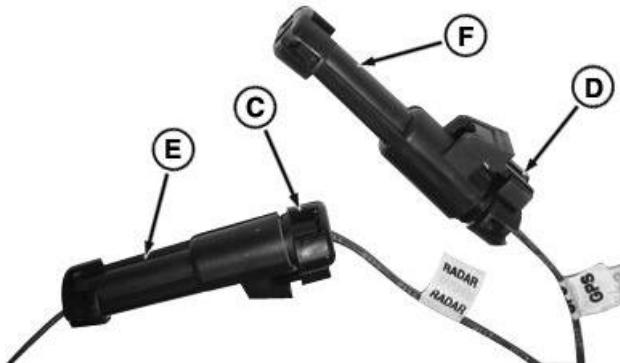
On tractors not equipped with radar, two control unit addresses have to be changed to add a GPS signal. Contact your John Deere™ dealer.

A—Screws  
B—Power Strip  
C—Radar Connector

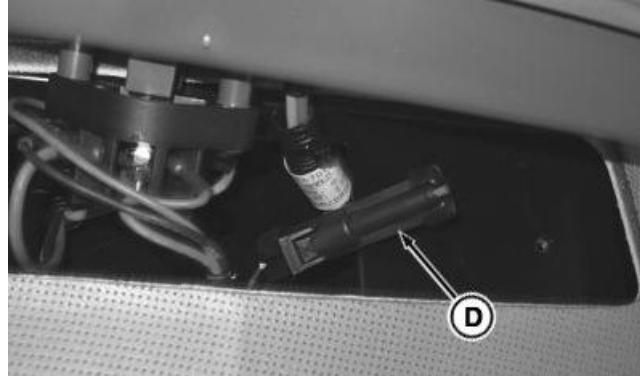
D—GPS Connector  
E—Tractor Harness Connector  
F—Dust Cap



Remove Screws And Optional Power Strip



Configured Connector For Radar



Remove Connector

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RXA0100215 -UN-23JAN09

RXA0100213 -UN-23JAN09

RXA0100217 -UN-23JAN09

## Mount StarFire™ Receiver

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

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

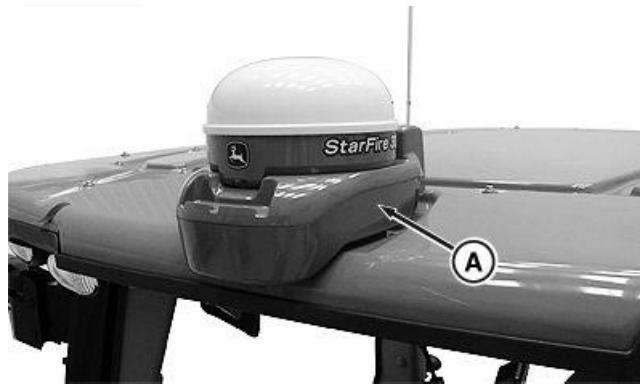
Mount StarFire™ receiver (A) on StarFire™ receiver bracket (B).

*NOTE: Refer to your John Deere™ dealer or to StarFire™ receiver installation instructions for further compatibility.*

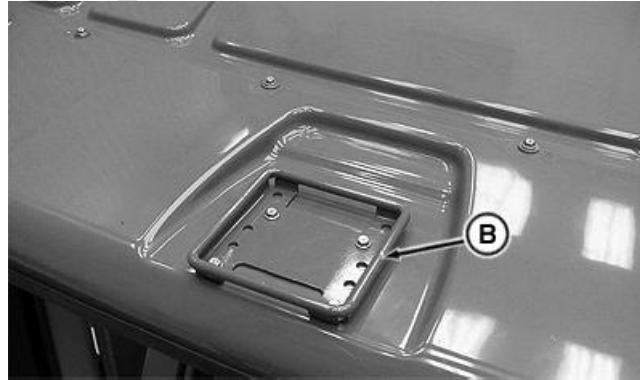
*See your John Deere™ dealer for compatible adapter harnesses.*

A—StarFire™ Receiver

B—StarFire™ Receiver Bracket



StarFire™ Receiver Mounted on StarFire™ Receiver Bracket



StarFire™ Receiver Bracket

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RXA0107026 -UN-31MAR10

RXA0107027 -UN-31MAR10

## Install GreenStar™ System Components

**IMPORTANT:** This vehicle employs one or more CAN bus networks. Connecting unapproved devices to vehicle network(s) may cause machine to degrade in performance or fail to perform properly. Further, unapproved devices that attempt control of tractor functions should not be connected to implement network (ISOBUS).

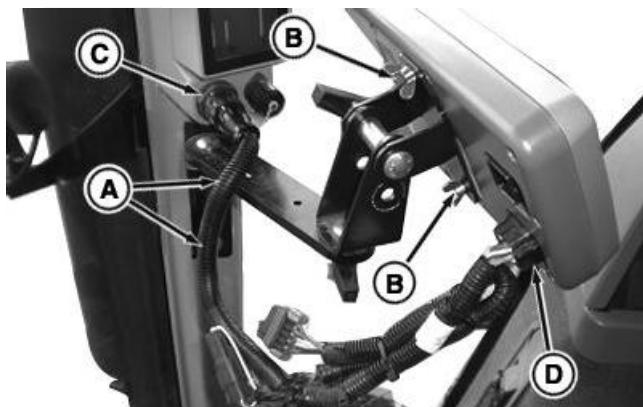
1. Attach bracket to corner post mounts (A).
2. Attach display to bracket using wing nuts (B) (provided with display).
3. Attach harness to corner post connector (C) and lower GreenStar™ display connector (D) on back of display.
4. Position display so it is comfortable to reach and does not obstruct operator view.
5. Connect StarFire™ receiver connector (E) to Starfire™ receiver (F).

**NOTE:** See your John Deere™ dealer for compatible adapter harnesses.

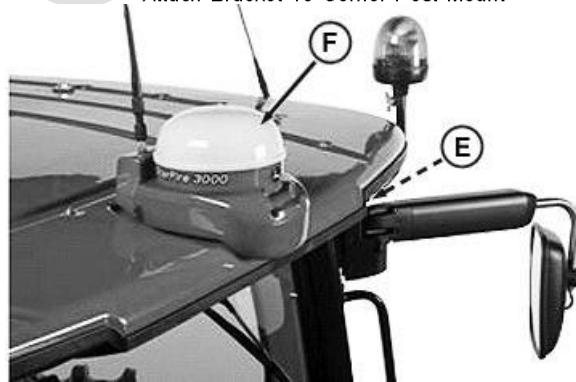
A—Corner Post Mounts  
B—Wing Nuts

C—GreenStar™ Corner Post Connector

D—GreenStar™ Display Connector  
E—StarFire™ Receiver Connector  
F—StarFire™ Receiver



Attach Bracket To Corner Post Mount



Connect StarFire™ Receiver

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

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RXA0104665—UN—10SEP09

RXA0109899—UN—20AUG10

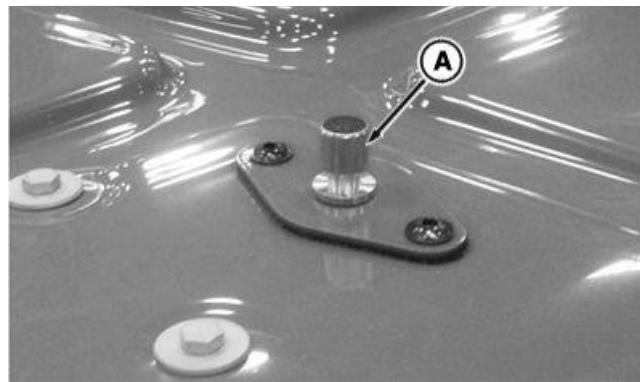
## Install Machine Communications Radio (MCR) Antenna (If Equipped)

**NOTE:** This antenna is only be available for machines that have a factory installed Machine Communications Radio, "John Deere Farmsight™ and MCR" option.

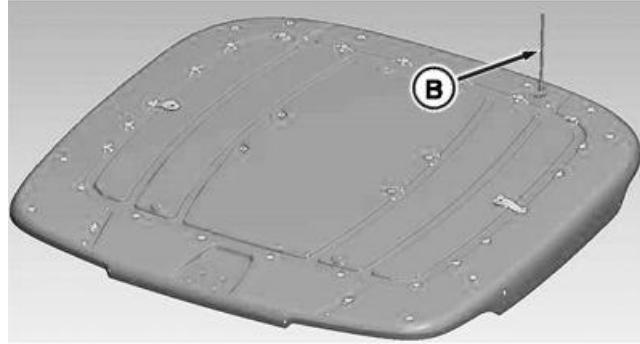
1. Remove antenna from storage under passenger seat.
2. Remove cap from MCR antenna post (A) from rear left roof.
3. Screw MCR antenna (B) onto MCR antenna post.

A—MCR Antenna Post

B—MCR Antenna



MCR Antenna Post



Connect MCR Antenna

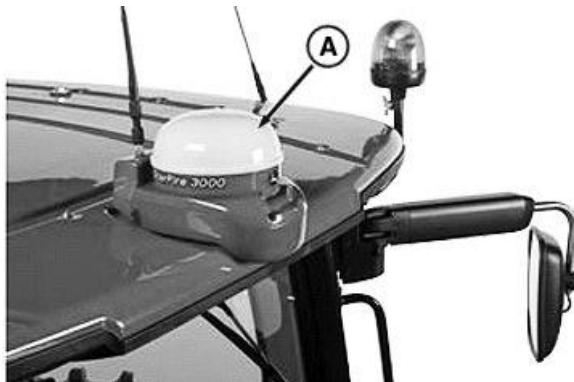
*John Deere Farmsight is a trademark of Deere & Company*

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RXA0131714 -UN-15APR13

RXA0131715 -UN-15APR13

## Connect AutoTrac™ Assisted Steering System (If Equipped)



StarFire™ Receiver

RXA010998—UN—20AUG10



John Deere™ 4600 CommandCenter™

RXA0133300 —UN—08JUL13



John Deere™ 4100 CommandCenter™

RXA013532 —UN—08JUL13

**NOTE:** Electro-hydraulic steering is required for AutoTrac™ to function.

Refer to AutoTrac™ Operator's Manual for detailed instructions.

- AutoTrac™ system utilizes StarFire™ position receiver (A) and GreenStar™ Display 2630 (B)<sup>1</sup> to assist operator in steering tractor.
- Operator must resume manual control at end of each pass and when field obstacles are encountered. Steering control is obtained by simply turning steering wheel.

**NOTE:** See your John Deere™ dealer for compatible adapter harnesses.

A—Position Receiver  
B—10.4 inch display

C—AutoTrac™ Resume Button  
D—7 inch display

StarFire is a trademark of Deere & Company  
John Deere is a trademark of Deere & Company  
CommandCenter is a trademark of Deere & Company  
GreenStar is a trademark of Deere & Company  
AutoTrac is a trademark of Deere & Company

<sup>1</sup>GreenStar Display 1800 (C) OR 2600 (D) are compatible

TO84419,00000AE -19-12JUL13-1/1

## Monitor Bracket Mounts



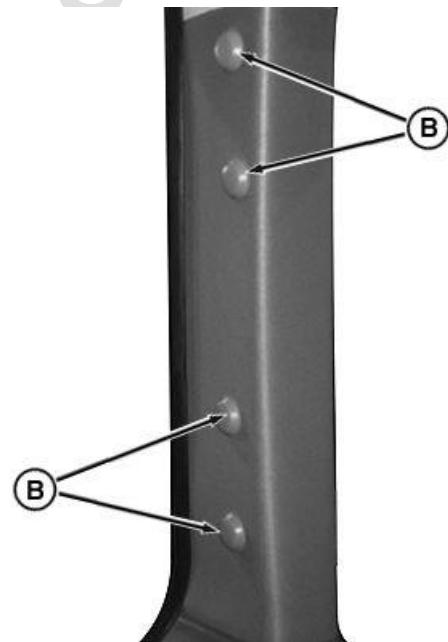
Front Corner Post Mounting Points

A—Front Corner Post Mounting Points    B—Rear Corner Post Mounting Points

Front corner post mounting points (A) and rear corner post mounting points (B) are used to connect implement monitors to cab using M10 cap screws. See your John

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RXA0126731—UN—07JUN12



Rear Corner Post Mounting Points

RXA0100908—UN—06MAR09

Deere™ dealer for brackets that utilize these mounting points.

TO84419,00000AF -19-27NOV12-1/1

## Use Manual Mirror (If Equipped)

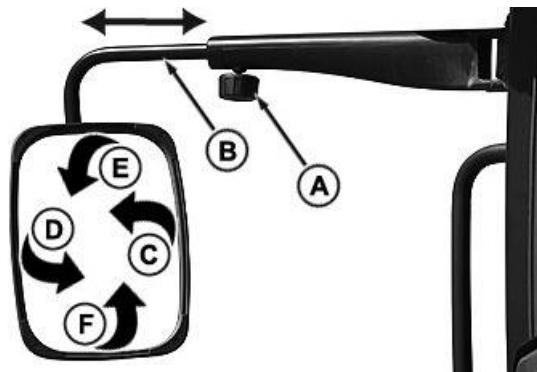
Loosen mirror arm locking knob (A) and slide mirror arm to desired position. Securely tighten locking knob when adjustment is complete.

Push on mirror to move surface into desired position.

Using a soft cloth after mirror is adjusted, wipe any smudges off face of mirror.

A—Mirror Arm Adjustment Knob  
B—Mirror Arm  
C—Inside Edge

D—Outside Edge  
E—Upper Edge  
F—Lower Edge

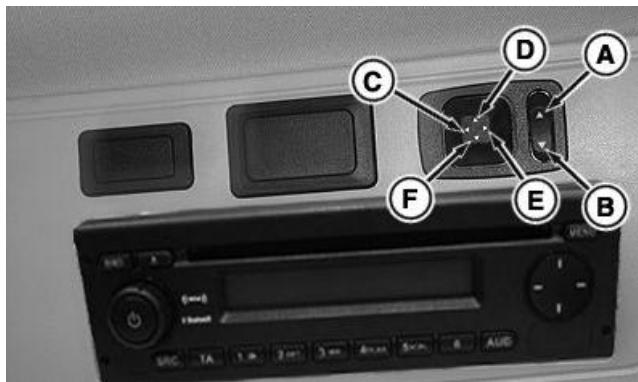


Manual Mirror

RXA0126037—UN—06SEP11

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## Use Electric Mirror (If Equipped)

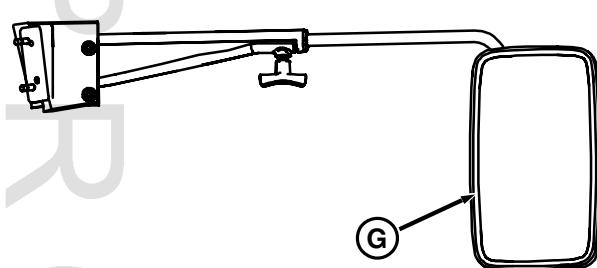


Rear-View Mirror Switch

A—Selection Switch—Right Mirror  
B—Selection Switch—Left Mirror      C—Angle Left  
D—Tilt Up      E—Angle Right      F—Tilt Down

1. Select right (A) or left (B) mirror.
2. Push adjustment switch to angle mirror left (C or right (E).

RXA0128084—UN—12SEP12



Electrical Rear-View Mirror (Right-Hand Side Shown)

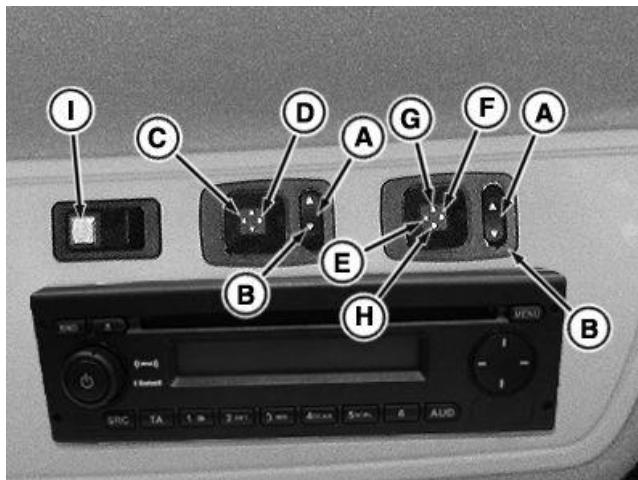
F—Tilt Down  
G—Electrical Rear-View Mirror

3. Push adjustment switch to tilt mirror up (D) or down (F).

RXA0100485—UN—06MAR09

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## Use Telescoping Heated Electric Mirror (If Equipped)

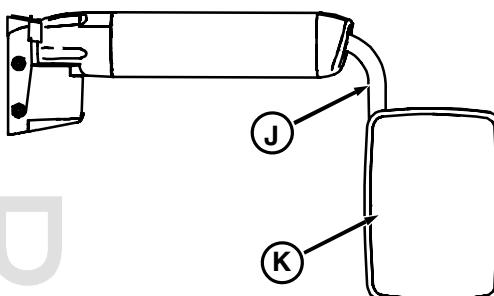


Rear-View Mirror Switch

A—Selection Switch—Right Mirror  
B—Selection Switch—Left Mirror      C—Extend  
D—Retract      E—Angle Left  
F—Angle Right      G—Tilt Up  
H—Tilt Down      I—Heating Switch

1. Select right (A) or left (B) mirror.
2. Push adjustment switch to extend (C) or retract (D).
3. Push adjustment switch to tilt mirror up (G) or down (H).
4. Push adjustment switch to angle mirror left (E) or right (F).

RXA0128083—UN—12SEP12



Telescoping Electrical Rear-View Mirror (Right-Hand Side Shown)

J—Telescoping Arm  
K—Mirror

Pressing heating switch (I) turns mirror heating on or off. When heat is on, switch is illuminated. Heating will continue until it is switched off or key switch is turned off. If heating switch is not manually turned off, mirror heating will restart when key switch is turned to accessory or on position.

TO84419,00000B2 -19-12AUG13-1/1

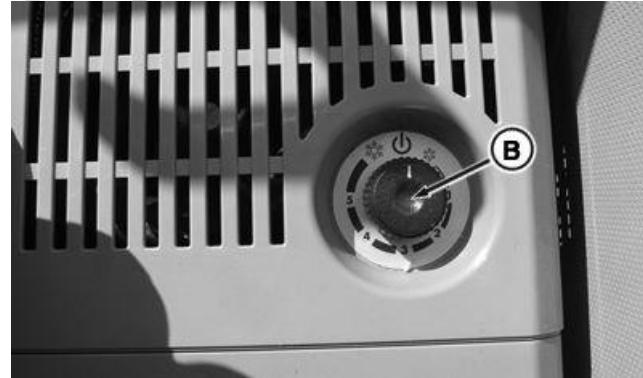
RXA0100486—UN—06MAR09

## Refrigerator or Storage Space (If Equipped)

*NOTE: Refrigerator only works when ignition key is in RUN or ACC positions.*

Use refrigerator controls to adjust temperature inside of refrigerator. Levels are from off to 5, with 5 being coldest temperature possible.

A—Refrigerator/Storage Space    B—Refrigerator Controls

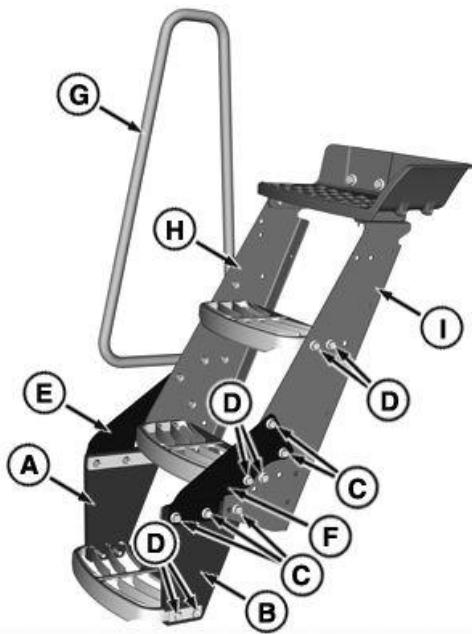


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RXA0134926—UN—15AUG13

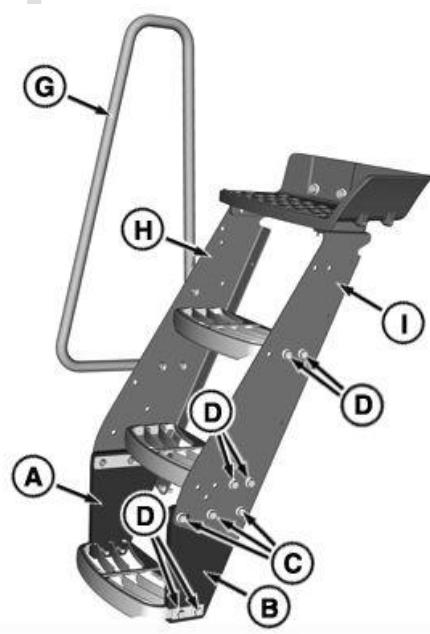
RXA0134923—UN—14AUG13

## Position Left-Hand Steps



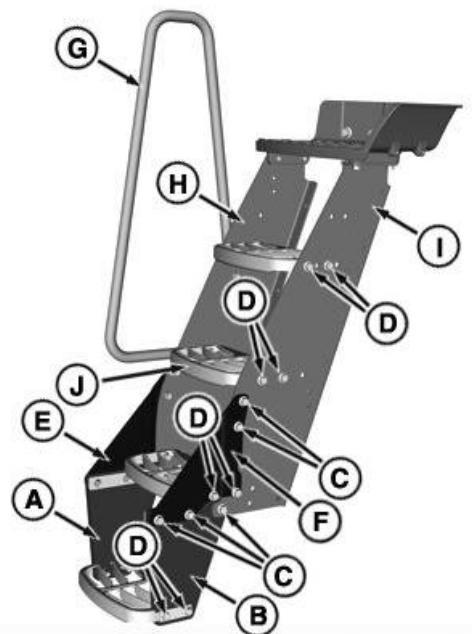
Wide Steps and Hand Rails—Tractors Equipped With Group 47/48 Tires

RXA0131506 —UN—25MAR13



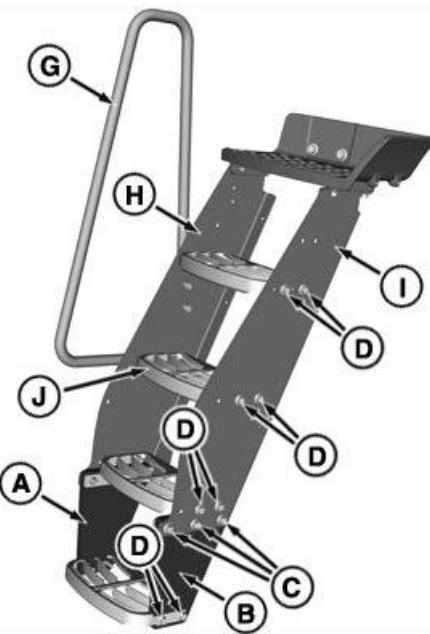
Narrow Steps and Hand Rails—Tractors Equipped With Group 47/48 Tires

RXA0131470 —UN—25MAR13



Wide Steps and Hand Rails—Tractors Equipped With Group 49 Tires

RXA0131508 —UN—25MAR13



Narrow Steps and Hand Rails—Tractors Equipped With Group 49 Tires

RXA0131507 —UN—25MAR13

- A—Lower Side Panel 1  
B—Lower Side Panel 2  
C—Panel Positioning Bolts

- D—Step Positioning Bolts  
E—Side Bracket 1 (Wide Steps Only)  
F—Side Bracket 2 (Wide Steps Only)  
G—Handrail  
H—Upper Side Panel 1  
I—Upper Side Panel 2  
J—Middle Step (Group 49 Tires Only)

**NOTE:** Step assembly can be adjusted to either wide or narrow position. For wide positioned steps, use round holes in upper and lower side panels. For narrow steps, use square holes in upper and lower side panels.

Remove steps by removing bolts (D).

- G—Handrail  
H—Upper Side Panel 1  
I—Upper Side Panel 2  
J—Middle Step (Group 49 Tires Only)

Remove lower side panels 1 and 2 (A, B) by removing bolts (C) on both sides of step assembly.

To switch from wide position to narrow position, side brackets (E,F) need to be removed, and the lower side panels (A,B) need to be shifted into narrow position as shown.

Continued on next page

TO84419,00000B4 -19-22AUG13-1/2

To switch from narrow position to wide position, attach side brackets 1 and 2 (E,F) to lower and upper side panels (A,B,H,I). Side brackets must be ordered through a dealer for tractors shipped from factory with narrow steps.

Use bolts (D) to adjust individual steps to match step assembly width.

**NOTE:** Upper side panels (H,I) do not have to be removed to change step positions.

On tractors equipped with Group 49 tires, positioning bolts for middle step (J) are also used to hold handrail (G) in place.

Item	Measurement	Specification
Cap Screws	Torque	73 N·m (54 lb-ft)

After correctly positioning steps and handrail, tighten cap screws to specified torque.

Part	Part Number
Group 48 Side Bracket 1 (E)	R542430
Group 48 Side Bracket 2 (F)	R542429
Group 49 Side Bracket 1 (E)	R543230
Group 49 Side Bracket 2 (F)	R542654

TO84419,00000B4 -19-22AUG13-2/2

## Right-Hand Service Steps

**CAUTION:** Exhaust and muffler may be very hot.  
Do not use right side steps to access front step.

Fixed upper step above right fuel tank (A) allows access to right side of cab for service. Three pivoting middle steps (B) and one bottom extendable step (C) provide access to upper step.

Three middle steps (B) pivot into position. Pull down on step to position. When done using step, lift up, step will latch into place. Bottom step (C) slides under fuel tank when not in use.

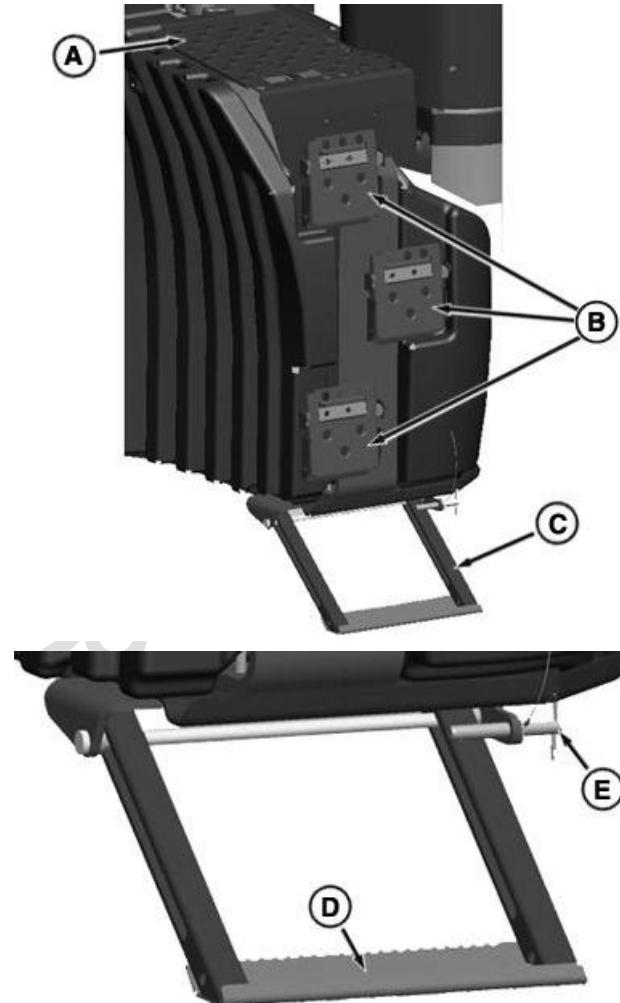
**CAUTION:** To avoid injury, use handhold slot (D) on lowest right-hand step to lower and raise step.

To extend bottom step, pull lock pin (E) forward until completely removed from step support. Grasp step using handhold slot (D) and pull outward and down until completely extended. Fully insert lock pin (E) in step support to secure bottom step when in stored position.

Retract and securely store all middle and lower steps when not in use. Use handholds to move steps.

A—Upper Step  
B—Middle Pivoting Steps  
C—Bottom Extendable Step

D—Bottom Step Handhold Slot  
E—Lock Pin



RXA0126732 -UN-29OCT12

RXA0126733 -UN-07JUN12

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# Operating the Engine

## Exhaust Filter System Overview

Machine is equipped with emission compliant engine which cleans and filters exhaust gas. Under normal machine operation and with system in AUTO mode, system requires minimal operator interaction.

To avoid buildup of diesel particulates or soot in exhaust filter system:

- Utilize AUTO Exhaust Filter Cleaning mode.
- Avoid unnecessary idling.
- Use proper engine oil (see Diesel Engine Oil in Fuels, Lubricants, and Coolants Section of this Operator's Manual).
- Use only ultra low sulfur fuel (see Diesel Engine Oil in Fuels, Lubricants, and Coolants Section of this Operator's Manual).

## Exhaust Filter System Clean

**IMPORTANT:** Disable mode (D) should be used when temporarily connected to an indoor ducted exhaust system for diagnostic and repair activities.

Exhaust Filter Cleaning will automatically reset back to AUTO mode after every key cycle.

**NOTE:** Parked Exhaust Filter Cleaning indicator (A) may be active or inactive (grayed out) depending on exhaust filter restriction level (see Parked Exhaust Filter Cleaning later in this section of this Operator's Manual).

There are two exhaust filter system modes: AUTO (C) and Disabled (D).

Use shortcut buttons or follow alternative path to change filter cleaning setting:

1. Select Menu .
2. Select Tractor Settings tab.
3. Select Engine icon.
4. Select Auto Exhaust Cleaning Mode (B).
5. Select Auto Exhaust Filter Cleaning Mode toggle (C) to allow exhaust filter system to perform cleaning as required

**IMPORTANT:** Avoid Disabled mode unless absolutely necessary. Repeated disabling or ignoring prompts to perform manual / parked cleaning procedure will cause additional engine power limitation and can eventually lead to required dealer service.

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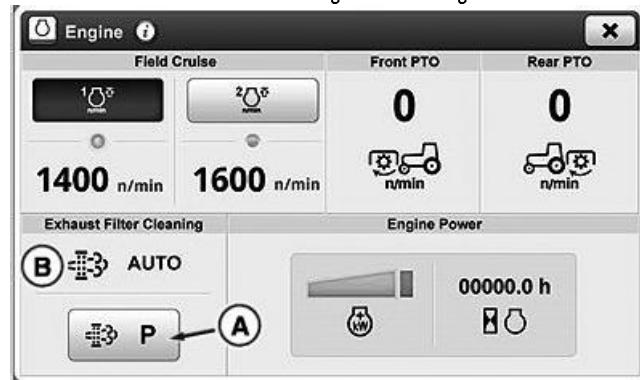


Generation 4 Engine Shortcut Button

RXA0127004 —UN—20JUL12



Menu → Tractor Settings Tab → Engine Icon



RXA0132838 —UN—04JUN13



Exhaust Filter Cleaning

A—Exhaust Filter Cleaning Mode

B—Auto Exhaust Cleaning Mode

C—AUTO Exhaust Filter Cleaning Mode Toggle

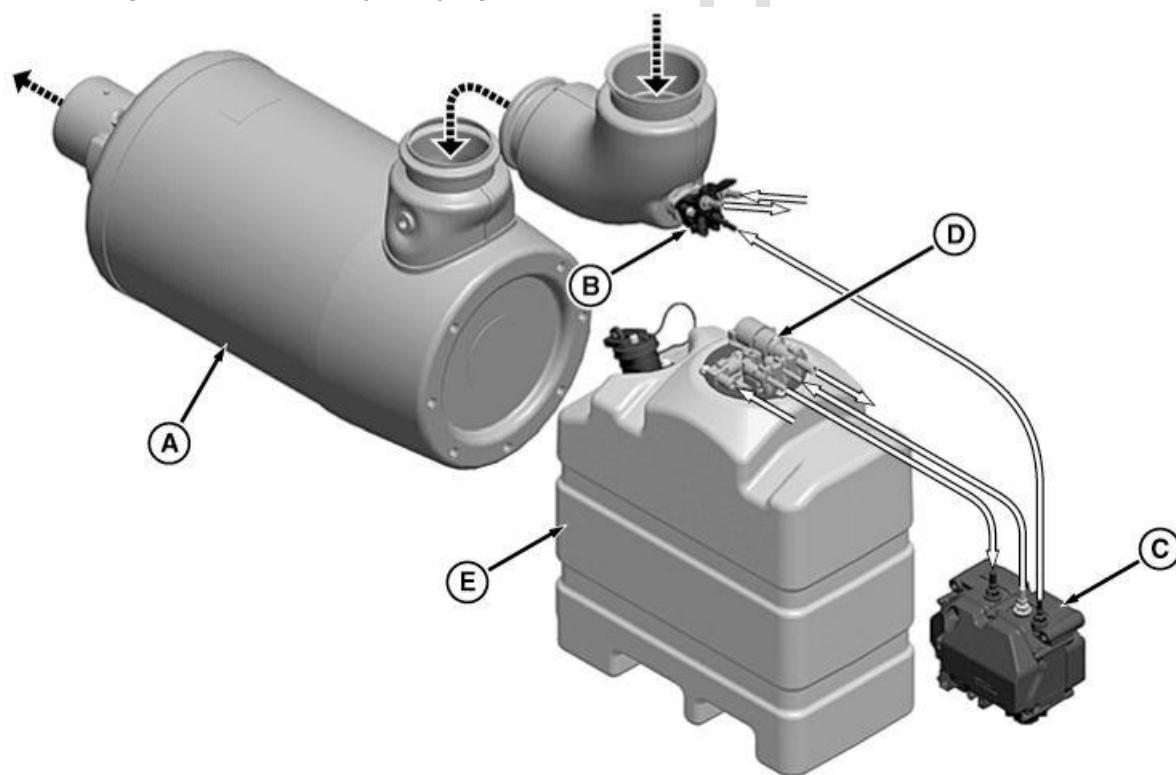
D—Disable Exhaust Filter Cleaning Mode Toggle

6. Select Disable Exhaust Filter Cleaning Mode toggle (D) to disable exhaust filter system.

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RXA0129865 —UN—07DEC12

## Selective Catalytic Reduction (SCR) System Overview



SCR System

A—SCR Catalyst

B—DEF Dosing Injector

C—DEF Dosing Unit

D—DEF Tank Header Assembly

E—DEF Tank

**IMPORTANT: Do not remove battery leads for at least 4 minutes after engine stops. The SCR system automatically purges itself of Diesel Exhaust Fluid (DEF) immediately after the engine is stopped. If adequate time is not allowed for lines to be purged, residual DEF can freeze and possibly damage components of the SCR system during cold-weather exposure.**

In order to comply with national and local emission requirements, this engine series contains a Selective Catalytic Reduction (SCR) system. The main components of the SCR system include the SCR catalyst (A), DEF dosing injector (B), DEF dosing unit (C), DEF tank header assembly (D), and DEF tank (E). The SCR system is effective at reducing the nitrogen oxides (NOx) emissions. NOx is a major component of smog and acid rain.

During combustion, NOx molecules are formed in the exhaust. DEF is injected into the exhaust stream before the SCR catalyst. Through a chemical reaction in the SCR, NOx is converted into nitrogen and water.

Water vapor is a normal by-product of combustion. During cold-weather operation at low exhaust temperatures,

this water vapor can condense and resemble white smoke from the exhaust. This will dissipate as operating temperature increases and the water is further vaporized. This situation is considered normal.

A DEF solution begins to crystallize and freeze at -11 °C (12 °F). With climate temperatures that can range much colder than this, DEF is expected to freeze in the DEF tank. For this reason, the DEF tank contains a heating element that provides rapid thawing of DEF upon start-up. The heating element cycles to maintain fluidity during operation as needed. DEF is not dosed upon initial start-up, therefore it is not necessary to have liquid DEF at cold start-up.

If DEF quality deteriorates and it is no longer within specifications, the engine can derate. DEF should be crystal clear with a light ammonia smell. If DEF appears cloudy, has a colored tint, or has a profound ammonia smell, it is likely not within specification. A Diagnostic Trouble Code (DTC) is displayed, informing the operator to replace the DEF. Upon replacement of DEF and operation of the engine under load for a period of time or an exhaust filter cleaning, the code automatically goes away with no required input from the operator.

DX,SCR,OVERVIEW -19-12JUL13-1/1

## Auto Exhaust Filter Cleaning Mode

Auto mode allows Exhaust Filter System to perform exhaust filter cleaning whenever required. Cornerpost Display indicators and CommandCenter™ prompts provide operator information related to exhaust filter system activity.

Exhaust Filter Cleaning Indicator (A) illuminates when exhaust filter system is performing exhaust filter cleaning.

**IMPORTANT:** During exhaust filter cleaning operation, there may be higher exhaust gas temperatures and engine may operate at elevated idle.

**Exhaust Filter Restricted**—Depending on operating conditions, Exhaust Filter System may request a change in tractor operation. CommandCenter™ prompts describe specific operational changes needed.

A—Exhaust Filter Cleaning Indicator

*CommandCenter is a trademark of Deere & Company*



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## Parked Exhaust Filter Cleaning

Parked exhaust filter cleaning is automated to allow system to clean exhaust filter when required. During process engine speed is controlled by system and machine must remain parked to complete procedure. Time required for Parked Exhaust Filter Cleaning process is dependent upon level of exhaust filter restriction, ambient temperatures, and current exhaust gas temperature. CommandCenter™ prompts provide estimated time for completion.

Follow path to perform Parked Exhaust Filter Cleaning:

1. Select Menu.
2. Select Tractor Settings tab.
3. Select Engine Icon.
4. Select Parked Exhaust Filter Cleaning button (A).
5. Conditions for Parked/Service Regeneration to occur are as follows:

- Stop Tractor Motion
- Set engine speed to low idle
- Turn off PTO
- Engage Park

If any of these conditions are not met, service regeneration may not occur.

6. Select Next button (B) once conditions are met.

**IMPORTANT: During parked exhaust filter cleaning operation, engine may operate at elevated idle.**

**Engine speed will be controlled by machine during filter cleaning.**

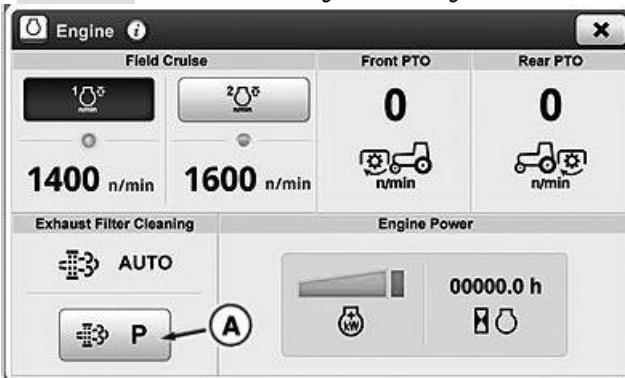
**NOTE:** At any time during parked procedure, process can be cancelled by advancing throttle, engaging transmission, selecting cancel button, or stopping engine.

7. When process starts status page appears. Parked filter cleaning has two steps: preparation and cleaning. During preparation, Exhaust Filter System controls engine speed to increase exhaust temperature. During cleaning, diesel particulates or soot are cleaned from Exhaust Filter System. Parked exhaust filter cleaning may exceed 40 minutes.
8. Once parked filter cleaning process is complete select Close Window button (C) to return to previously opened screen.

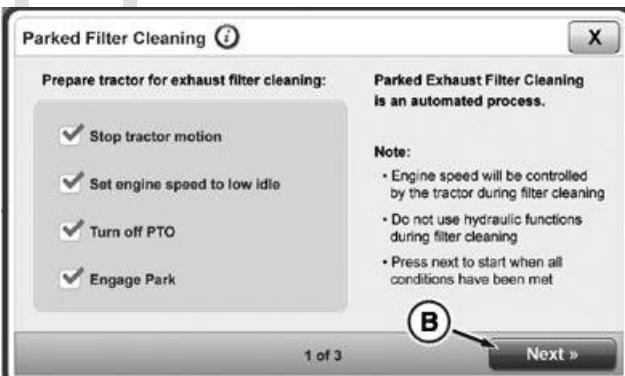
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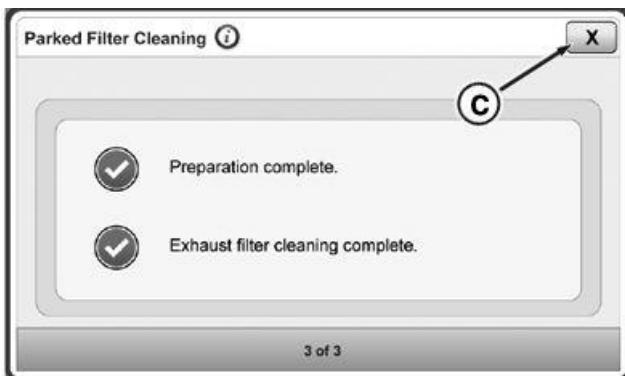
Menu → Tractor Settings Tab → Engine Icon



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RXA0131035 —UN—18FEB13



RXA0131036 —UN—20FEB13

A— Parked Exhaust Filter Cleaning button  
B— Next button

C— Close Window button

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## Selective Catalyst Reduction (SCR) System - Final Tier 4 and Stage IV Engines

**IMPORTANT:** To determine with which engine type tractor is equipped, see Record Engine Serial Number in Identification Numbers Section of this Operator's Manual.

**IMPORTANT:** It is unlawful to tamper with or remove any component of the aftertreatment system. It is also unlawful to use Diesel Exhaust Fluid (DEF) that does not meet the specifications provided or to operate the vehicle with no DEF.

**IMPORTANT:** Using incorrect or unapproved aftertreatment components can cause damage to vehicle's aftertreatment system and reduce ability of aftertreatment system to function correctly. Never interchange aftertreatment components between Interim Tier 4/Stage III B and Final Tier 4/Stage IV equipped vehicles.

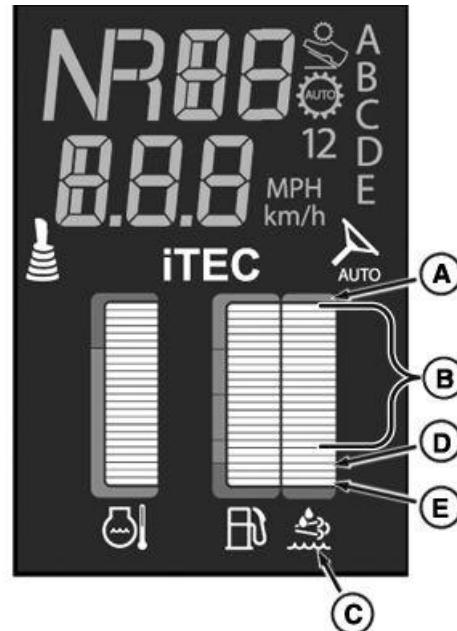
**NOTE:** SCR system monitors quality of DEF flowing through it. If a fluid other than DEF at correct urea concentration is detected, system will display a diagnostic trouble code and a four hour internal counter starts. After four hours, engine power and speed are derated.

SCR system supplies Diesel Exhaust Fluid (DEF) to engine aftertreatment system. DEF works in conjunction with tractor aftertreatment components to reduce emissions. See Fuel, Lubricants and Coolant section in this Operator's Manual for specifications and information about DEF.

Tractor electronic systems monitor DEF level to assure proper performance. Cornerpost displays current DEF level (A). When quantity of DEF reaches reduced levels, systems change tractor operation. Refilling DEF tank will cause system to return tractor to normal operation. Refilling DEF tank every time tractor is refueled is recommended. See Filling DEF Tank in Fuel, Lubricants and Coolant section of this operator's manual.

DEF level and operation changes:

**Normal Operation**—When DEF level is within this range (B), DEF symbol is on and tractor operates normally. Always maintain fill within this level for uninterrupted performance.



A—DEF Level Gauge  
B—Normal Operation Range  
C—DEF Symbol

D—Low DEF Level 1  
E—Low DEF Level 2

**Low DEF Level 1**—When DEF level drops to first red bar (D), DEF indicator flashes and a diagnostic trouble code are displayed. Tractor operates normally, but refill of DEF tank is recommended.

**Low DEF Level 2**—When DEF level falls below this point (E), DEF indicator stops flashing. A diagnostic trouble code is displayed and engine power and speed are derated. Refill DEF tank and restart tractor to resume normal operation.

DEF freezes at -11°C (12°F) and will not flow to the SCR system. Tractor systems sense low temperature and allow engine to start, even with no DEF flow. Engine coolant is used to thaw fluid in DEF tank when engine is running. If system senses that DEF has thawed and SCR system is operating normally within forty minutes, tractor is allowed to continue operation. If DEF flow is not sensed within forty minutes, a diagnostic trouble code is displayed and a four hour internal counter starts. After four hours, engine power and speed are derated. Freezing and thawing of DEF does not degrade it.

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