



# John Deere AutoTrac™ Controller

User Interface

Last Updated: Nov 4, 2011



**JOHN DEERE**

# John Deere AutoTrac™ Controller

Raven

Reichhardt

System Information

Hardware Part Number: PFP17332

Hardware Revision: -

Hardware Serial Number: 0000000123

Software Part Number: 0770171299

Software Version: 1.0.09

Bootloader Version: 3.01

Version Hours: 0000.0

Total Hours: 0000.1

Unswitched Voltage: 13.9

Switched Voltage: 13.6

Sensor Supply Voltage: 5.0

PCB Voltage: 4.9

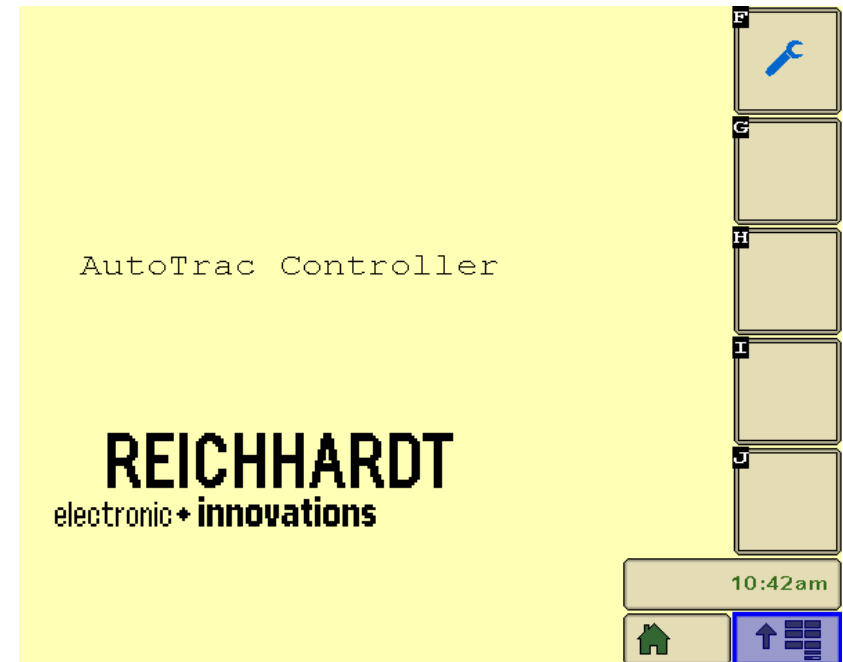
3:17pm

The screenshot shows a green-themed user interface for the Raven system. At the top, the text "System Information" is displayed. Below it, various system parameters are listed in a monospaced font, including hardware and software part numbers, versions, and voltages. A blue square icon with a house symbol is located in the top right corner. At the bottom, there is a digital clock showing "3:17pm" and two navigation buttons: a home button and a menu button.

AutoTrac Controller

**REICHHARDT**  
electronic+innovations

10:42am

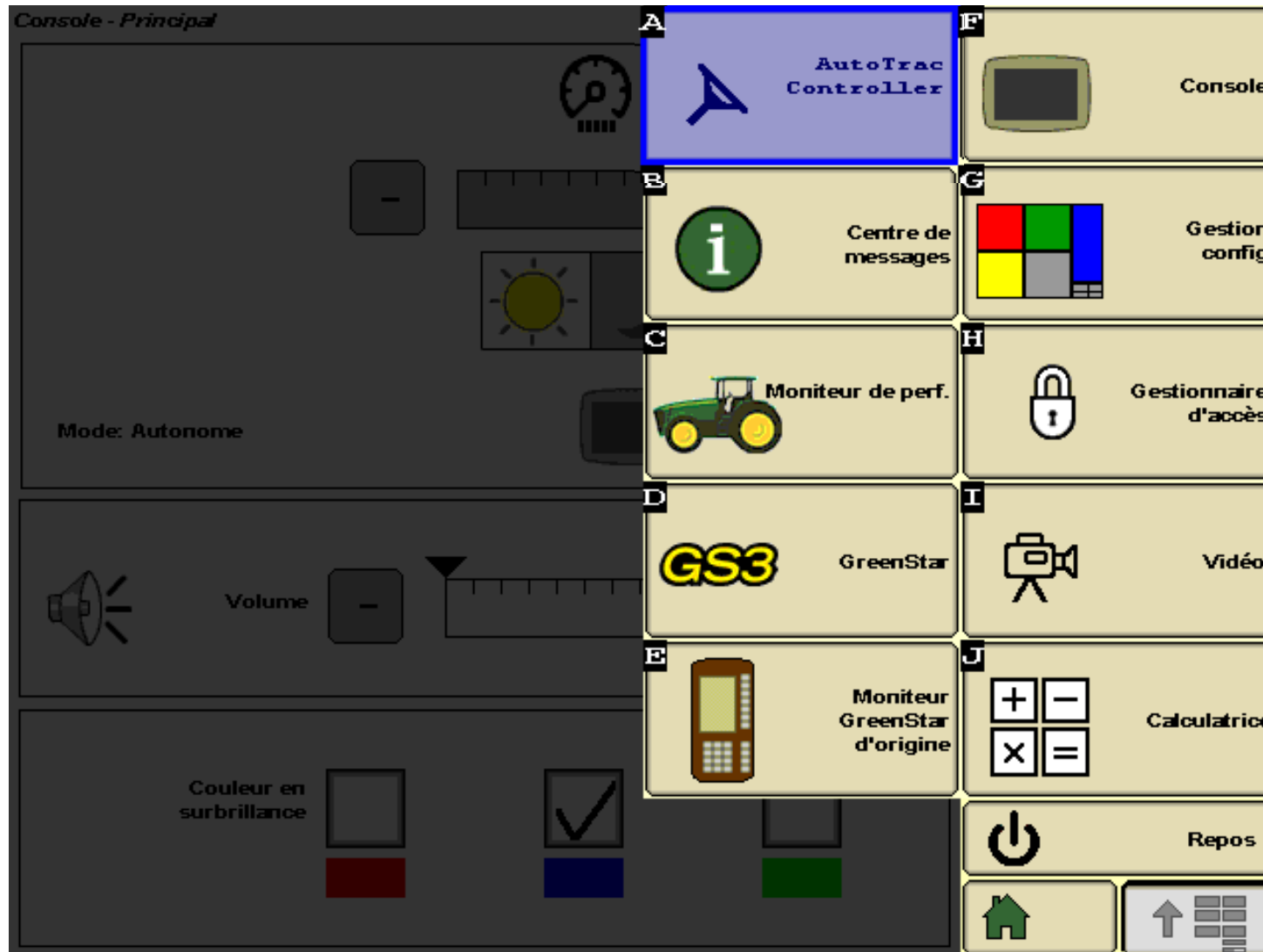
The screenshot shows a yellow-themed user interface for the Reichhardt system. The text "AutoTrac Controller" is centered at the top. Below it is the "REICHHARDT electronic+innovations" logo. On the right side, there is a vertical stack of five menu items labeled F, G, H, I, and J. The top item (F) contains a blue wrench icon. At the bottom, there is a digital clock showing "10:42am" and two navigation buttons: a home button and a menu button, with the menu button highlighted in blue.

Select the UI you want to explore

# John Deere AutoTrac™ Controller - Raven



# John Deere AutoTrac™ Controller - Raven



UI Selection Home

# John Deere AutoTrac™ Controller - Raven

System Information

Hardware Part Number: PFP17332

Hardware Revision: -

Hardware Serial Number: 0000000123

Software Part Number: 0770171299

Software Version: 1.0.09

Bootloader Version: 3.01

Version Hours: 0000.0

Total Hours: 0000.1

Unswitched Voltage: 13.9

Switched Voltage: 13.8

Sensor Supply Voltage: 5.0

PCB Voltage: 4.9

3:17pm



UI  
Selection  
Home

# John Deere AutoTrac™ Controller - Raven

Machine Type:  
Case MX/Magnum 215 - 335

Hydraulic Installation:  
Field

System State:  
Calibration Started

Resume Switch Status:  
OFF

Master Switch Status:  
ON

Operator Status:  
Present

SID Status:  
Inactive

CAL

H

F

1:11pm

UI Selection Home

# John Deere AutoTrac™ Controller – Raven

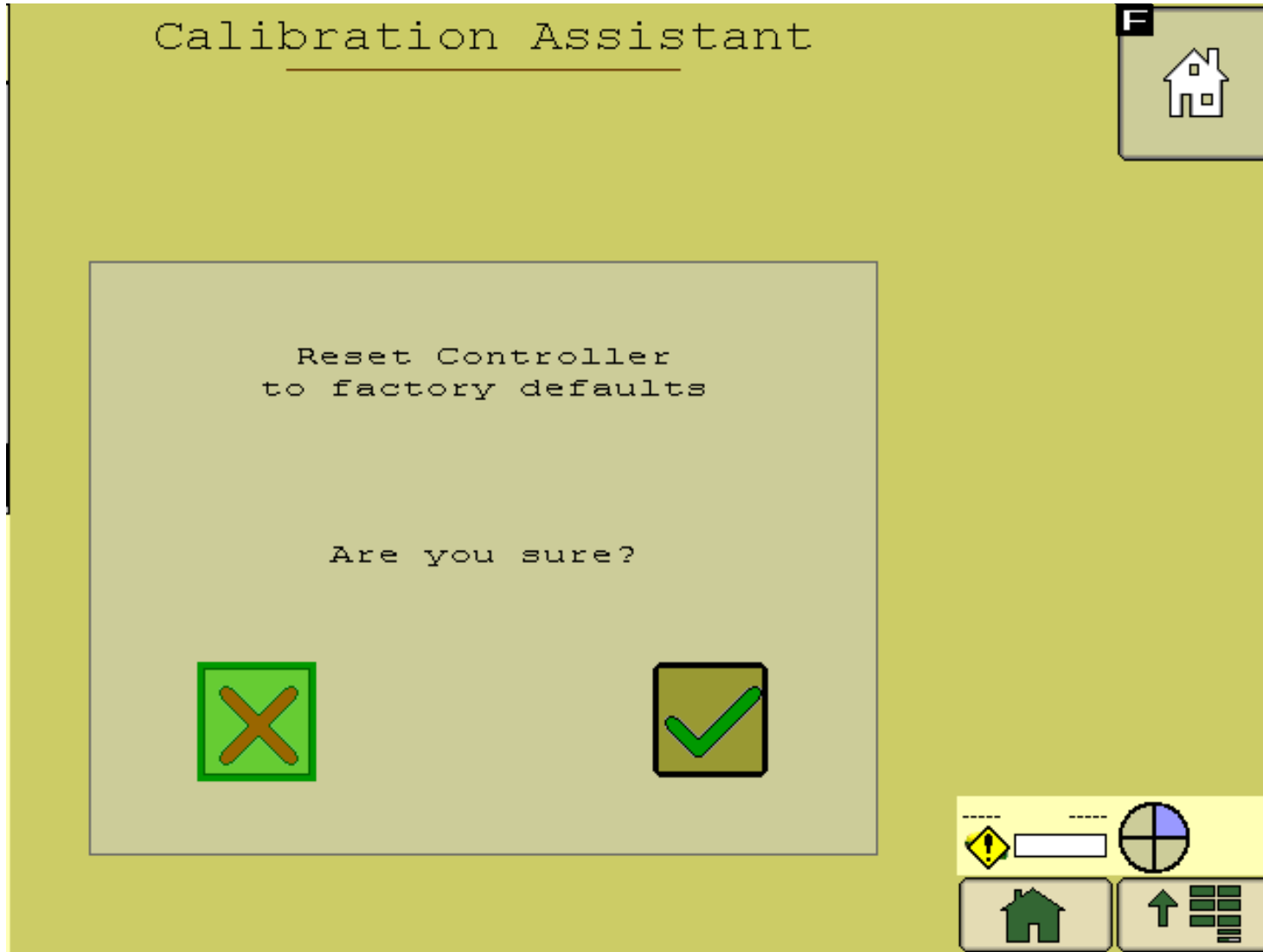
Calibration Assistant

Select one of the following options:

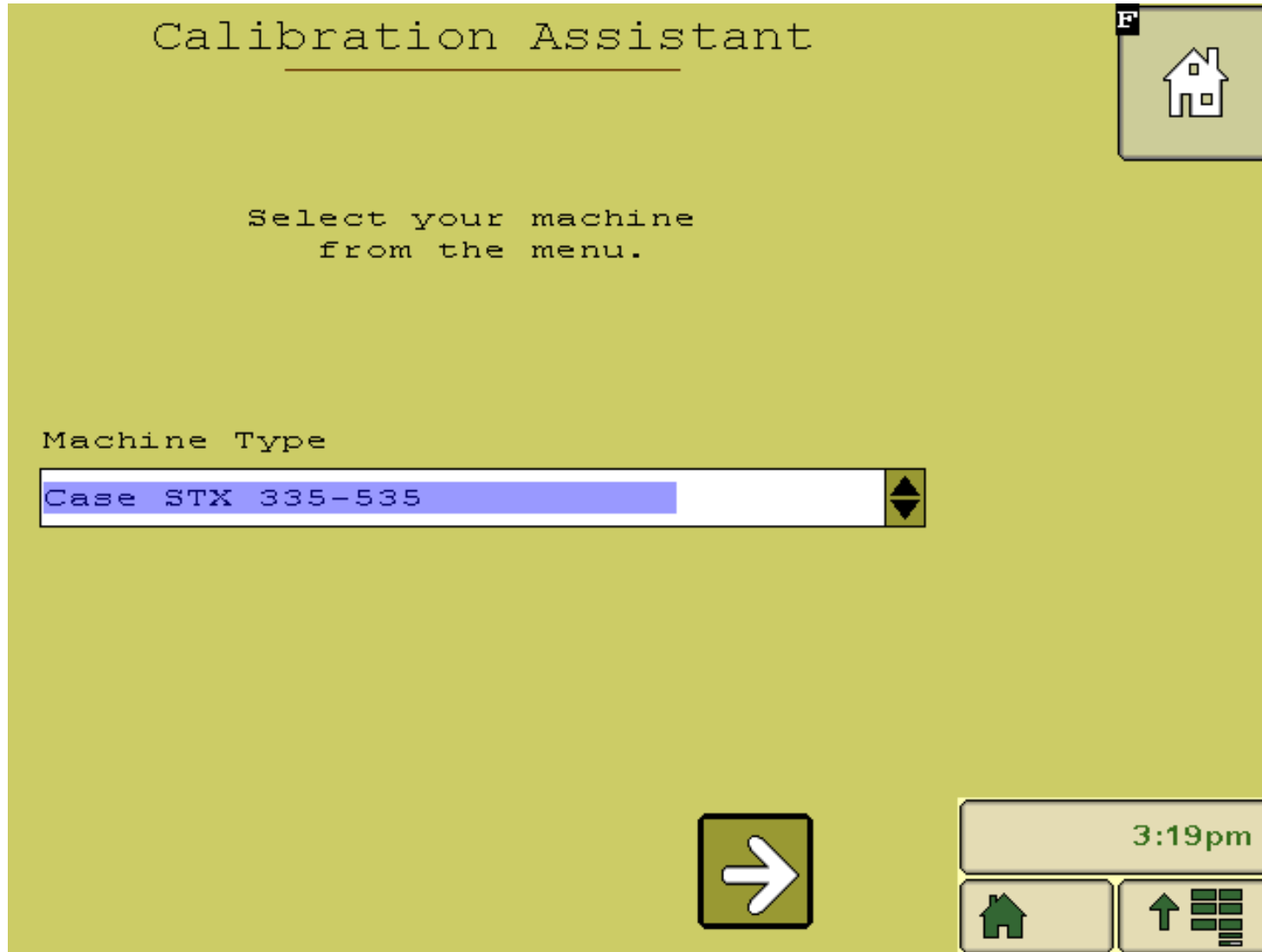
- Reset Controller to factory defaults  
This will erase all controller and user settings.
- Recalibrate hydraulic system
- Exit Calibration Assistant

UI Selection Home

# John Deere AutoTrac™ Controller - Raven



# John Deere AutoTrac™ Controller - Raven



UI Selection Home


# John Deere AutoTrac™ Controller - Raven

Calibration Assistant

Select 'Factory' if the hydraulic system was installed at the factory by the OEM or 'Field' if the hydraulic system was not installed at the factory by the OEM.

Hydraulic Installation

Field




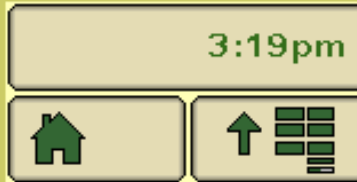

3:19pm

UI Selection Home

# John Deere AutoTrac™ Controller - Raven

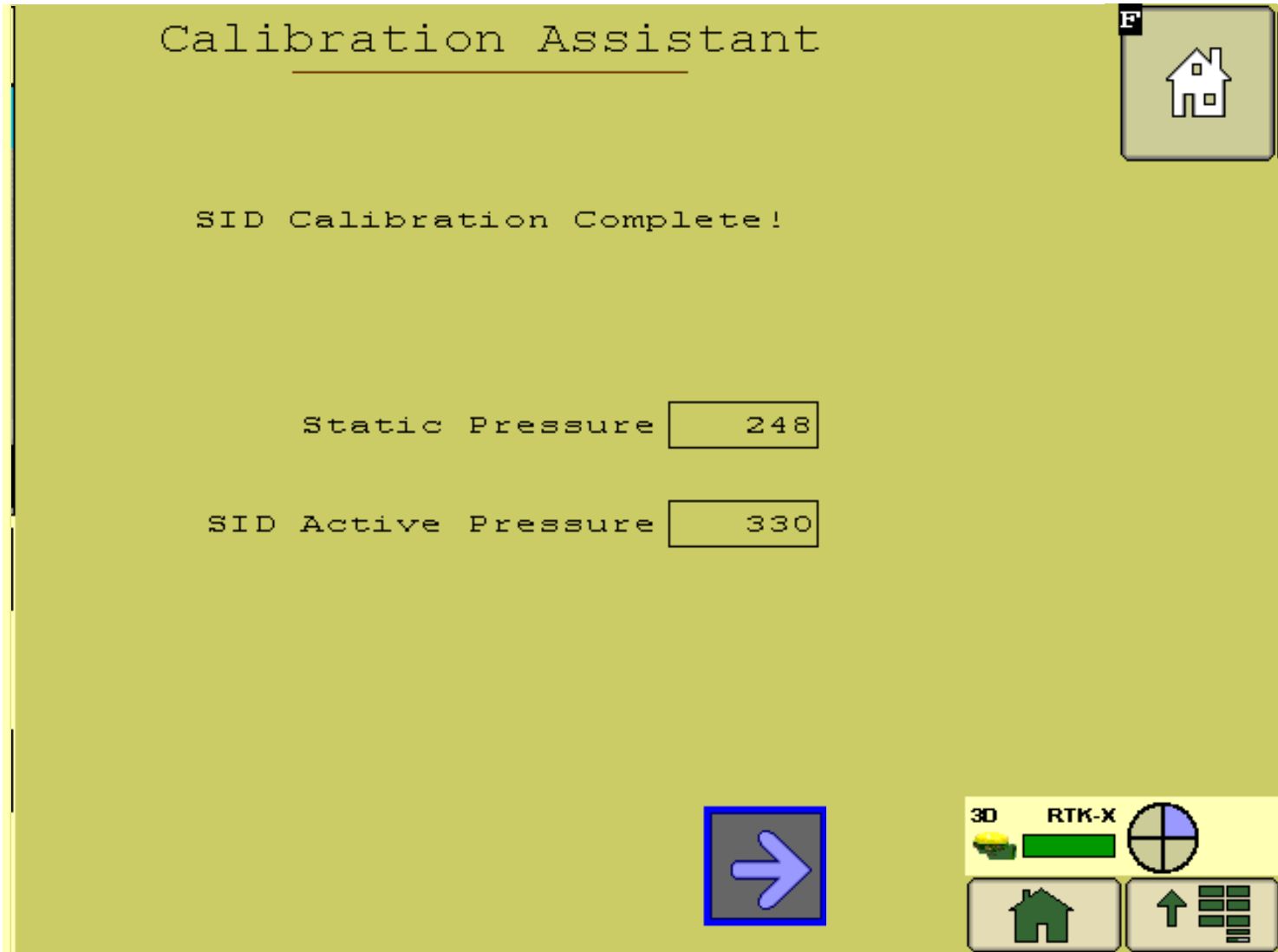
Calibration Assistant

The SID (steering input device) will now be calibrated. Please keep machine stationary and follow the onscreen directions during the test.



UI Selection Home

# John Deere AutoTrac™ Controller - Raven



UI Selection Home


# John Deere AutoTrac™ Controller - Raven

Calibration Assistant

WAS Calibration

Calibrate the wheel angle sensor (WAS) making sure to turn the wheels all the way to the left and right locks. The center value must be within the left and right values.



782      478      177



Current WAS 508

←

3:19pm



UI Selection Home


# John Deere AutoTrac™ Controller - Raven

Calibration Assistant

WAS Calibration

Calibrate the wheel angle sensor (WAS) making sure to turn the wheels all the way to the left and right locks. The center value must be within the left and right values.



782      478      177



Current WAS 488

←

3:19pm



UI Selection Home


# John Deere AutoTrac™ Controller - Raven

Calibration Assistant

WAS Calibration

Calibrate the wheel angle sensor (WAS) making sure to turn the wheels all the way to the left and right locks. The center value must be within the left and right values.



782      478      177



Current WAS 178


←      →

3:20pm



UI Selection Home

# John Deere AutoTrac™ Controller - Raven





## CAUTION


Front wheels will turn automatically.

To prevent injury, ensure there are no bystanders in the path of the vehicle.

Turn steering wheel or press the Stop button to cancel calibration.



3:20pm

 OK

UI  
Selection  
Home

# John Deere AutoTrac™ Controller - Raven

Calibration Assistant

Caution: Wheels will turn. Drive forward from 1-4 MPH and press resume switch to begin.

Speed  MPH

SID Status:  
Inactive

← →

3:20pm

Home Menu

UI Selection Home







# John Deere AutoTrac™ Controller - Raven

Calibration Assistant  
Autocalibration Status

Current Master State:  
Calculating right gain

Current Substate:  
Turning to Lock

Progress:



3:21pm






UI Selection Home

# John Deere AutoTrac™ Controller - Raven

Calibration Assistant

SID Movement Detected

The SID has detected movement of the steering wheel. If this was not intentional and the problem persists contact your dealer.



3:22pm



UI Selection Home

# John Deere AutoTrac™ Controller - Raven

Machine Type:  
Case STX 335-535

Hydraulic Installation:  
Factory

System State:  
Ready

Resume Switch Status:  
OFF

Master Switch Status:  
ON

Operator Status:  
Present

SID Status:  
Inactive

F CAL

G 

H 

3:22pm

UI Selection Home 

# John Deere AutoTrac™ Controller - Raven

## System Information

Hardware Part Number: PFP17332

Hardware Revision: -

Hardware Serial Number: 0000000123

Software Part Number: 0770171299

Software Version: 1.0.09

Bootloader Version: 3.01

Version Hours: 0000.0

Total Hours: 0000.1

Unswitched Voltage: 13.9

Switched Voltage: 13.6

Sensor Supply Voltage: 5.0

PCB Voltage: 4.9



UI  
Selection  
Home

3:17pm



# John Deere AutoTrac™ Controller - Raven



## CAUTION

Some Advanced Setup tests cause wheel movement.

To prevent injury, ensure there are no bystanders in the path of the vehicle.

At any time, press the master switch to stop wheel movement.



UI  
Selection  
Home

3:22pm



# John Deere AutoTrac™ Controller - Raven

Advanced Setup

Machine Type:  
Case STX 335-535

Hydraulic Installation:  
Factory






System State:  
Ready

Resume Switch Status:  
**OFF**


Master Switch Status:  
**ON**

Operator Status:  
**Present**



SID Status:  
**Active**

F   
G   
H   
I   
J 

3:22pm

F 

UI Selection Home

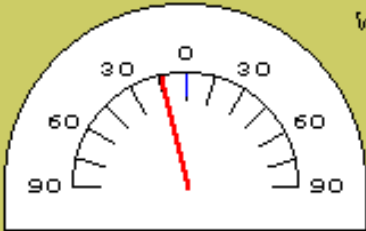
# John Deere AutoTrac™ Controller - Raven


Health Test


Please select the test  
you want to perform.

---

Wheel Angle



Target 

Actual 

---


Step Size

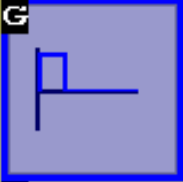
Delay Time

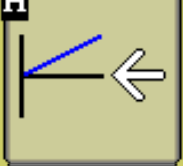
Rise Time

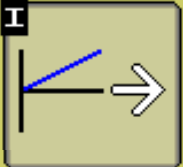
Settling Time


Overshoot


**F** 

**G** 

**H** 



**I** 

**J** 

**F** 

**UI Selection Home**

3:23pm

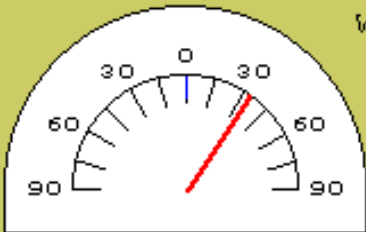
# John Deere AutoTrac™ Controller - Raven


Health Test


Please select the test  
you want to perform.

---

Wheel Angle



Target 

Actual 

---


Step Size

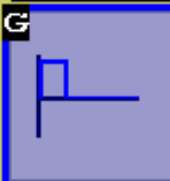
Delay Time

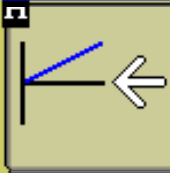
Rise Time

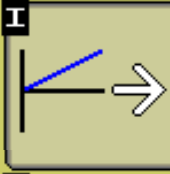
Settling Time


Overshoot


**F** 

**G** 



**H** 

**I** 

**J** 

**F** 

**3:23pm**

UI  
Selection  
Home

# John Deere AutoTrac™ Controller - Raven

Valve Drive Configuration

Left Min Drive	<input type="text" value="19.6"/>	Right Min Drive	<input type="text" value="27.7"/>
Left Max Drive	<input type="text" value="61.3"/>	Right Max Drive	<input type="text" value="67.6"/>
Left Test Drive	<input type="text" value="50.0"/>	Right Test Drive	<input type="text" value="50.0"/>

Valve Drive Type: Analog Voltage Signal

Actual Drive

**A** **F**

**B** **G**

**C** **H**

**J**




3:24pm

**F**

UI Selection Home

# John Deere AutoTrac™ Controller - Raven

WAS/SID Configuration


782	478	196
		

Current WAS



---

SID 1 Pressure

SID 2 Pressure

Disengage Setting 

3:25pm

F 

G 

H 

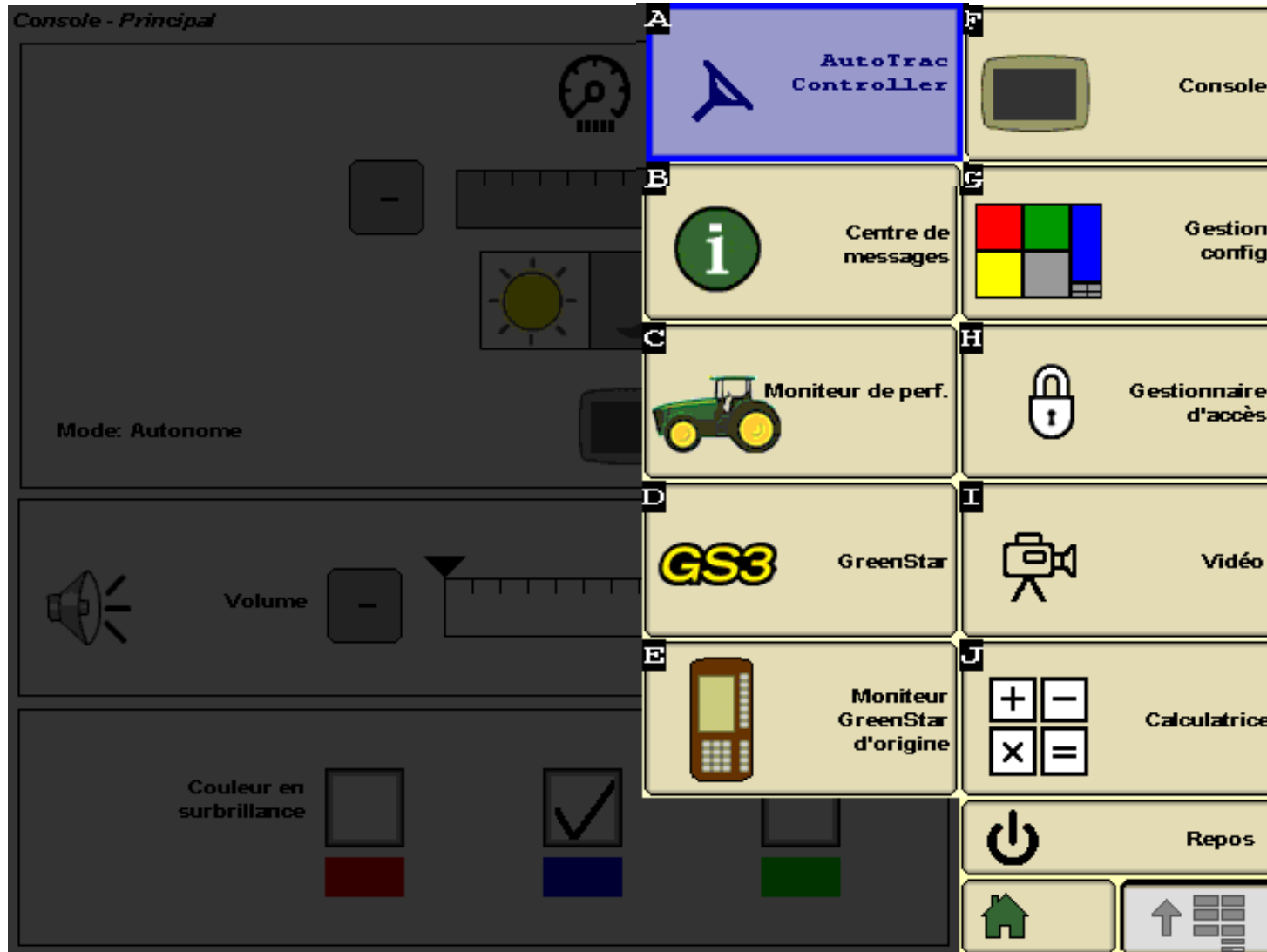


UI  
Selection  
Home

# John Deere AutoTrac™ Controller - Reichhardt

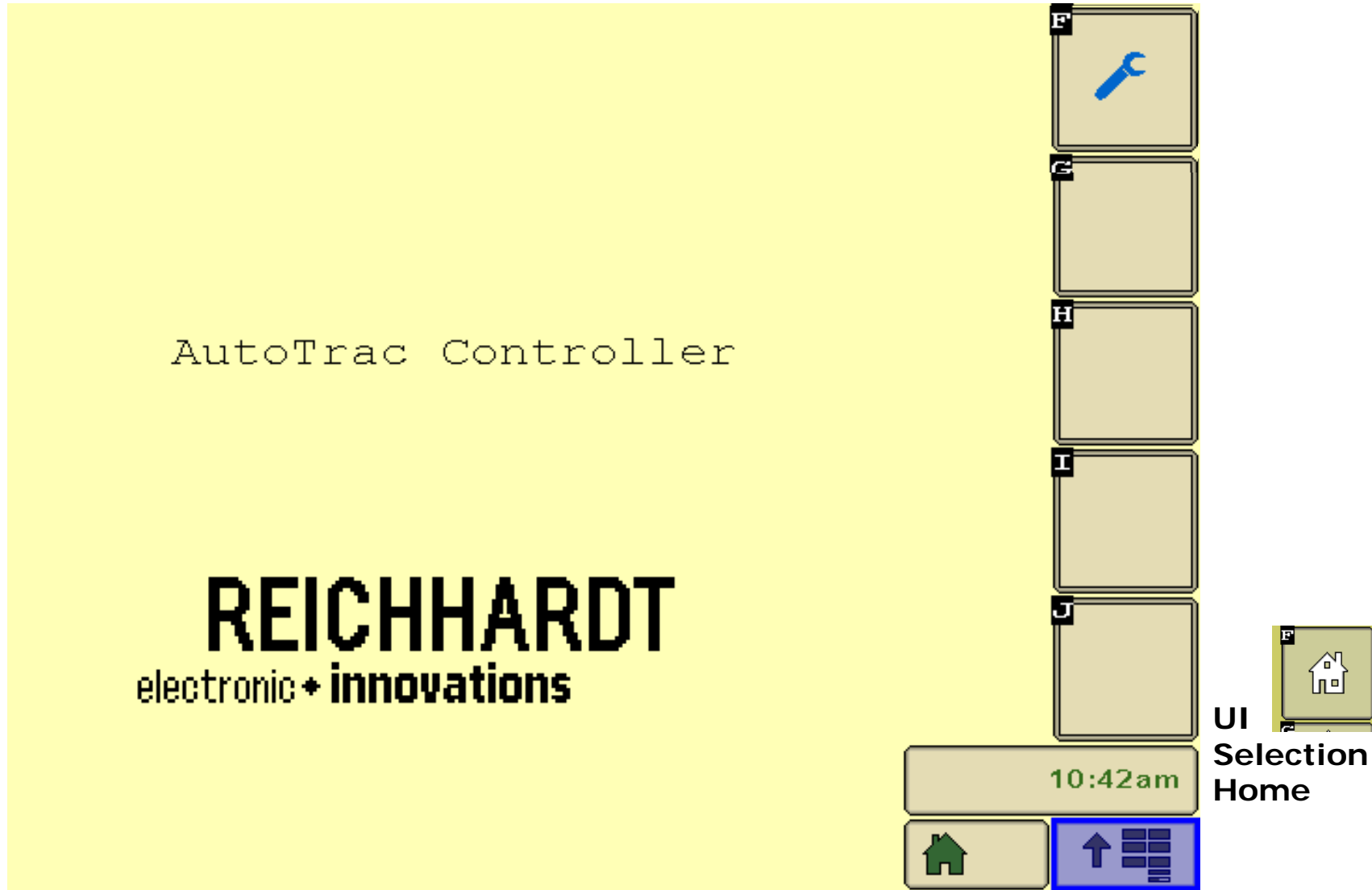


# John Deere AutoTrac™ Controller - Reichhardt





UI Selection Home

# John Deere AutoTrac™ Controller - Reichhardt

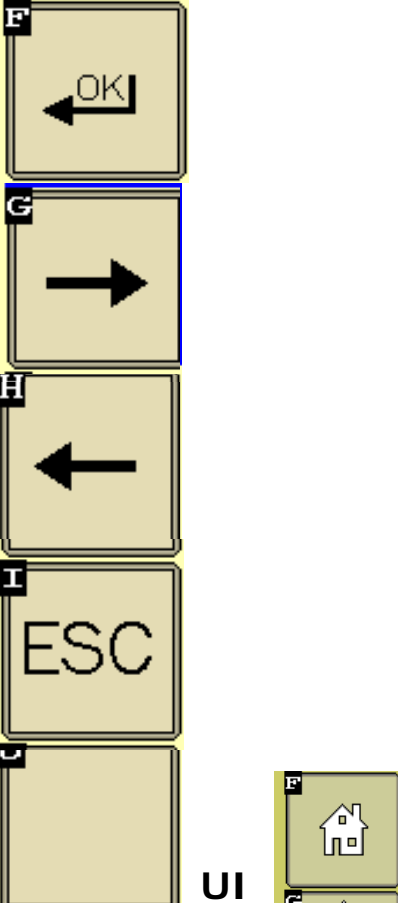


# John Deere AutoTrac™ Controller - Reichhardt


Main Menu



Diagnosis






1:55pm



UI Selection Home

# John Deere AutoTrac™ Controller - Reichhardt

Diagnosis

	 DIAG	
---	--	--

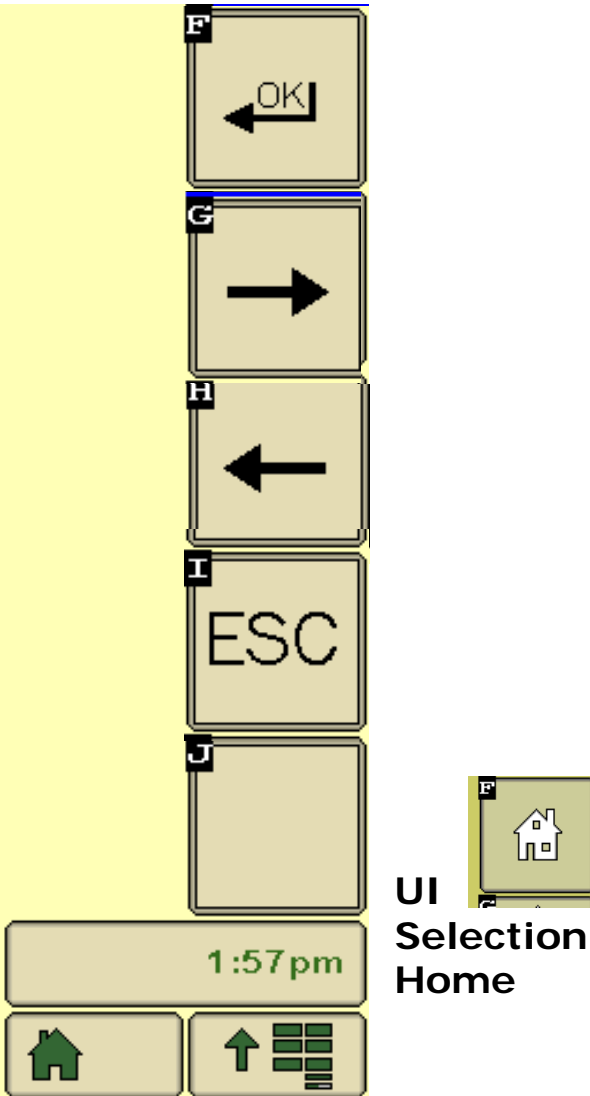
S1: 0

OFF

Operator Presence Switch




1:57 pm

UI Selection Home



# John Deere AutoTrac™ Controller - Reichhardt

Diagnosis


	 DIAG	 Auto
---	--	---

S1: 0  
S2: 1  
OFF

Resume Switch




1:57 pm

UI Selection Home



# John Deere AutoTrac™ Controller - Reichhardt

Diagnosis

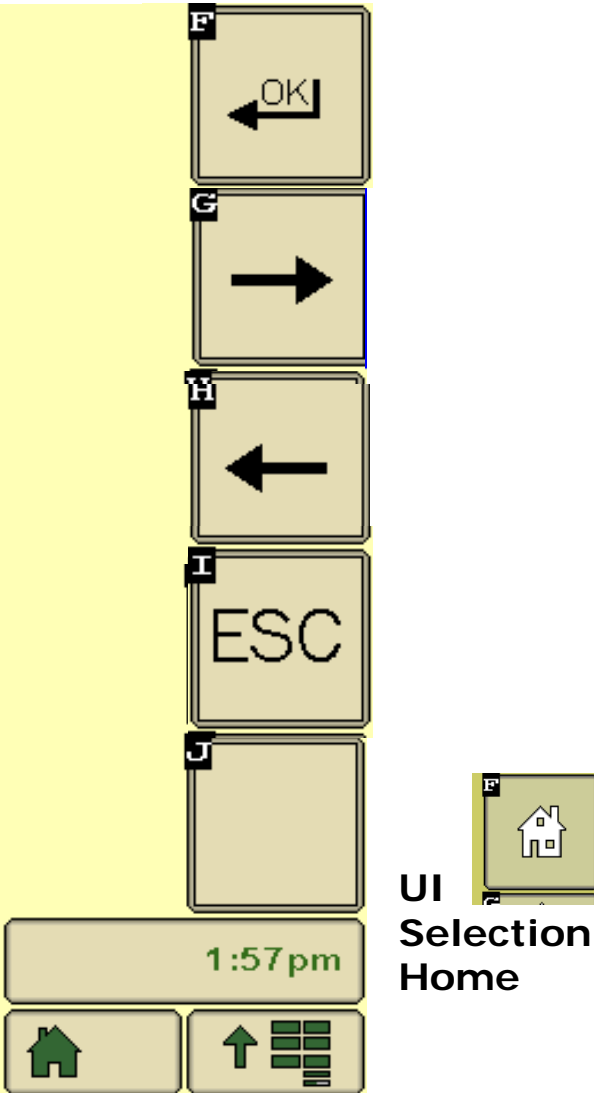
		
---	---	--

S1: 485

Wheel Angle Sensor




1:57 pm

UI Selection Home



# John Deere AutoTrac™ Controller - Reichhardt

Diagnosis

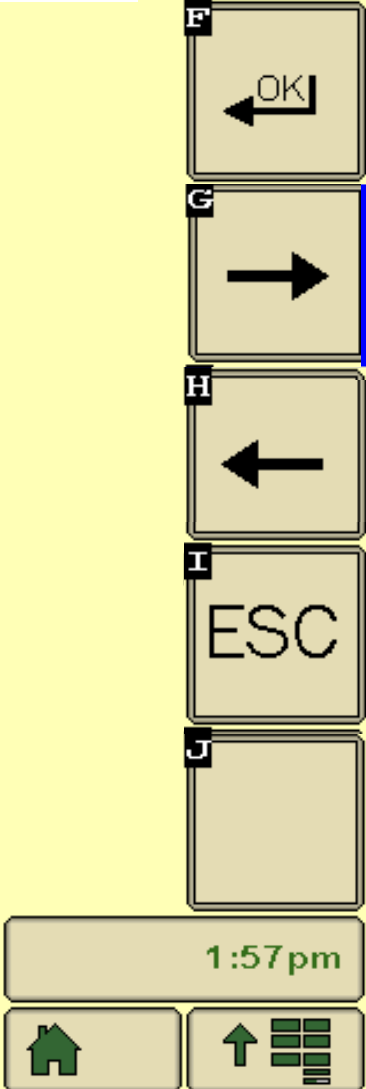
	 DIAG	 P
---	--	--

S1: 0

Pressure Sensor

1:57 pm




UI Selection Home



The image shows a vertical stack of navigation buttons on the right side of the screen. From top to bottom: a button labeled 'F' with a left-pointing arrow and 'OK' text; a button labeled 'G' with a right-pointing arrow; a button labeled 'H' with a left-pointing arrow; a button labeled 'I' with the text 'ESC'; a button labeled 'J' which is currently empty; a button with a green house icon; and a button with a green upward arrow and a grid of icons. A separate 'Home' button with a house icon is also shown to the right of the 'J' button.

# John Deere AutoTrac™ Controller - Reichhardt

Diagnosis

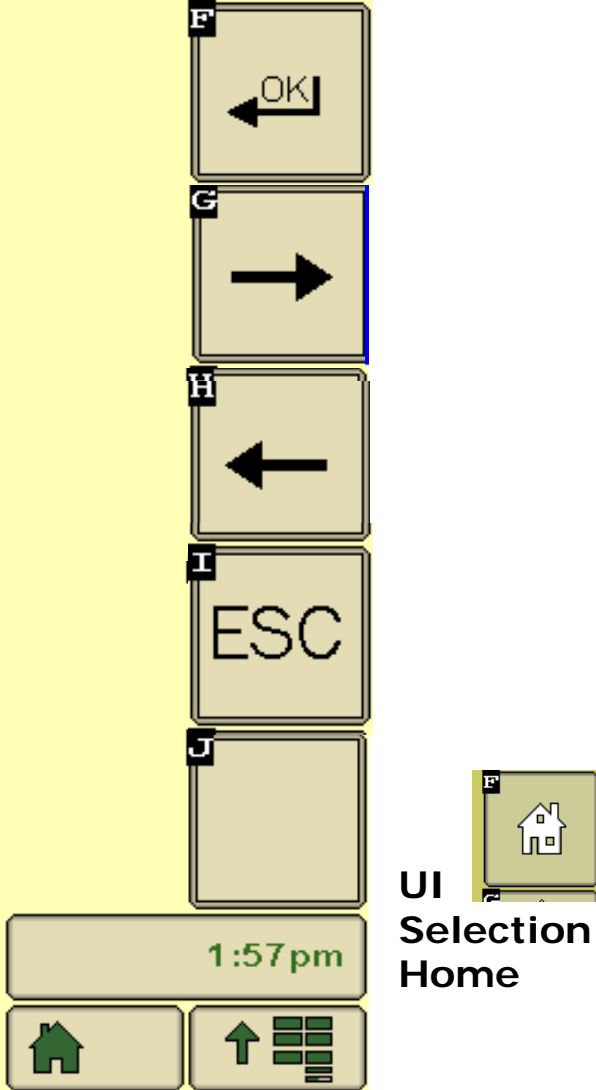
		
---	---	--

0.00 mph

GPS Speed

1:57 pm




UI Selection Home



The image shows a vertical stack of navigation buttons on the right side of the screen. From top to bottom: a button labeled 'F' with an 'OK' icon and a left-pointing arrow; a button labeled 'G' with a right-pointing arrow; a button labeled 'H' with a left-pointing arrow; a button labeled 'I' with the text 'ESC'; a button labeled 'J' which is currently empty; a button with a house icon (Home); and a button with an upward-pointing arrow and a grid icon (Menu). Below the 'J' button is a rectangular display showing the time '1:57 pm'. To the right of the 'J' button is a separate button labeled 'F' with a house icon, with the text 'UI Selection Home' next to it.

# John Deere AutoTrac™ Controller - Reichhardt

Diagnosis


	 DIAG	
---	--	--

Code:  
1.100.00.00.1

Vehicle Code


1:57 pm

UI Selection Home






# John Deere AutoTrac™ Controller - Reichhardt

Main Menu

		
---	--	--









  

 DIAG		
--	---	--

Information

1:56pm

UI Selection Home



# John Deere AutoTrac™ Controller - Reichhardt

INFO - iBox

SW-Ver:00.36

Ser-Nr:10.088540.1001

**REICHHARDT**  
electronic + innovations

1:58pm

UI Selection Home

The interface features a vertical toolbar on the right side with five buttons labeled F, G, H, I, and J. Button G contains a right-pointing arrow, and button H contains a left-pointing arrow. Button I contains the text 'ESC'. Below the toolbar is a wide button showing the time '1:58pm'. At the bottom are two buttons: a home icon and a grid icon with an upward arrow.

# John Deere AutoTrac™ Controller - Reichhardt

The screenshot displays the main menu of the John Deere AutoTrac controller. The background is a light yellow color. In the center, the text reads "SERVICE PARTNER" and "Reichhardt USA". Below this, the "REICHHARDT" logo is prominently displayed in a large, bold, black font, with the tagline "electronic + innovations" underneath it. On the right side of the screen, there is a vertical stack of five touch-sensitive buttons labeled F, G, H, I, and J. The G button, which contains a right-pointing arrow, is currently highlighted with a blue border. Below this stack is a button labeled "ESC". At the bottom of the screen, there is a digital clock showing "1:58pm" and two additional navigation buttons: a home icon and a menu icon. To the right of the main screen, a separate inset shows a button with a house icon, labeled "UI Selection Home".

SERVICE PARTNER  
Reichhardt USA

**REICHHARDT**  
electronic + innovations

F  
G  
H  
I  
J

ESC

1:58pm

UI Selection Home

# John Deere AutoTrac™ Controller - Reichhardt

The screenshot displays the user interface of the John Deere AutoTrac™ Controller. The main display area is a yellow terminal window with the following text:

```
INFO - Terminal  
SW-Ver:UATi034
```


Below the terminal, the **REICHHARDT** logo is shown in a large, bold, black font, with the tagline **electronic + innovations** underneath it.

On the right side of the screen, there is a vertical toolbar with five buttons labeled F, G, H, I, and J. The G button, which contains a right-pointing arrow, is highlighted with a blue border. Below this toolbar is a digital clock showing 1:59pm. At the bottom of the screen, there are two buttons: a home button with a house icon and a menu button with an upward arrow and a grid icon.




To the right of the main screen, there is a separate UI element labeled "UI Selection Home" with a house icon.

# John Deere AutoTrac™ Controller - Reichhardt

Main Menu


		
---	--	--



		
---	---	--

Vehicle Settings

UI Selection Home




1:56pm





Navigation buttons: F (OK), G (Right Arrow), H (Left Arrow), I (ESC), J (Blank)

# John Deere AutoTrac™ Controller - Reichhardt

Main Menu

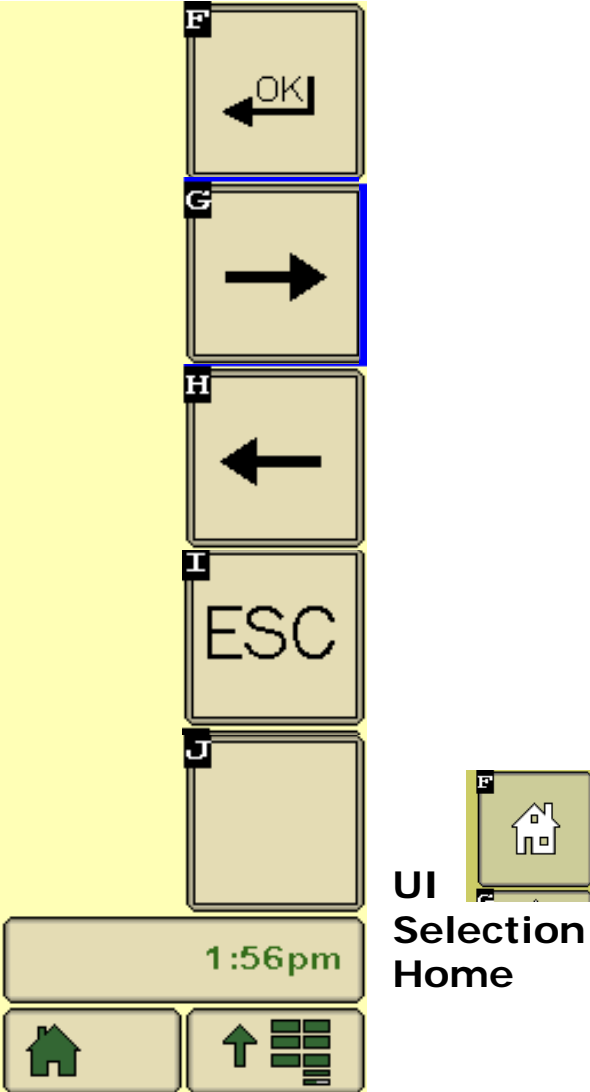
		
---	--	--

		Health Test
---	---	-------------

Lock System




UI Selection Home



The image shows a simulated touch-screen interface for a John Deere AutoTrac controller. The main menu area has a yellow background and contains two rows of buttons. The first row has three buttons: a wrench icon, an empty button, and another empty button. The second row has three buttons: a tractor icon, a lock icon, and a button labeled 'Health Test'. Below this is the 'Lock System' section. To the right of the main menu is a vertical column of navigation buttons labeled F through J. Button F is 'OK' with a left arrow. Button G is a right arrow. Button H is a left arrow. Button I is 'ESC'. Button J is empty. Below this column is a 'Home' button with a house icon, a digital clock showing '1:56pm', a 'Home' button with a house icon, and an 'Up' button with a menu icon. The text 'UI Selection Home' is positioned to the right of the bottom buttons.

# John Deere AutoTrac™ Controller - Reichhardt


Main Menu

		
	Health Test	

Health Test

1:56pm

UI Selection Home



The image shows a simulated touch-screen interface for a John Deere AutoTrac controller. The main menu is displayed on a yellow background. It features two rows of icons: a wrench, a blank space, and another blank space; and a lock, the text 'Health Test', and a 'Setup' icon with a blue arrow pointing to it. Below the main menu is a 'Health Test' section. On the right side, there is a vertical stack of function keys labeled F through J, including 'OK', right arrow, left arrow, and 'ESC'. At the bottom right, there is a 'UI Selection Home' button with a house icon, a digital clock showing '1:56pm', and two more buttons: a house icon and a grid icon with an upward arrow.

# John Deere AutoTrac™ Controller - Reichhardt

**CAUTION**

Front wheels will turn automatically.

To prevent injury, ensure there are no bystanders in the path of the vehicle.

Press the ESC Button to cancel calibration.

OK

ESC

2:00pm


Home

UI Selection Home

The image shows a yellow-bordered screen with a black warning triangle icon and the word "CAUTION" in bold. Below this, three lines of text provide instructions: "Front wheels will turn automatically.", "To prevent injury, ensure there are no bystanders in the path of the vehicle.", and "Press the ESC Button to cancel calibration." To the right of the screen is a vertical stack of five buttons labeled F, G, H, I, and J. The top button (F) has an "OK" label and a left-pointing arrow. The fourth button (I) has an "ESC" label. Below the buttons is a digital display showing "2:00pm" in green. At the bottom are two more buttons: a home icon and a menu icon (upward arrow and grid). To the right of the screen, a separate button with a home icon is labeled "UI Selection Home".

# John Deere AutoTrac™ Controller - Reichhardt

Health Test

		
---	--	--

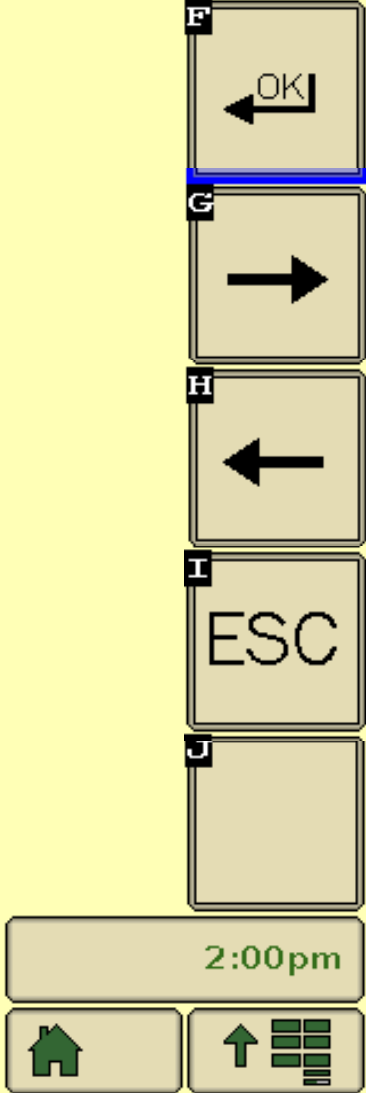
  

Closed Loop	<b>Max Flow</b>	Freq Resp
-------------	-----------------	-----------

Max Flow Test


2:00pm


UI Selection Home





# John Deere AutoTrac™ Controller - Reichhardt

Max Flow Test

		Max Flow
---	--	-------------

0.0 ° 

0.0 mph 

2000 RPM 

0.0 s

OK

ESC


2:00pm

Home

UI Selection Home

# John Deere AutoTrac™ Controller - Reichhardt

Health Test

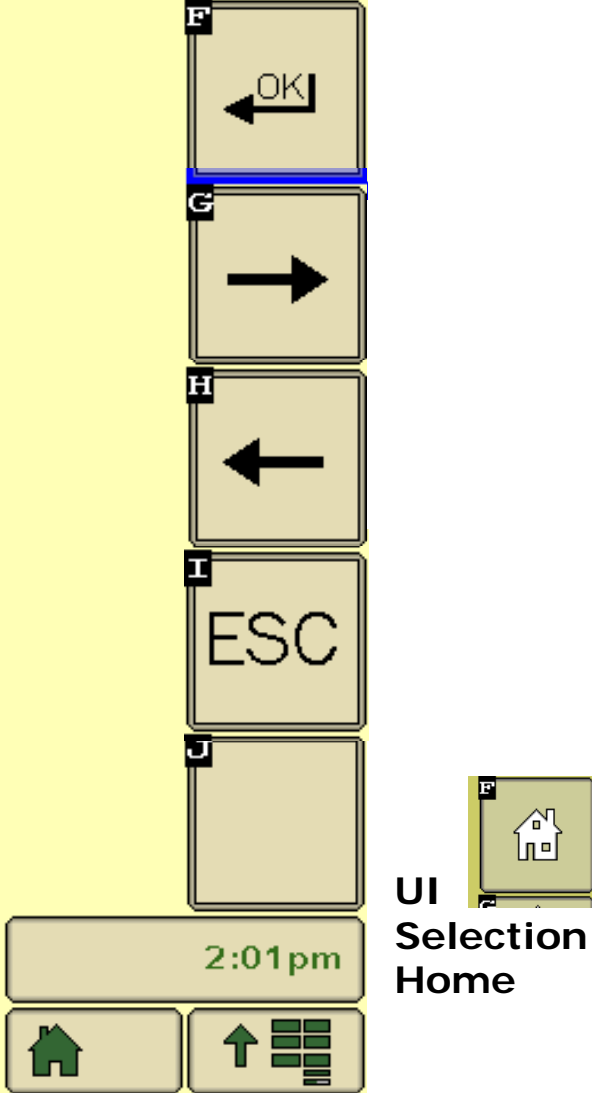
		
---	--	--

Max Flow	<b>Freq Resp</b>	Curv Test
----------	------------------	-----------

Frequency Test


2:01pm


UI Selection Home




# John Deere AutoTrac™ Controller - Reichhardt

Frequency Test

		Freq Resp
---	--	--------------

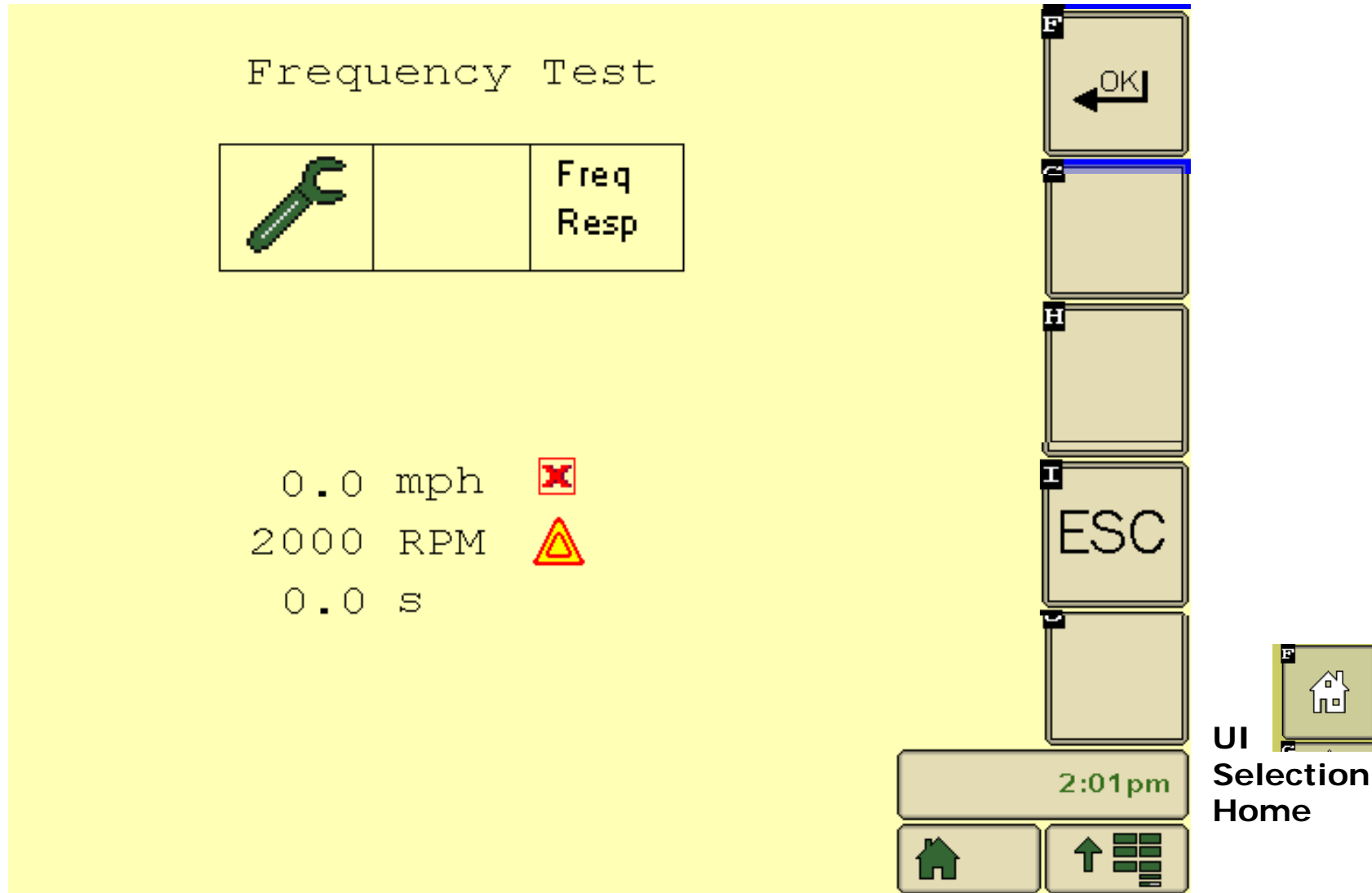
0.0 mph 

2000 RPM 

0.0 s


2:01 pm

UI Selection Home



# John Deere AutoTrac™ Controller - Reichhardt

Health Test




		
---	--	--

Freq Resp	<b>Curv Test</b>	Closed Loop
--------------	----------------------	----------------

Curvature Test


2:01pm

UI Selection Home



# John Deere AutoTrac™ Controller - Reichhardt


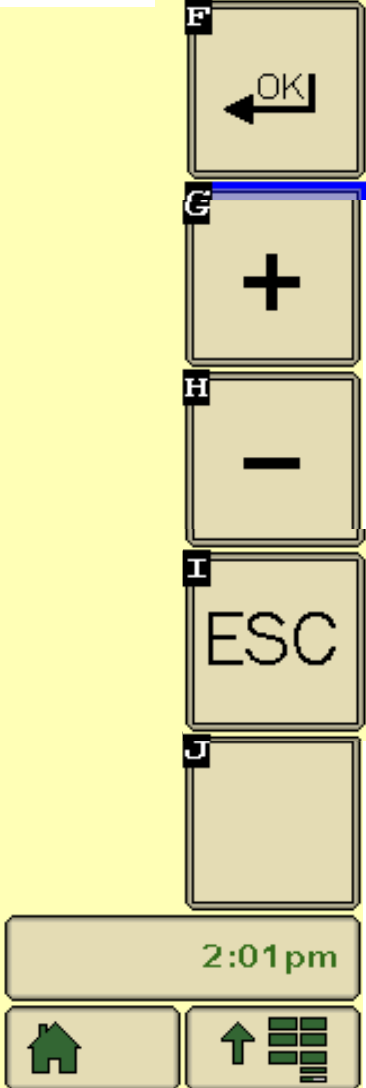
Curvature Test

		Curv Test
---	--	--------------

Curvature	Radius
0.00 1/km	0.0 m
0.00 1/km	0.0 m
Error	
0.00 1/km	0.0 m
100.00 %	0.0 mph


2:01pm

UI Selection Home



# John Deere AutoTrac™ Controller - Reichhardt

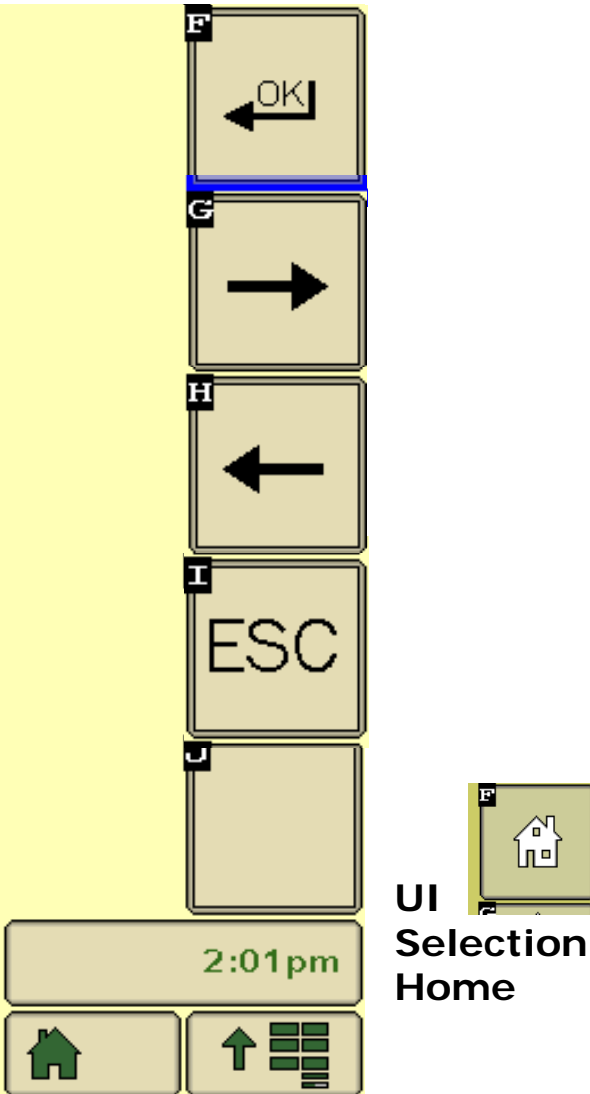
Health Test

		
---	--	--

Curv Test	<b>Closed Loop</b>	Max Flow
--------------	------------------------	-------------

Closed Loop Test


UI Selection Home





The image shows a control panel with several buttons. A vertical column of buttons includes 'F' with an 'OK' button, 'G' with a right arrow, 'H' with a left arrow, 'I' with 'ESC', and 'J' with a home icon. Below these is a horizontal bar showing the time '2:01pm'. At the bottom are two more buttons: a home icon and a menu icon (up arrow with a grid).


# John Deere AutoTrac™ Controller - Reichhardt

Closed Loop Test

		Closed Loop
---	--	-------------

0.0 ° 

0.0 mph 

2000 RPM 

0.0 s


**F** Start

**G**



**H**

**I** ESC

**J**

**F** 


2:01pm



UI Selection Home

# John Deere AutoTrac™ Controller - Reichhardt

Main Menu


		
---	--	--



Health Test		
-------------	---	--

Setup

UI Selection Home





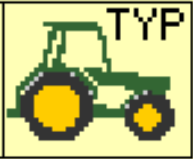
1:56pm



Navigation buttons: F (OK), G (Right Arrow), H (Left Arrow), I (ESC), J (Home)

# John Deere AutoTrac™ Controller - Reichhardt

Vehicle Code

Code:  
11000000


Setup

1. Press OK
2. Change vehicle settings
3. Press and hold OK

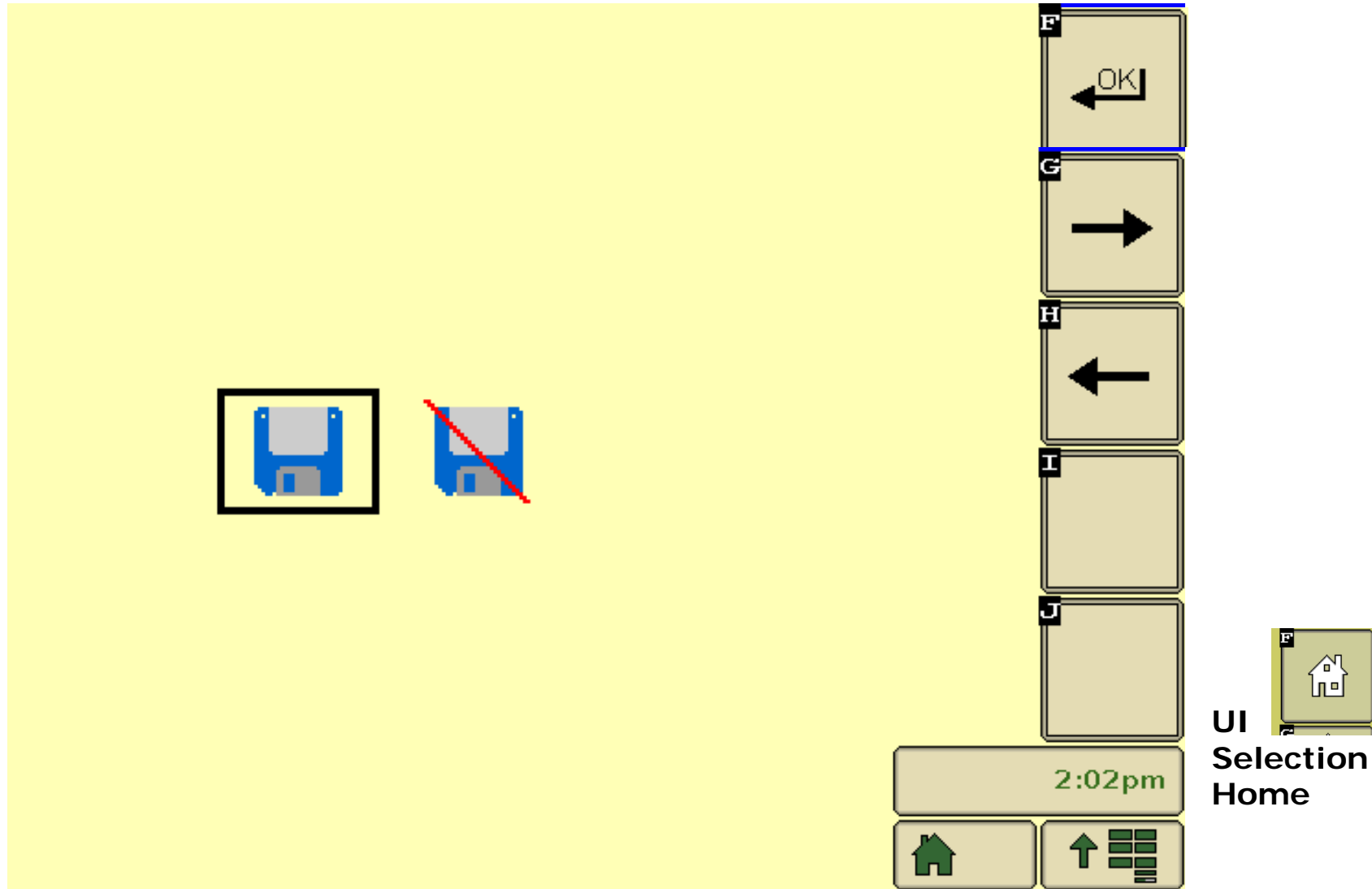
For further information see Operators Manual

2:02pm

UI Selection Home



# John Deere AutoTrac™ Controller - Reichhardt



# John Deere AutoTrac™ Controller - Reichhardt

Wheelbase



9.84 Ft

Setup

1. Enter the wheelbase of your tractor using the +/- buttons
2. Hold OK to save.

2:02pm

UI Selection Home



# John Deere AutoTrac™ Controller - Reichhardt

**CAUTION**

Front wheels will turn automatically.

To prevent injury, ensure there are no bystanders in the path of the vehicle.

Press the ESC Button to cancel calibration.

Vertical button strip (top to bottom):


- F: OK (with left arrow)
- G: (empty)
- H: (empty)
- I: ESC
- J: (empty)


Bottom bar:

- 2:03pm
- Home icon
- Up arrow icon with a 3x3 grid below it

# John Deere AutoTrac™ Controller - Reichhardt

Current Controller



 30 s

Setup  
Press and hold Start to begin.

**F** Start



**G**


**H**

**I** ESC

**J** Next →

2:03pm

**F**  UI Selection Home

# John Deere AutoTrac™ Controller - Reichhardt

Valve



I = 5 mA

I = 950 mA

Setup

1. Press Start.
2. Adjust this to the lowest setting that gives smooth wheel motion using the +/- Buttons.
3. Hold OK to save.

Start

+

-

ESC

Next

2:04pm


Home

UI Selection Home



# John Deere AutoTrac™ Controller - Reichhardt

Wheel Angle Sensor



AD: 415  
AD: 120

Setup

Turn wheels to the left stop and hold OK to save.

Start

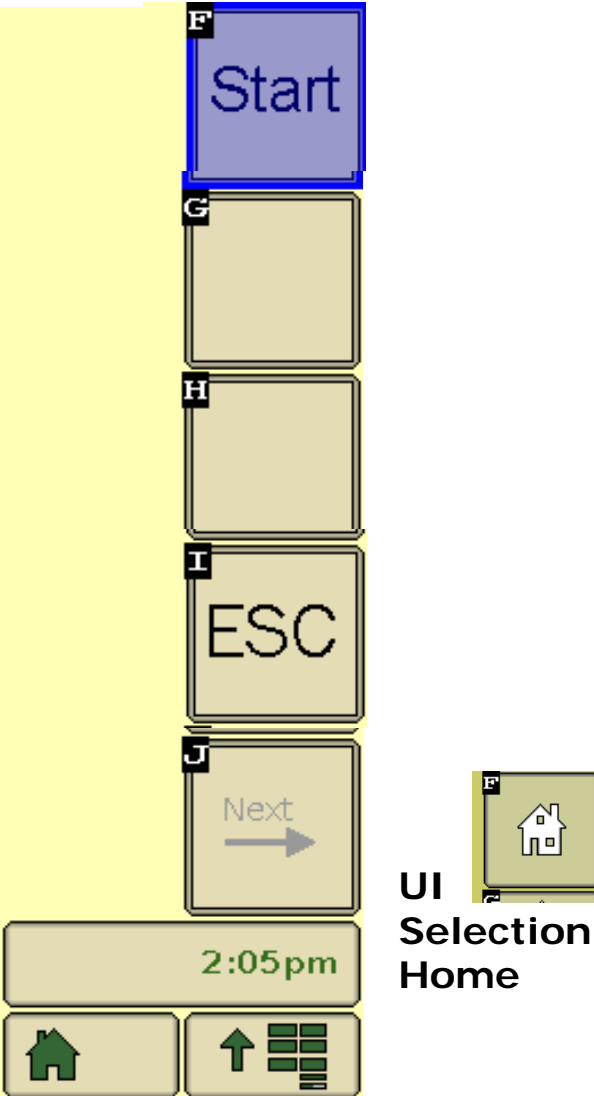
ESC

Next →

2:05pm


Home

UI Selection Home



# John Deere AutoTrac™ Controller - Reichhardt

Wheel Angle Sensor



AD: 415  
AD: 400

Setup

Align wheels straight and hold OK to save.

Start

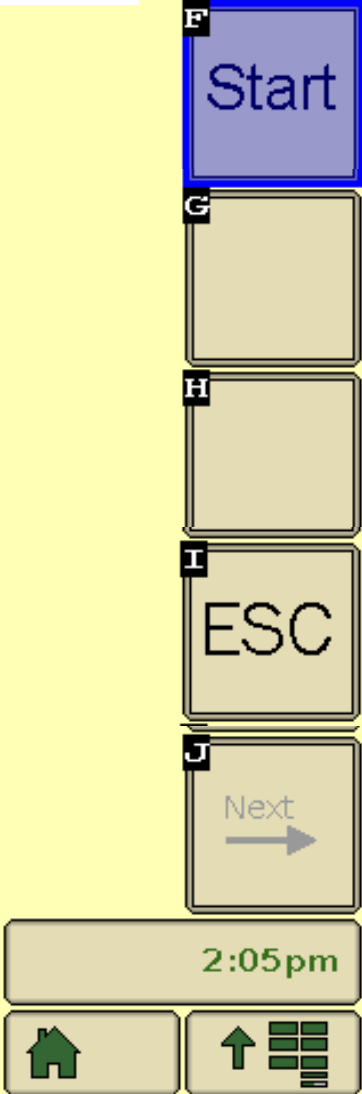
ESC

Next

2:05pm


Home

UI Selection Home



# John Deere AutoTrac™ Controller - Reichhardt

Wheel Angle Sensor



AD: 415  
AD: 750

Setup

Turn wheels to the right stop and hold OK to save.

Start

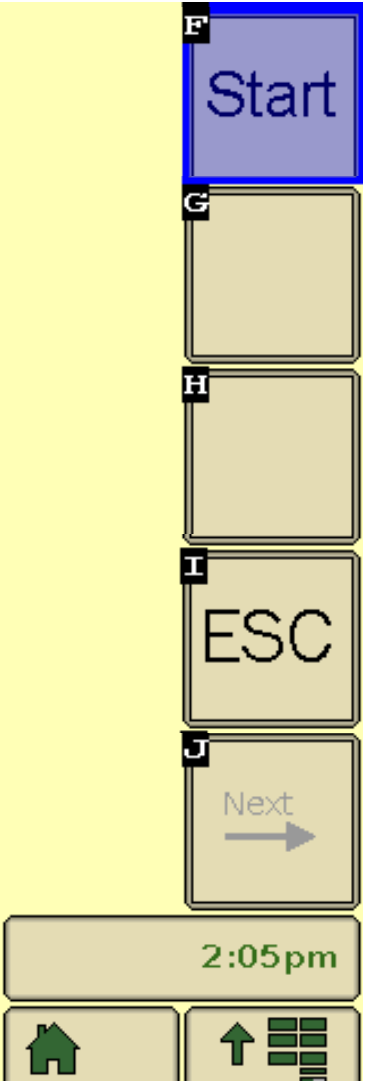
ESC

Next →

2:05pm


Home

UI Selection Home



# John Deere AutoTrac™ Controller - Reichhardt

Pressure Sensor



N AD: 0  
AD: 180

Standby Pressure

1. Make sure engine is running.
2. Don't move the steering wheel.
3. Hold OK to save.

Start

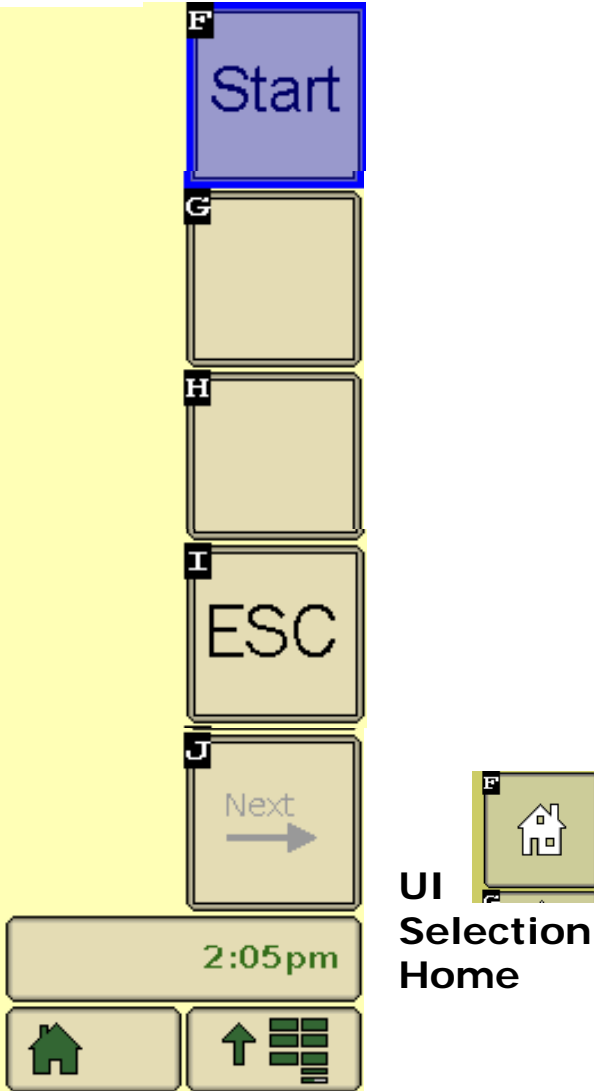
ESC

Next →

2:05pm

Home

UI Selection Home



# John Deere AutoTrac™ Controller - Reichhardt

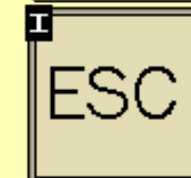
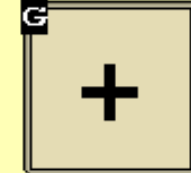
Turning Diameter Left



--> 32.81 Ft

Turning Diameter Left

1. Measure and enter the tractor's minimum left turning diameter using the +/- Buttons.
2. Hold OK to save.



UI  
Selection  
Home

# John Deere AutoTrac™ Controller - Reichhardt

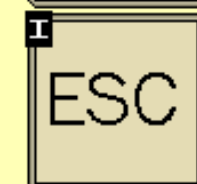
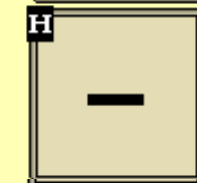
Turning Diameter Right



--> 32.81 Ft

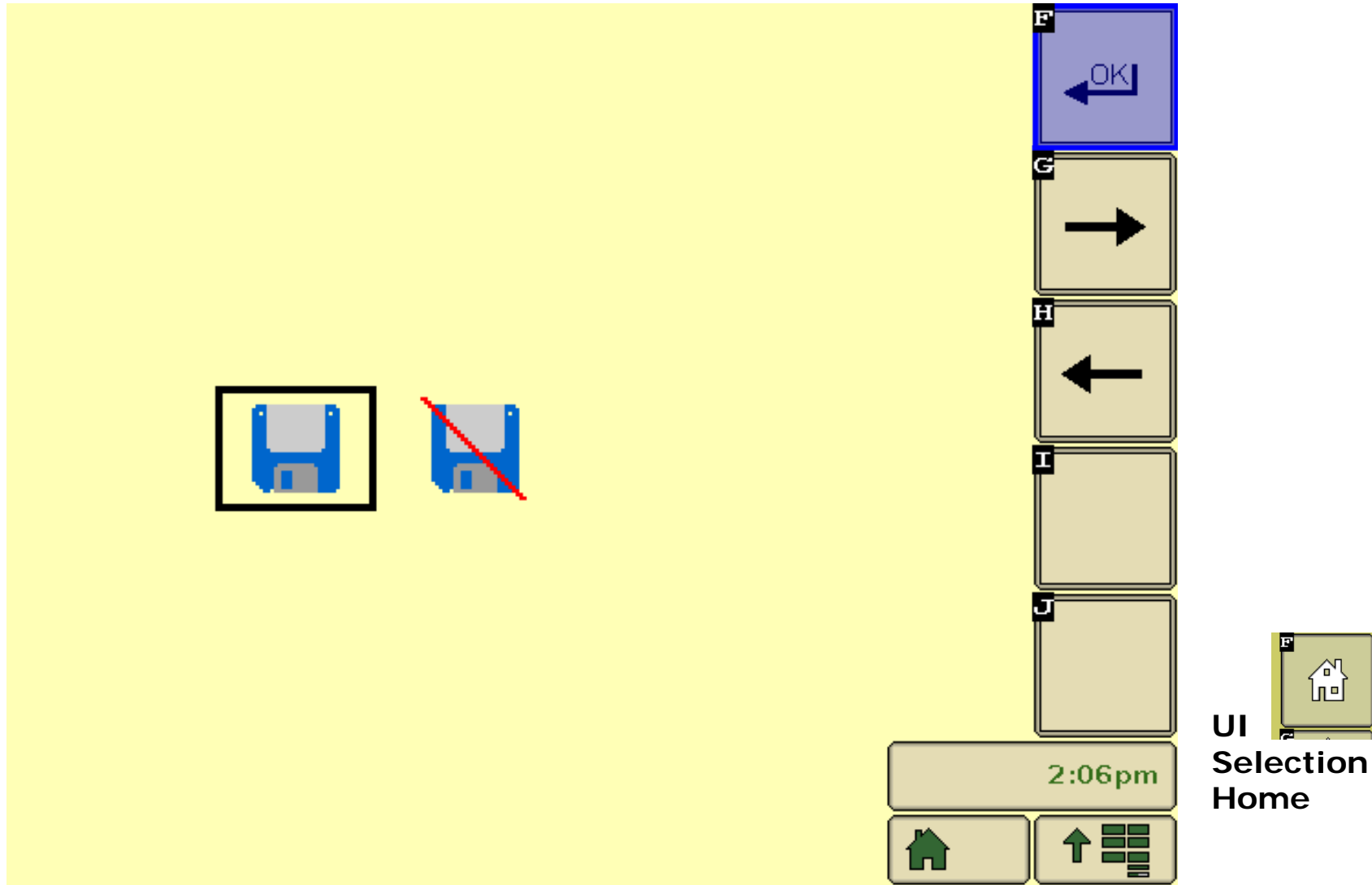
Turning Diameter Right

1. Measure and enter the tractor's minimum right turning diameter using the +/- Buttons.
2. Hold OK to save.



UI  
Selection  
Home

# John Deere AutoTrac™ Controller - Reichhardt





**JOHN DEERE**