

BRIDGE Series II

User Manual



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Release Notice:

This is the April 2025 release of the User Manual for ALL Bridges, containing ISObus VT application access and JD monitor steering parameter access.

For specific Bridge Installation details, including specific ISObus VT parameter settings and specific steering operation considerations, refer to the Installation Manual designated for your machine.

It is assumed that users of the products described herein have either system integration or technical experience, as well as an understanding of the fundamentals of agricultural machinery.

Disclaimer

While every effort has been made to ensure the accuracy of this document, Agra-GPS Ltd assumes no responsibility for omissions and errors. Nor is any liability assumed for damages resulting from the use of information contained herein. Agra-GPS Ltd shall not be responsible or liable for incidental or consequential damages or a loss of anticipated benefits or profits, work stoppage or loss, or impairment of data arising out of the use, or inability to use, this system or any of its components.

DO NOT USE THE AGRA-GPS BRIDGE IF YOU DISAGREE WITH THE DISCLAIMER.

Important Safety Information

Read this manual and the machine operation & safety instructions carefully before installing the Bridge.

- Follow all safety information presented within this manual.
- If you require assistance with any portion of the installation or service of your equipment, contact Agra-GPS for support.
- Follow all safety labels affixed to the system components. Be sure to keep safety labels in good condition and replace any missing or damaged labels. To obtain replacements for missing or damaged safety labels, contact Agra-GPS.

When operating the machine after installing the Bridge, observe the following safety measures:

- Be alert and aware of surroundings.
- Do not operate the Bridge system while impaired.
- Always remain in the operator's position in the machine when the Bridge system is engaged.
- Determine and maintain a safe working distance away from other individuals. The operator is responsible for disabling the Bridge system when a safe working distance has been diminished.
- Ensure the Bridge is disabled prior to starting any maintenance work on the machine or parts of the Bridge system.
- Follow all safety instructions from your machine as well as the John Deere system.
- The Bridge must only be used in the field, never on public roads.

Introduction

Congratulations on your purchase of an Agra-GPS Bridge! The Bridge is designed to bridge the communication between various agricultural machines and a John Deere (JD) GPS receiver (Starfire) & monitor display – either a JD display, or the Agra-GPS Vision display.

This allows a JD display to create maps in the John Deere format, and also provides autosteer functionality. The operator uses the JD display to create AB-lines or field documentation, or to handle any other GPS system input.

The Bridge contains a full steering controller, customized for particular machine types. All conditions for autosteer such as minimum speed, steering enabled, etc., must be met by the machine before the autosteer engage option can be activated.

NOTICE

This manual is not intended to replace the operation manuals for the machine nor the John Deere GPS system. The operator must read and understand the manuals and instructions of these systems, before using the Bridge.

JD monitors supported are: 1800, 2600, 2630, Gen-4 (4240, 4640), and Gen-5.

Sections

- | | |
|-------|--|
| (I) | 1800, 2600 and 2630 Monitors (next page) |
| (II) | Gen 4 and 5 Monitors (page 8) |
| (III) | CRG Vision Monitor (page 13) |

Please follow the instructions corresponding to your monitor type.

Basic Setup Steps:

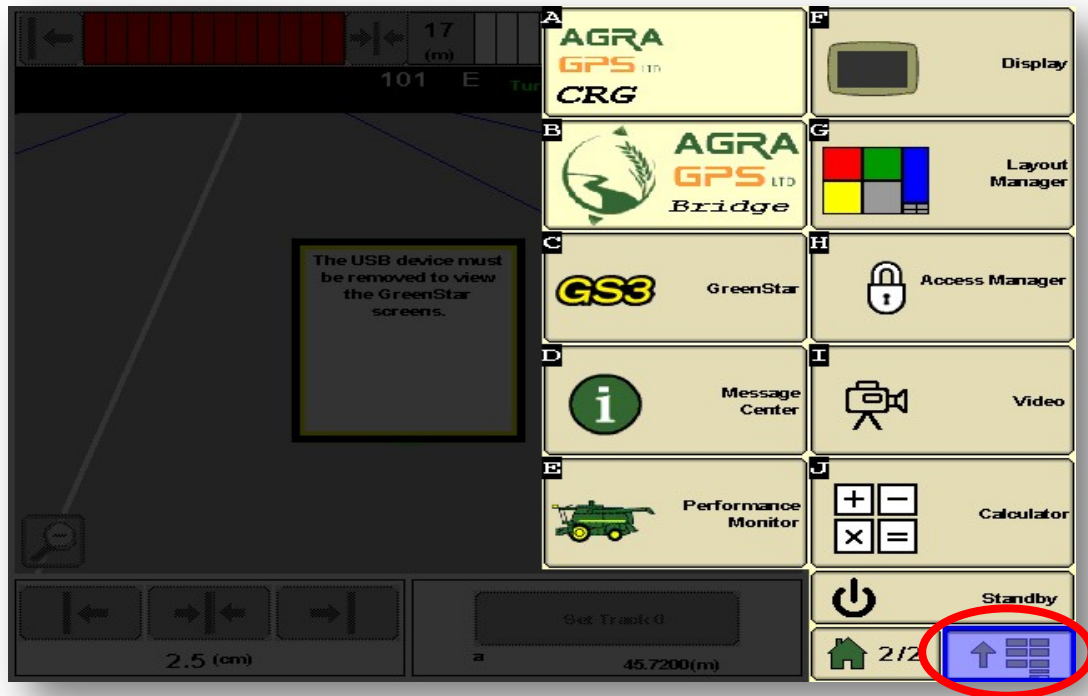
- 1) Install the Bridge, Monitor, and Harness
 - *Refer to the Installation Manual for your specific machine for details, or contact Agra-GPS directly (contact information at <https://www.agragps.com/contact-us>)*
- 2) Select the correct “Machine Type” in the Bridge ISO app
 - **The correct Machine Type MUST be selected for your Bridge to work!**

The following pages provide details for:

- a) accessing the ISO app on various monitors, and
- b) accessing steering adjustments on various monitors

I. 1800, 2600 and 2630 Monitors

On John Deere 1800, 2600, or 2630 the Bridge ISO app will be shown in the side menu of the John Deere display. The side menu (shown below) is opened by pressing the button on the bottom right.



NOTE: John Deere 1800 and 2600 monitors do not show a loading bar for ISO applications, while 2630 does.

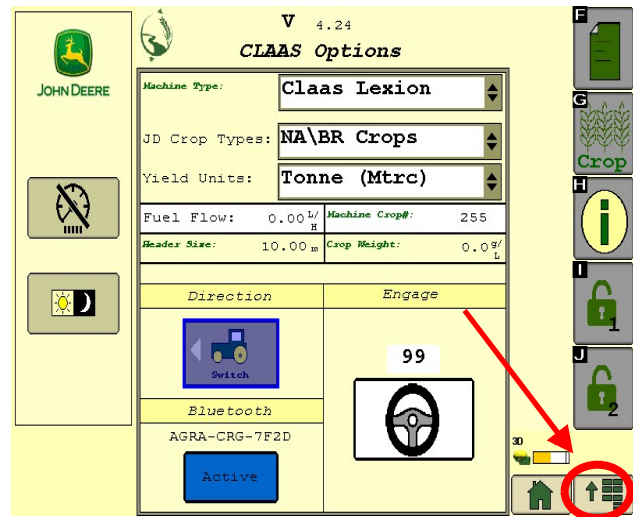
If the ISO application does not load:

- Try clearing the monitor's memory. On 2630 monitors this can be done in the Message Center in the side menu. Go to the Cleanup tab, check controllers, then Begin Cleanup.
- Do a hard reset of the John Deere monitor (Unplug it, then plug it back in).
- Do a full restart of the machine. Remember, the app may take a few minutes to load.

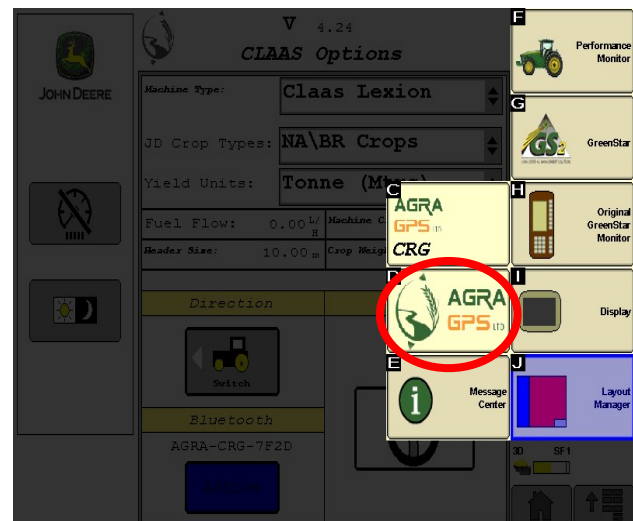
Switching between ISO apps

NOTE: 1800 monitor depicted. The specific ISO app for your machine may appear different. *Refer to the Installation Manual for your specific machine for details.*

On John Deere 1800, 2600, or 2630 monitors ISO apps can be changed directly from the side menu.



The ISO app menu may appear something like this. Select the item as shown to select the Bridge ISO app.

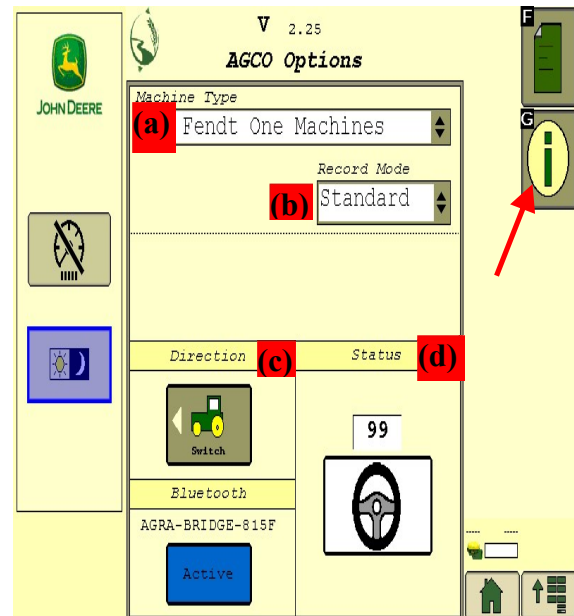


Configure Bridge ISO App

Before adjusting auto-steer performance, the proper settings must be entered into the Bridge ISO app.

The Bridge options home page is shown. Some typical controls are described as follows:

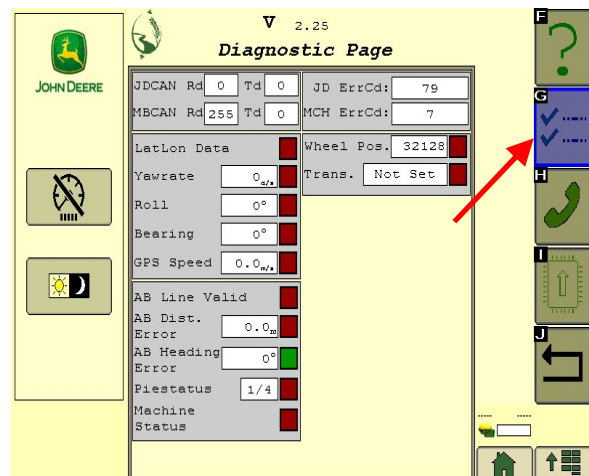
- Ensure the Machine Type and any other Bridge Settings are appropriate for your machine. *Refer to the Installation Manual for your specific machine for details.*
- Record Mode refers to the recording of the work area of the field completed by the implement. Record Mode selects between “Standard” and “On Resume”, where “On Resume” can be triggered by hydraulics (for example, it only records work area when the implement in the ground and not when raised).
- While driving, if the direction of the machine is detected incorrectly, you can force it to change it here.
- You can see how the Bridge detects the steering wheel angle from here, and you can enable auto-steering by pressing the on-screen steering wheel.



Press the button indicated by arrow to access other information pages.

Other information pages include Help , Contact , and Firmware Update  (refer to the Bridge Firmware Update Manual)

The button for accessing the Diagnostic page is indicated by the arrow.

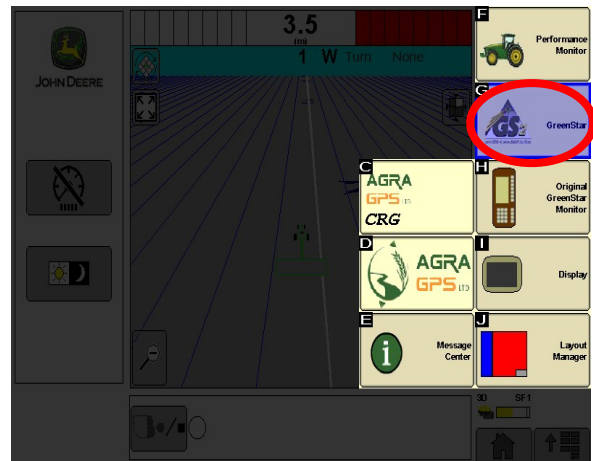


Steering Parameter Adjustments

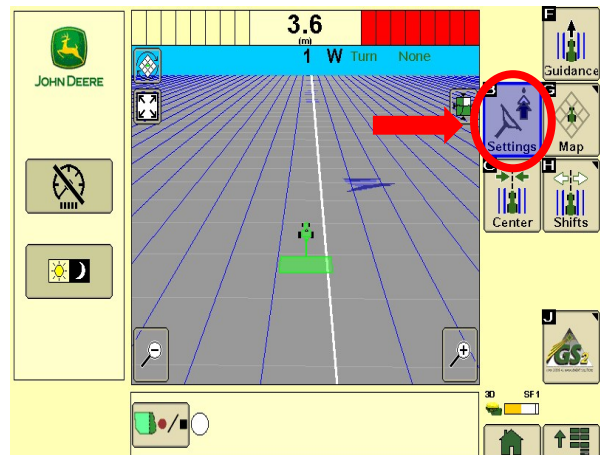
After configuring the Bridge ISO app you can make steering parameter adjustments based on your needs. The location of the setting and possible adjustments varies depending on monitor type.

1800 Display

On the 1800 display open the side menu from the home screen and select the GreenStar option.



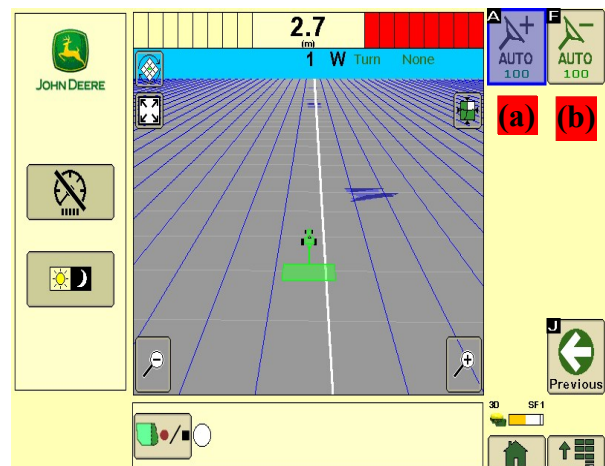
From the GreenStar page click on settings



This page allows you to:

- (a) Increase steering sensitivity
- (b) Decrease steering sensitivity

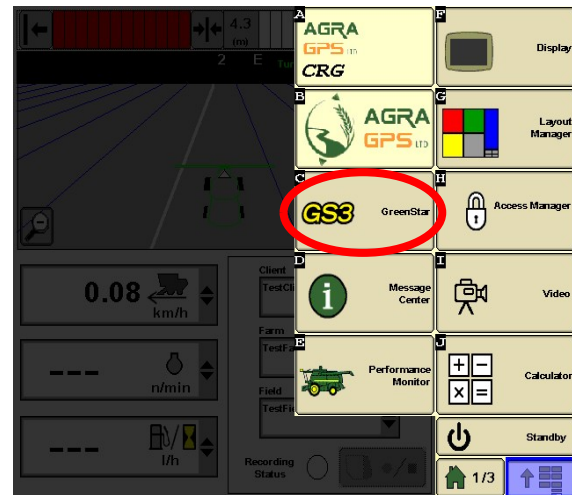
NOTE: The 1800 also has access to advanced AutoTrac settings but are only visible when an SSU that supports advanced AutoTrac settings is detected.



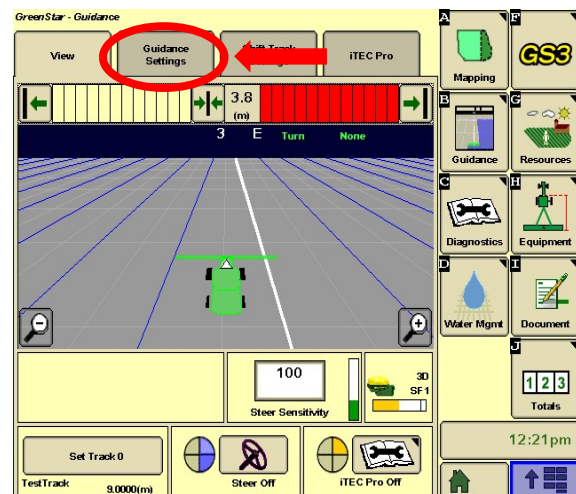
2600 and 2630 Display

NOTE: The 2600 and 2630 have slightly different UI's however the process is the same for both. The images shown are of a 2630 display.

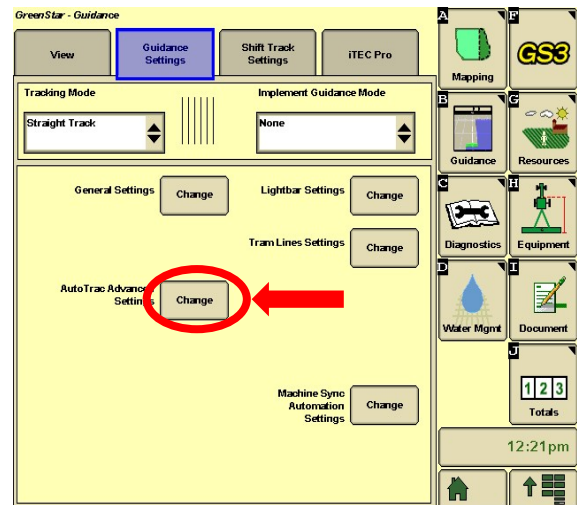
On the display open the side menu from the home screen and select the GreenStar option.



From the GreenStar page select the “Guidance Settings” tab.

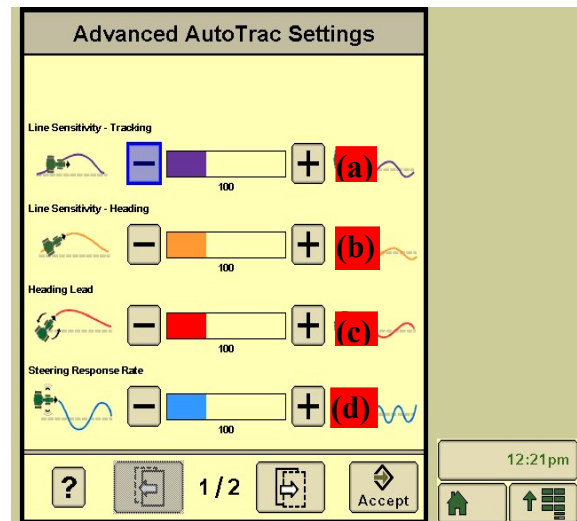


In the “Guidance Settings” tab click the “Change” option next to “AutoTrac Controller Settings”

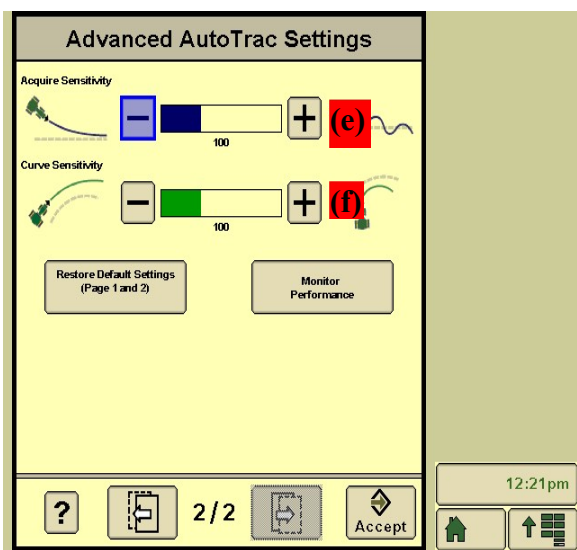


From this page you can access steering adjustments. There are 6 options available including:

- (a) Line Sensitivity Tracking
- (b) Line Sensitivity Heading
- (c) Heading Lead
- (d) Steering Response Rate

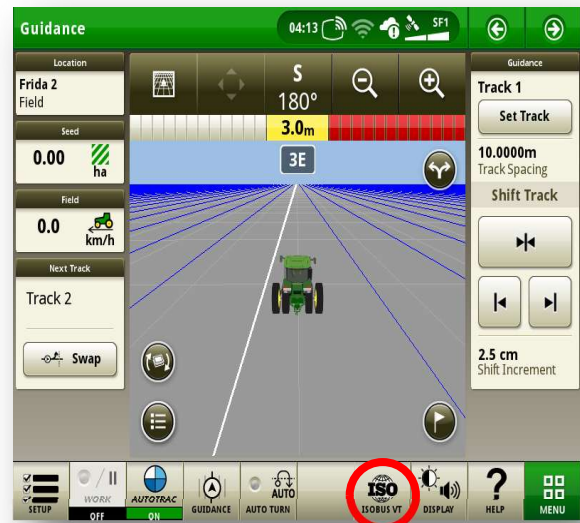


- (e) Acquire Sensitivity
- (f) Curve Sensitivity

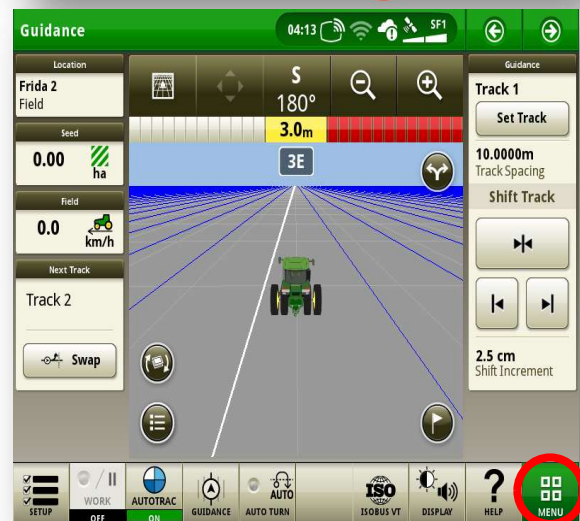


II. Gen 4/5 Monitors

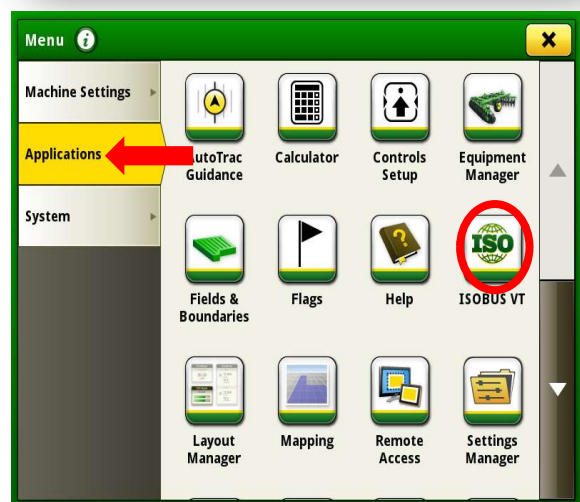
On a John Deere Gen 4 or 5 Display the Bridge ISO app will be loaded in the ISObus VT section on the main page of the display.



If the ISObus VT section does not appear on the bottom of your display it can also be accessed by clicking menu



Once in the menu click the “Applications” tab and the app should appear.



NOTE: If the ISO application does not load:

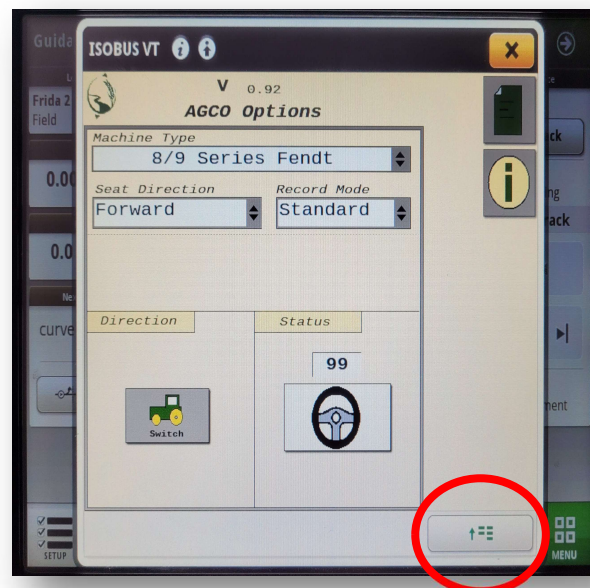
- Try clearing the monitor's memory. On Gen 4 and 5 displays this can be done in the info page of the ISObus VT. Navigate to the ISObus VT window and press the info (i) button at the top of the page, then press Clean Up ISObus VT.
- Do a hard reset of the John Deere monitor (Unplug it, then plug it back in).
- Do a full restart of the machine. Remember, the app may take a few minutes to load.

Switching Between ISO Apps

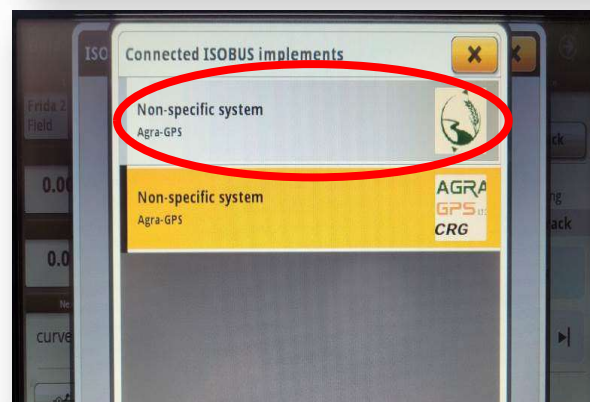
NOTE: Typical Bridge ISO app depicted. The specific ISO app for your machine may appear different. *Refer to the Installation Manual for your specific machine for details.*

On JD Gen 4 and 5 Displays, when accessing ISObus VT, the first page viewed may be some other ISO app, depending on what implement or feature is being used by the tractor.

If necessary, you may have to switch to the Bridge ISO app. To do this, press the button circled to bring up the ISO app menu.



The ISO app menu may appear something like this. Select the item as shown to select the Bridge ISO app.

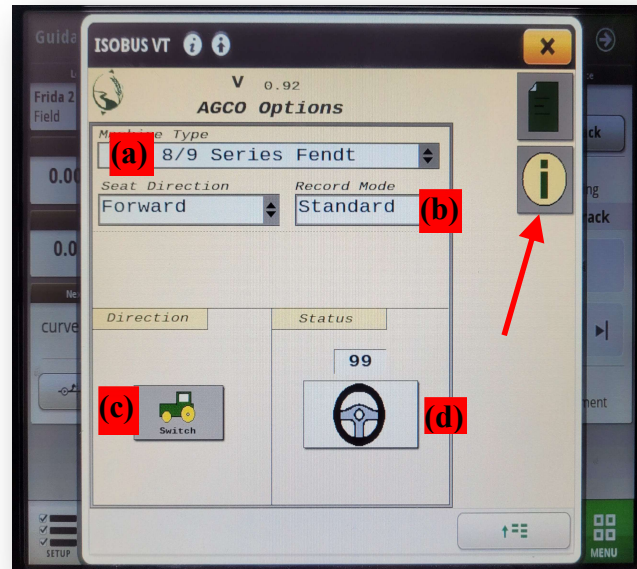


Configure Bridge ISO App

Before adjusting auto-steer performance, the proper settings must be entered into the Bridge ISO app.

The Bridge options home page is shown. Some typical controls are described as follows:

- Ensure the Machine Type and any other Bridge Settings are appropriate for your machine. *Refer to the Installation Manual for your specific machine for details.*
- Record Mode refers to the recording of the work area of the field completed by the implement. Record Mode selects between “Standard” and “On Resume”, where “On Resume” can be triggered by hydraulics (for example, it only records work area when the implement in the ground and not when raised).
- While driving, if the direction of the machine is detected incorrectly, you can force it to change it here.
- You can see how the Bridge detects the steering wheel angle from here, and you can enable auto-steering by pressing the on-screen steering wheel.



Press the button indicated by arrow to access other information pages.

Other information pages include Help , Contact , and Firmware Update  (refer to the Bridge Firmware Update Manual).

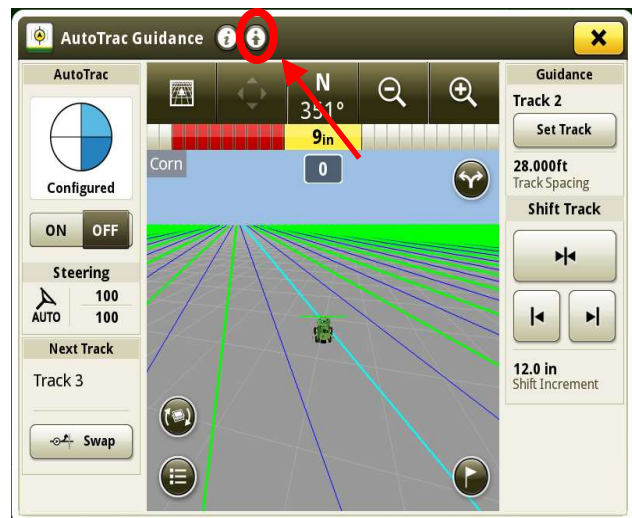
Steering Parameter Adjustments

After configuring the Bridge ISO app you can make steering parameter adjustments based on your needs.

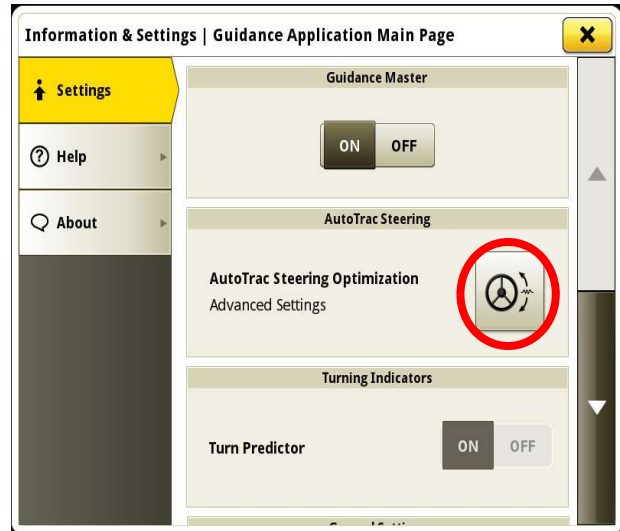
On John Deere Gen 4 and 5 Displays steering parameter adjustments can be reached by clicking the guidance section on the main page of the display.



This will open the AutoTrac guidance page as shown. From here select the information & settings icon on the top of the page.

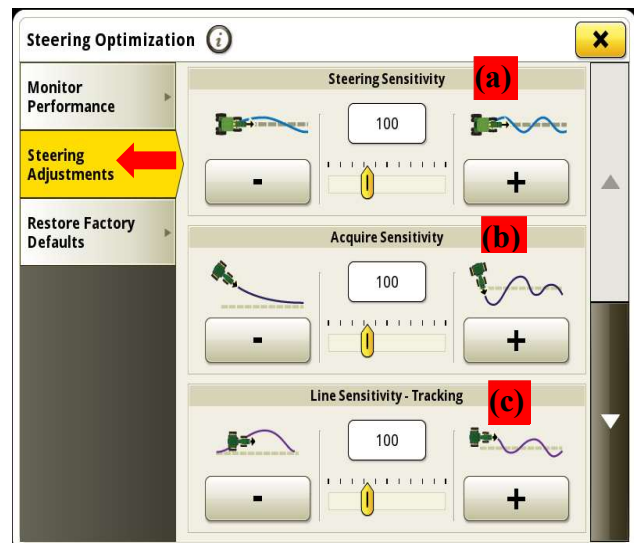


Then select the AutoTrac steering optimization option.

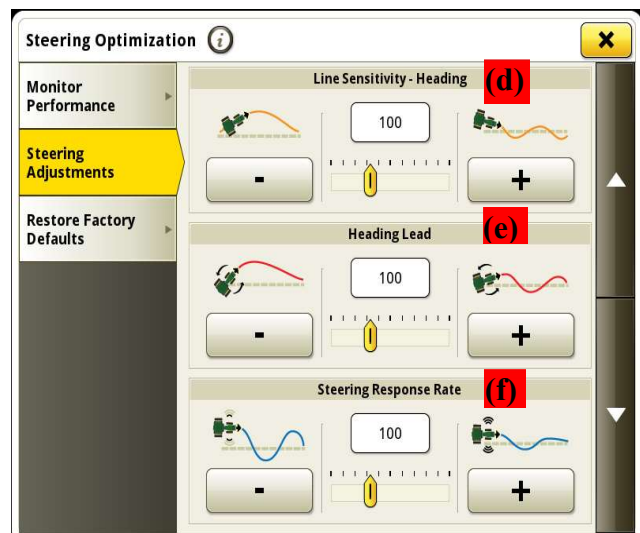


From this page you can access steering adjustments. There are 7 options available including:

- (a) Steering Sensitivity
- (b) Acquire Sensitivity
- (c) Line Sensitivity - Tracking

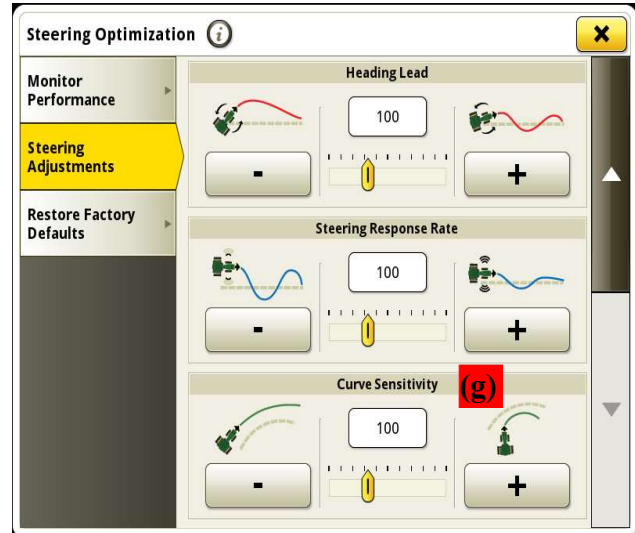


- (d) Line Sensitivity - Heading
- (e) Heading Lead
- (f) Steering Response Rate



(g) Curve Sensitivity

NOTE: To access the unseen options you must scroll down (note the up/down arrows on the right side of the screen).



III. CRG-Vision

The correct Machine Type MUST be selected for your Bridge to work!

Refer to the *Installation Manual* for your specific machine for details, or contact Agra-GPS directly (contact information at <https://www.agragps.com/contact-us>)

On a CRG Vision display the Bridge ISO app will be loaded onto the left side of the main page of the display.

NOTE: If the ISO application does not load:

- Try clearing the monitor's memory. On CRG Vision displays this is done by going to the “ISOBUS” section of settings and clicking the “Delete pools” option.
- Do a hard reset of the CRG Vision monitor (Unplug it, then plug it back in).

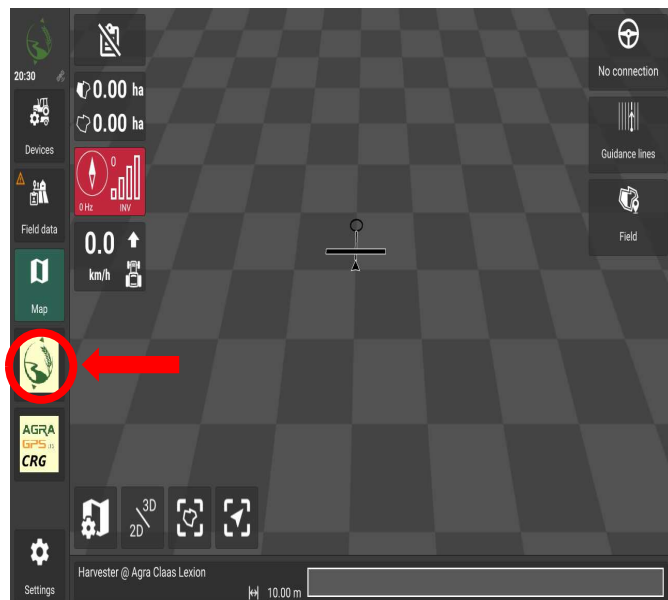
Do a full restart of the machine. Remember, the app may take a few minutes to load.

Switching Between ISO Apps

NOTE: Typical Bridge ISO app depicted. The specific ISO app for your machine may appear different. Refer to the *Installation Manual* for your specific machine for details.

The CRG Vision displays ISO apps on the left side of the main page. You can change between ISO apps simply by tapping on the desired app. Select the item as shown to select the Bridge ISO app.

NOTE: if you have multiple different ISO apps connected you may need to scroll down in order to see all the available options.

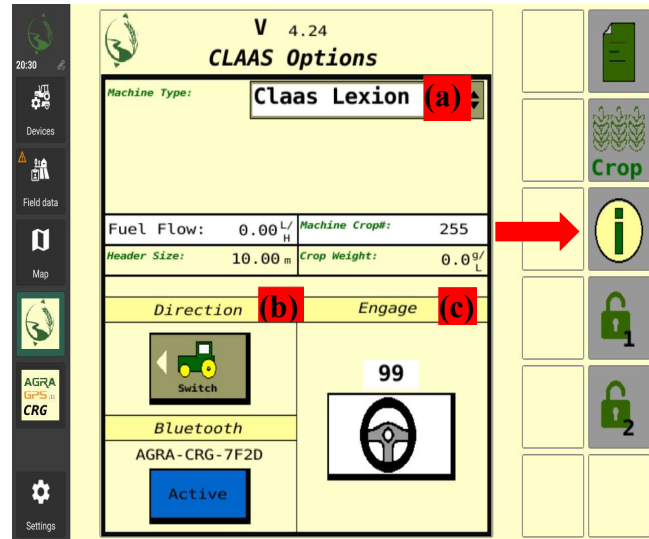


Configure Bridge ISO App

Before adjusting auto-steer performance, the proper settings must be entered into the Bridge ISO app.

The Bridge options home page is shown. Some typical controls are described as follows:

- Ensure the Machine Type and any other Bridge Settings are appropriate for your machine. Refer to the Installation Manual for your specific machine for details.
- While driving, if the direction of the machine is detected incorrectly, you can force it to change it here.
- You can see how the Bridge detects the steering wheel angle from here, and you can enable auto-steering by pressing the on-screen steering wheel.

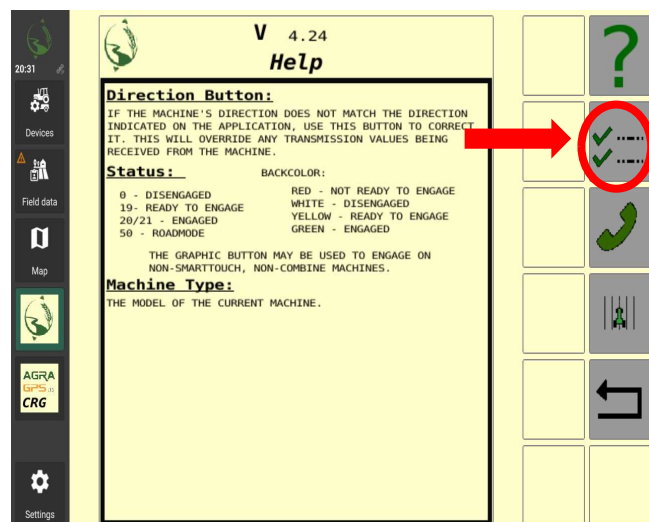


NOTE: This page may have more options depending on your machine type. Refer to the Installation Manual for your specific machine for details.

Press the button indicated by the arrow to access other information pages.

Other information pages include Help  and Contact .

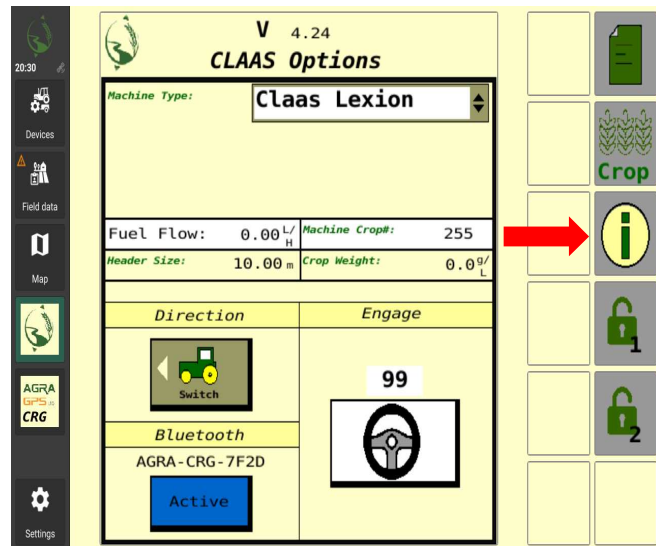
The button for accessing the Diagnostic page is circled.



Steering Parameter Adjustments

After configuring the Bridge ISO app you can make steering parameter adjustments based on your needs.

On a CRG Vision display, steering parameter adjustments can be reached by clicking the information section within the Bridge ISO app



In this section click the icon indicated by the arrow to access Advanced Autosteer Settings. There are 6 options available including:

- (a) Steering Sensitivity
- (b) Line Sensitivity Tracking
- (c) Heading lead
- (d) Steering Response Rate
- (e) Acquire Sensitivity
- (f) Curve Sensitivity

