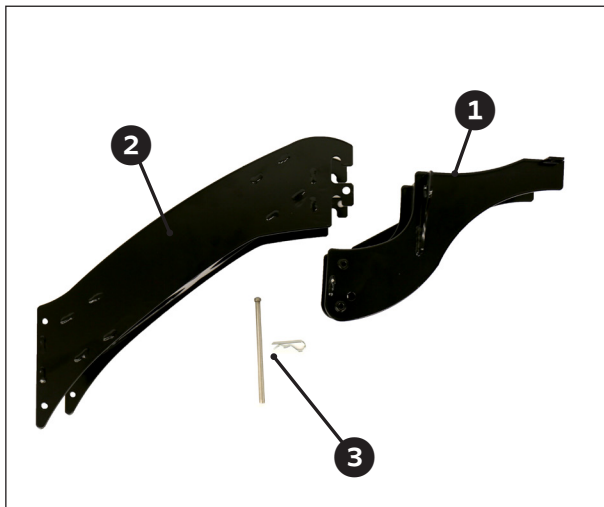


# INSTALLATION INSTRUCTIONS

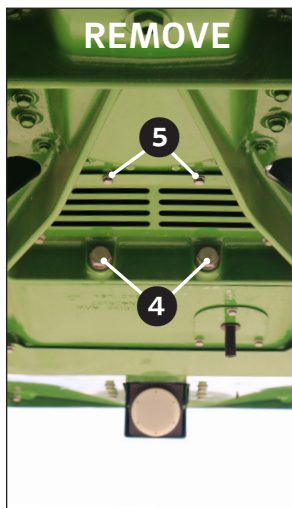
## ALL JOHN DEERE SPRAYER SYSTEMS



### STEP 1 | ASSEMBLE MATING BRACKET & DROP EXTENSION

Assemble the mating bracket **1** and the drop extension **2** and secure using the supplied 3/8" clevis pin and hairpin clip **3**.

**NOTE:** With tight tolerances and powder coating between the mating bracket and the drop extension, a rubber mallet may be needed to tap the pieces together.



### STEP 2 | INSTALL MATING BRACKET

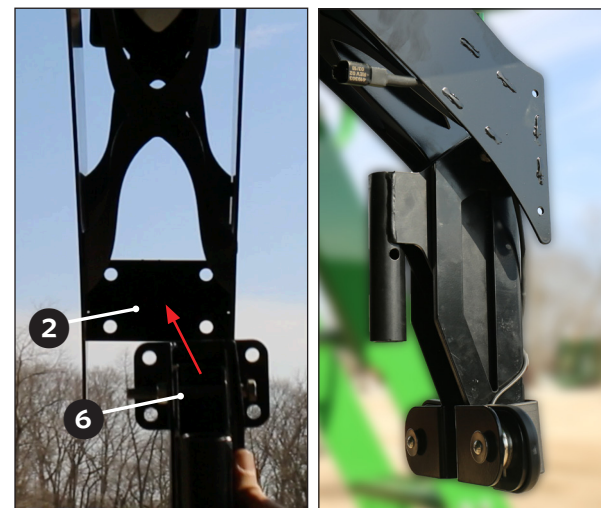
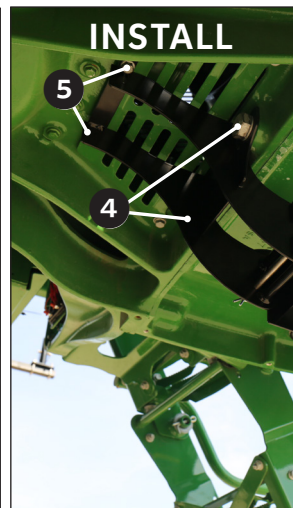
From the underside of the nose of the sprayer, use a 30mm socket to remove the two front bolts **4** and a 13mm socket to remove the two rear bolts **5**.

**NOTE:** All four bolts will be reused - do not discard.

Place front bolts **4** through the holes in the mating bracket and hand thread in place on the sprayer.

Hand thread the rear bolts **5** through the mating bracket and into the machine.

Tighten the rear bolts first followed by the front bolts.



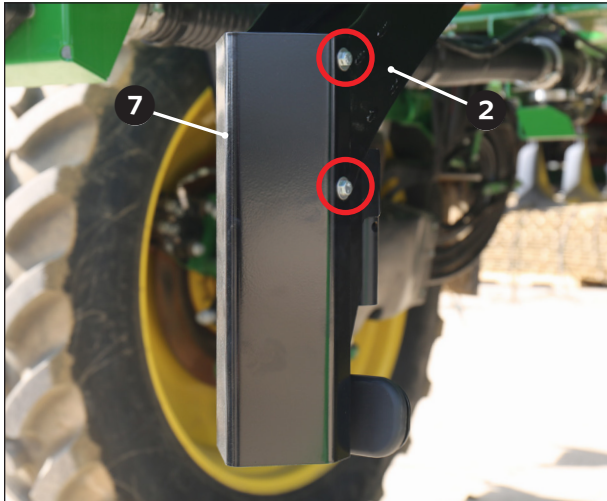
### STEP 3 | MOUNT STEERING BREAKAWAY

Mount steering breakaway **6** to the backside of the drop extension **2** using the 5/16" hardware supplied in hardware kit 490294.

**NOTE:** Orient the breakaway in such a way that the riser breaks away in a rearward motion rather than a forward motion.

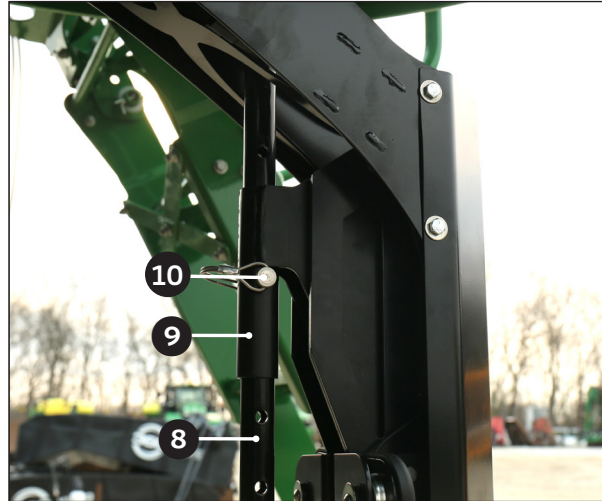
# INSTALLATION INSTRUCTIONS

## ALL JOHN DEERE SPRAYER SYSTEMS



### STEP 4 | MOUNT SHIELD

Using the supplied 1/4" hardware provided in hardware kit 490294, mount the front shield **7** to the drop extension **2** at the hole above and below the breakaway on each side of the shield.

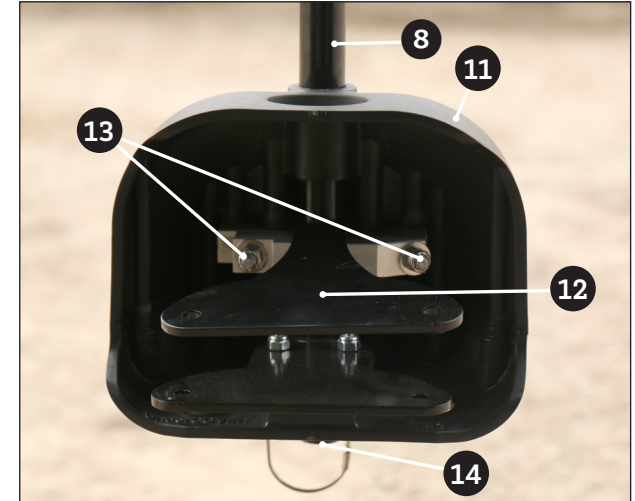


### STEP 5 | INSTALL RISER

Starting from the bottom, insert the 44" riser **8** into the breakaway sleeve **9**.

**NOTE: In order to provide additional clearance when inserting the riser, it may be helpful to release the breakaway. Use caution when manually pulling apart the breakaway as the magnets are extremely strong.**

Secure at the desired height using the supplied 3/8" pin with wire lock **10**.



### STEP 6 | INSTALL SENSOR GUARD

**NOTE: A 360 UNDERCOVER snout is used as the sensor guard.**

Begin to slide the UNDERCOVER snout **11** onto the 44" riser **8** starting from the bottom.

Before the riser goes into the aluminum clamp in the undercover snout, slide the upper sensor bracket **12** on the riser.

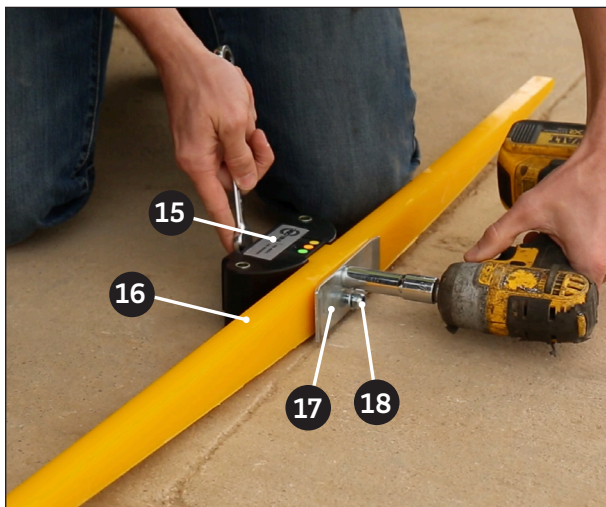
Continue to slide the UNDERCOVER snout and the upper sensor bracket up the riser until you get at least one inch of the riser protruding from beneath the UNDERCOVER snout.

Ensure the UNDERCOVER snout is pointing straight forward and tighten the aluminum clamp bolts **13** using a 1/2" socket.

Insert and secure clip **14** into riser under the UNDERCOVER snout.

# INSTALLATION INSTRUCTIONS

## ALL JOHN DEERE SPRAYER SYSTEMS



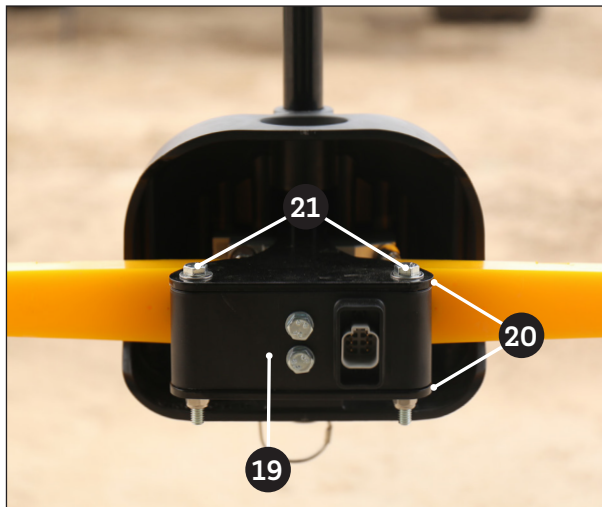
### STEP 7 | ASSEMBLE TACTILE WAND AND STEERING SENSOR

Using a 13 mm socket, remove the hardware and plate supplied on the steering sensor **15**.

Slide the tactile wand **16** onto the spindles of the steering sensor ensuring that the "V" of the tactile wand is oriented to the bottom of the sensor. The rectangular offset of the tactile wand should be facing the steering sensor.

**NOTE:** The top of the steering sensor is the side with product labels.

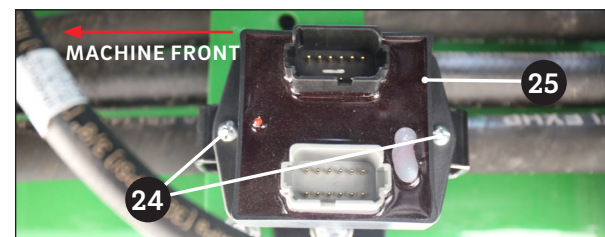
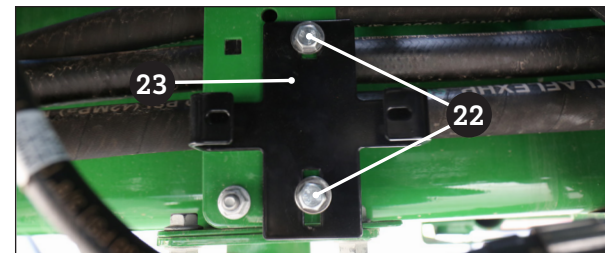
Reinstall the plate **17** and hardware **18** to secure the tactile wand to the steering sensor.



### STEP 8 | INSTALLING WAND/ SENSOR ASSEMBLY

Place the wand/sensor assembly **19** in between the upper and lower sensor brackets **20** attached to the sensor guard assembly (UNDERCOVER snout) so that the top of the sensor is facing up and the wand is facing the front of the sensor guard assembly.

Using the supplied 5/16" hardware **21**, bolt the upper and lower sensor brackets together, sliding the bolts through the holes in the rear of the sensor assembly.



### STEP 9 | INSTALL COMBO BOARD BRACKET

Using the supplied 5/16" X 1" hardware **22**, mount the combo board bracket **23** to the existing hydraulic hose bracket towards the rear of the cab under the belly of the machine.

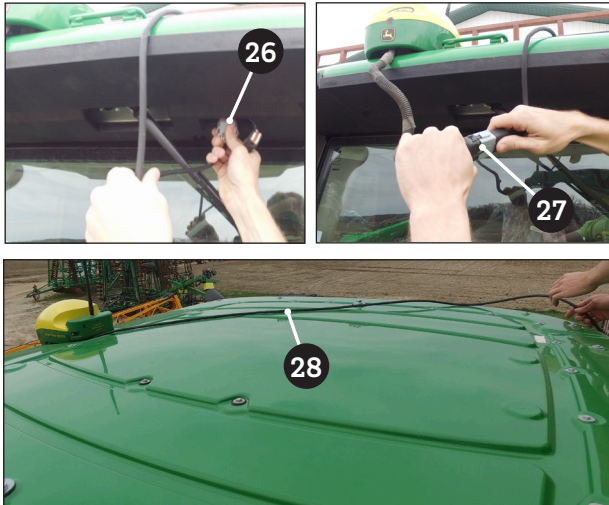
### STEP 10 | INSTALL COMBO BOARD

Using the supplied #10 hardware **24** along with a 10mm wrench and phillips screw driver, secure the combo board **25** to the combo board bracket ensuring the red LED indicator is oriented to the front of the machine.



# INSTALLATION INSTRUCTIONS

## ALL JOHN DEERE SPRAYER SYSTEMS



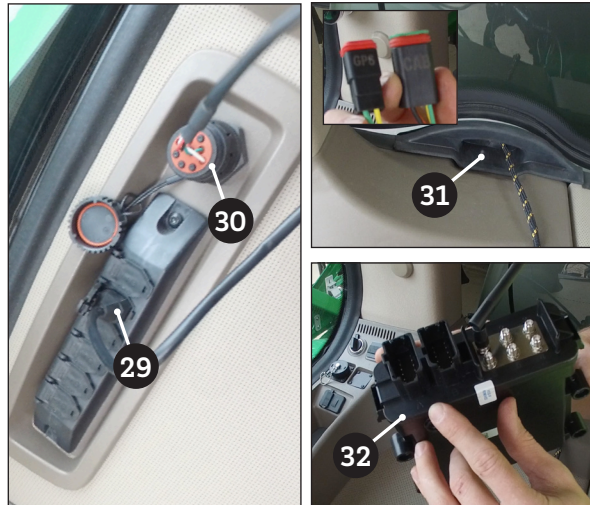
### STEP 11 | INSTALL GPS HARNESS (490230)

Plug in the 12 pin plugconnector into the GPS port embedded into the front of the cab, just below the GPS globe and bracket **26**.

Plug in the 12 pin receptacle connector in the 12 pin plug connector on the short OEM StarFire harness off the globe **27**.

Run the harness over the roof of the cab to the rear **28**, and then down along the right rear pillar of the cab.

The 2 pin receptacle connector will attach to the 2 pin plug connector on the JD steering tractor power harness (490228) in a later step.



### STEP 12 | JD Steering Tractor Power (490228)

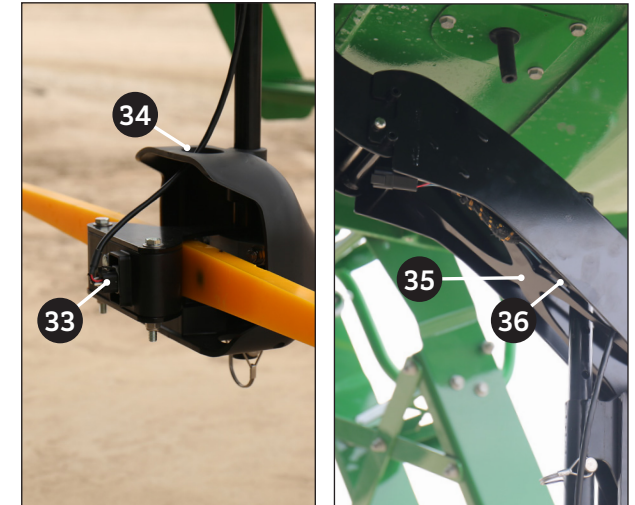
In the cab of the sprayer, attach the 3 pos Aux Power connector into the cab auxiliary power bank **29**.

Attach the large 9 pin circular connector to the OEM diagnostic port **30**.

Using the rubber through-port below the rear window **31**, run 4 pin and 2 pin connectors (labeled GPS and CAB) outside the cab.

The Gateway **32** connects into the two 12 pin connectors remaining with harness and can be placed in any position next to the seat.

**NOTE: The Gateway has labels for "A" and "B" ports. The "A" port will use the gray 12 pin connector and the "B" port will use the black.**



### STEP 13 | INSTALL DETACH EXTENSION HARNESS (490291)

Feed the 6 pin plugend of the harness **33** through the hole **34** in the top of the sensor guard assembly (UNDERCOVER snout) and plug it in to the rear of the tactile sensor.

Using zip ties, tightly attach the harness to the riser, moving up toward the breakaway.

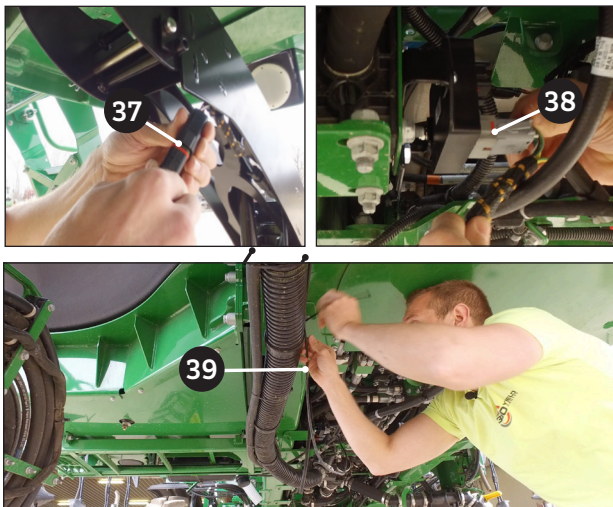
**NOTE: Be sure to leave enough slack in the harness to allow you to adjust the riser height if needed.**

Route the harness through the inside of the front shield and through the X braces **35** in the drop extension. Attach in at least one place with a zip tie.

Plug 2 pin connector to existing breakaway harness **36** and coil any remaining cable within the X braces of the drop extension.

# INSTALLATION INSTRUCTIONS

ALL JOHN DEERE SPRAYER SYSTEMS



## STEP 14 | INSTALL EXTENSION HARNESS (490229)

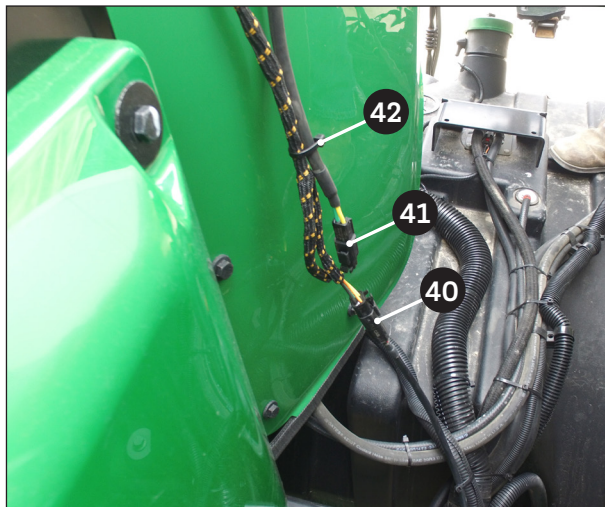
Start at the front of the machine and plug in the 6 pin plug connector to the 6 pin receptacle connector from the detach extension harness (37).

Route the 150" extension harness towards the combo board against the belly of the machine.

Plug in the 12 pin connector to the available "A" port (gray) on the combo board (38).

Run the 4' short lead with the 4 pin receptacle connector up between the cab and the tank.

Secure the 150" extension harness against the belly of the machine with zip ties at multiple spots along the way (39).



## STEP 9 | PLUG HARNESSES TOGETHER

Behind the cab, attach the four pin connection (40) and then the two pin connection (41).

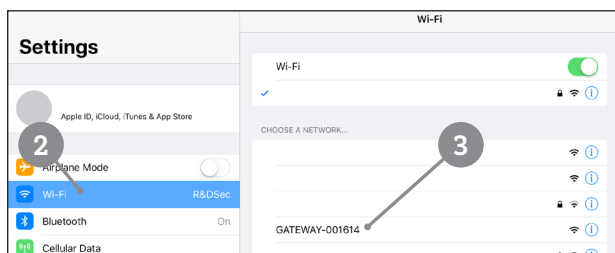
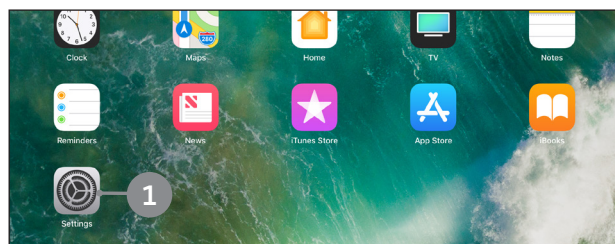
Once connected, zip tie them together (42).



## INSTALLATION COMPLETE

Once the 360 GLIDE system has been installed you can connect to it via wifi on your iPad using the 360 GUIDE App.

See pages 6-9 for instructions on setting up your 360 GUIDE App.



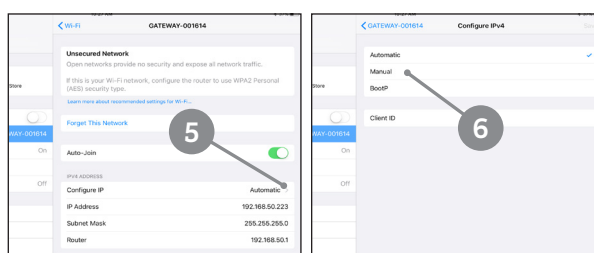
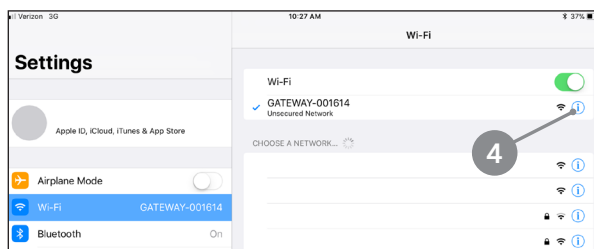
### STEP 1 | SETUP WIFI

**NOTE: Ensure the gateway control box is plugged in and powered on, indicated by the green LED.**

Select the settings icon ①.

In the left side of the Settings window, select the tab that reads "Wi-Fi" ②.

In the "Choose a Network" section, select "GATEWAY-OOXXXXX" ③.

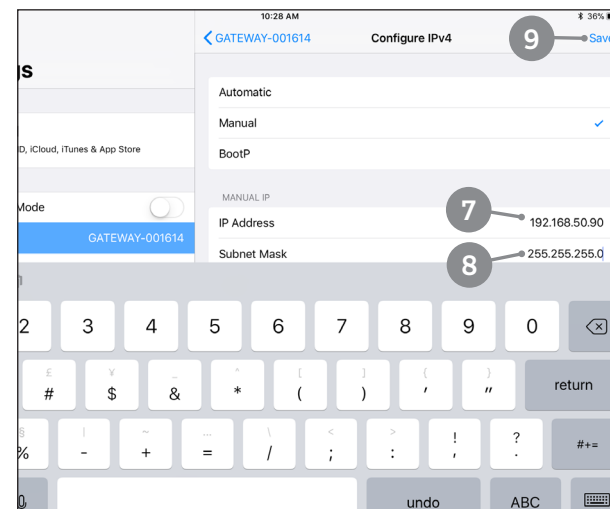


### STEP 2 | OPEN NETWORK SETTINGS

Once the GATEWAY-OOXXXXX network is active, press the information icon ④ to the right of the network name to open the GATEWAY-OOXXXXX settings page.

In the IPV4 Address section on the Configure IP line, select the small arrow ⑤ next to "Automatic".

In the Configure IPv4 window, automatic is checked by default. Change the setting by selecting "Manual" ⑥.



### STEP 3 | CONFIGURE NETWORK

Once the "Manual" option is checked, a "Manual IP" section will appear in the window.

Enter the following information in the IP Address ⑦ and Subnet Masks ⑧ lines respectively:

IP Address: **192.168.50.90**

Subnet Mask: **255.255.255.0**

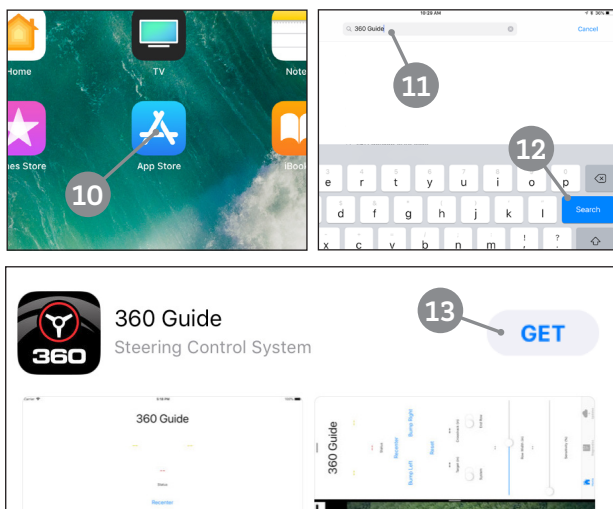
**NOTE: Leave "Router" empty.**

Select "Save" ⑨ in the top right corner.

**NOTE: The iPad is now connected to your cellular data network (if applicable) AND the GATEWAY WiFi network. When an app update is performed, reconnect to the GATEWAY network by selecting the GATEWAY network option under "Choose a network".**

# 360 GUIDE APP

## SET-UP AND USE



### STEP 4 | DOWNLOAD APP

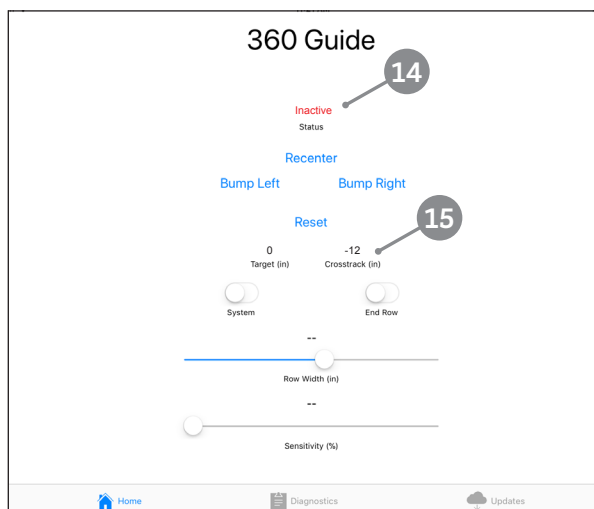
Select the App Store icon (10).

In the search section enter "360 Guide" (11) and then choose "Search" (12).

Select "Get" (13) to install the 360 Guide App on your iPad.

### STEP 5 | POWER SYSTEM ON

With the entire system installed, WiFi configured, and the app downloaded you can now power on the steering system.



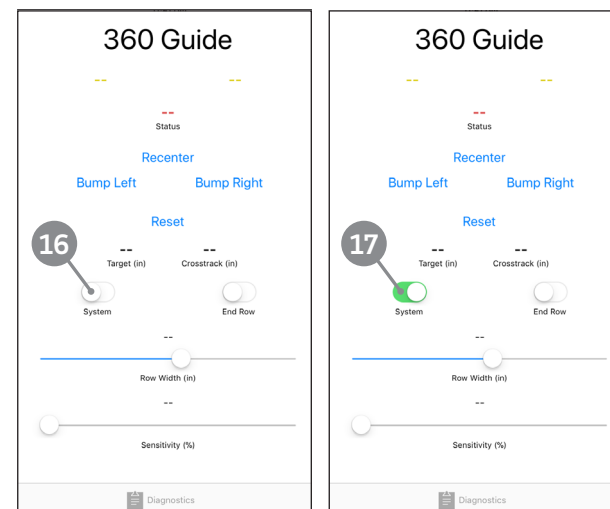
### STEP 6 | OPEN 360 GUIDE APP

Ensure the gateway control box is showing a green light and that the iPad is connected to the gateway Wi-Fi network.

Open the 360 GUIDE App.

The home screen of the app will show "inactive" (14) until the system is tuned on - This indicates that the GPS is not currently correcting based on the 360 GUIDE system.

**NOTE: If row width is set to 30 inch and sensors are not being flexed, crosstrack (15) will read -12. If you are not in a corn row, this reading is a good indication that the system is functioning correctly.**



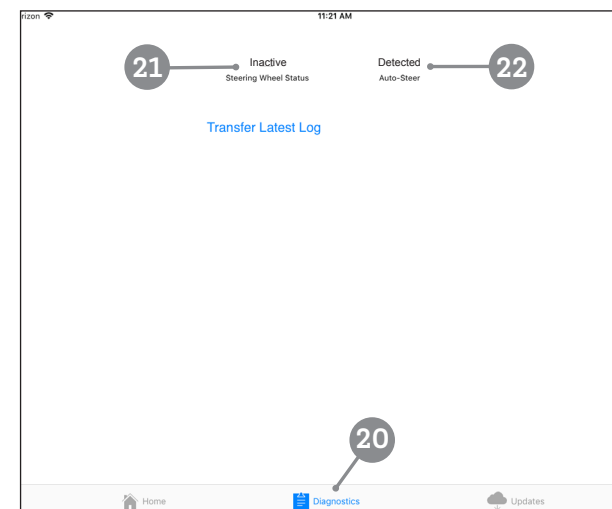
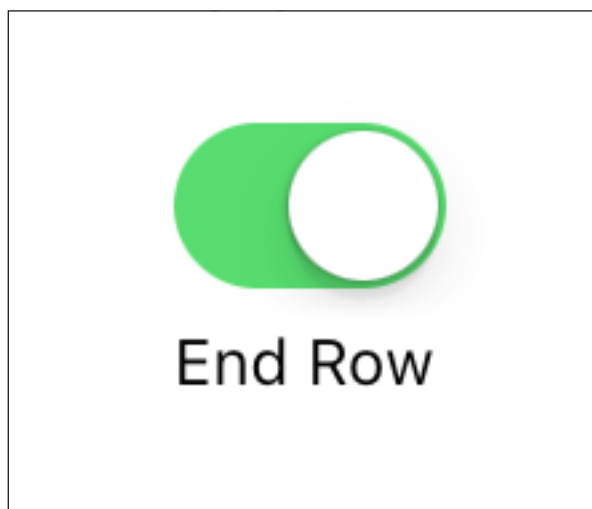
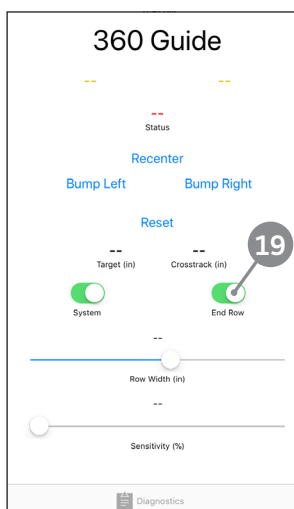
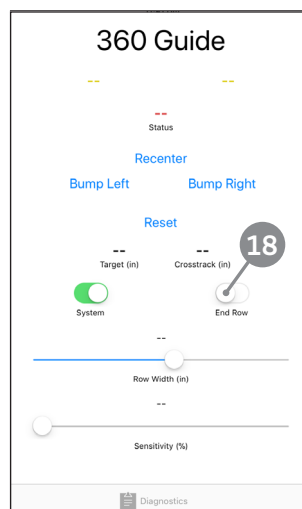
### STEP 7 | ACTIVATE 360 GUIDE

Turn the "System" toggle (16) on to activate the 360 GUIDE system. The toggle will illuminate green when on (17).

With the System toggle on, the 360 GUIDE system is manually engaged and will begin applying a correction to the GPS data until the toggle is switched off.

**NOTE: With ONLY the System toggle on, the system will correct whether or not it is sensing a corn row. For additional intelligence, continue to STEP 8.**





## STEP 8 | END ROW MANAGEMENT

**NOTE:** To use this feature the "System" toggle must be left in the "on" position.

Turn the "End Row" toggle **18** on to activate the End Row Management feature of the 360 GUIDE system. The toggle will illuminate green when on **19**.

With the End Row toggle on, the 360 GUIDE system will only engage when the sensors indicate incoming data. It will also sense when the steering wheel is moving and will recognize when the OEM auto-steer is on.

## STEP 8 | END ROW MANAGEMENT (CONT)

The system requires an inactive steering wheel and listens for **two presses** of the OEM auto-steer engagement button before it will engage 360 GUIDE steering. The 360 GUIDE system will automatically disengage when the steering wheel has been moved or if the sensors are not indicating incoming data.

This will allow you to use your OEM auto-steer to find the row and then with a second click of the auto-steer engagement button activates 360 GUIDE steering.

## STEP 9 | DIAGNOSTICS

To view Diagnostics of the system select the Diagnostics tab **20** at the bottom of the 360 GUIDE App screen.

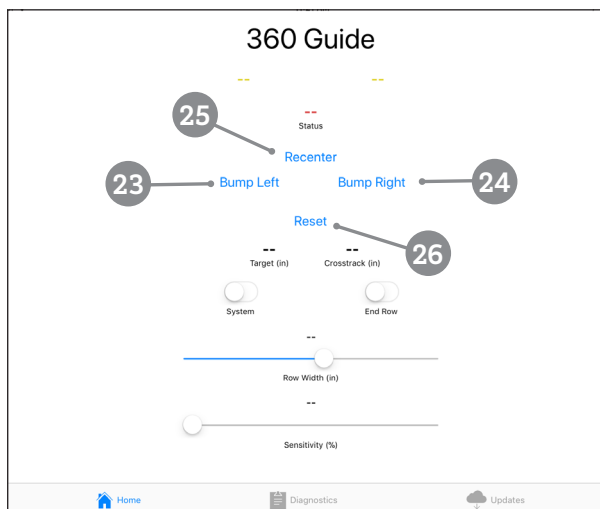
Steering Wheel Status **21** will read either "Inactive" or "Moving". The 360 GUIDE steering corrector will only be activated if the Steering Wheel Status is "Inactive" meaning that the steering wheel is not being moved.

Auto-Steer **22** will read either "Undetected" or "Detected". The 360 GUIDE steering corrector will only be active if the Auto-Steer reads "detected" meaning that the OEM auto-steer engagement button has been clicked twice.



# 360 GUIDE APP

## SET-UP AND USE



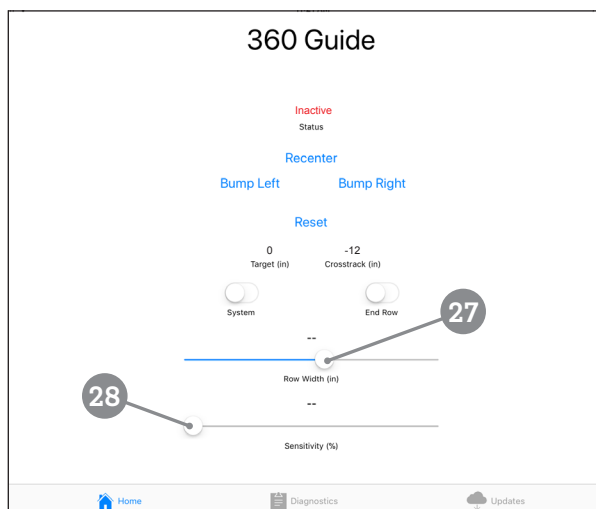
### STEP 10 | OFFSET UTILIZATION

To offset to the left or right, utilize the “Bump Left” 23 and “Bump Right” 24 buttons.

Every left or right bump will move the target by 1 inch. Bumping left will be indicated by negative values and bumping right will be indicated with positive values.

You can choose an offset target by manually steering your sprayer to the left or right and pressing the “Recenter” button 25. The system will then take an average over three seconds and will set the new reading as your target.

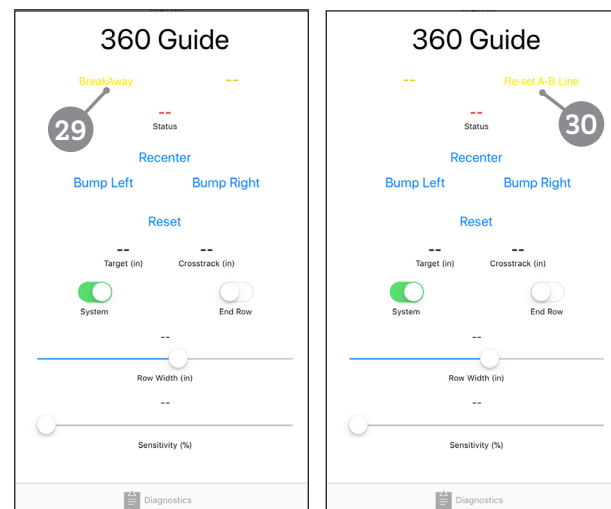
Press the “Reset” button 26 to reset to a target of zero.



### STEP 10 | ROW WIDTH & SENSITIVITY

Utilize the “Row Width” slider 27 to set the row width to your specific crop spacing. The slider ranges from 20-30 inches.

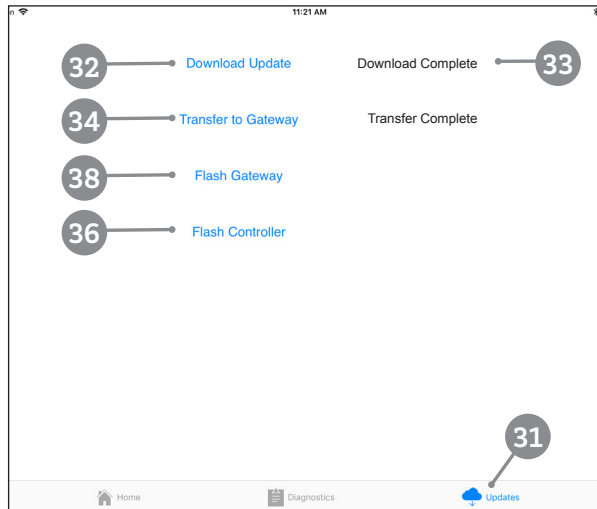
The “Sensitivity” slider 28 can be adjusted between values of 20% and 100%. It is recommended to set the OEM sensitivity between 75 and 85. Then adjust the sensitivity slider in the 360 GUIDE app based off of your steering performance and preference.



### STEP 11 | SYSTEM ALERTS

If the steering sensor has been pushed back enough to disconnect the magnet connection at the breakaway a “BreakAway” message 29 will appear on the top left of the 360 GUIDE app home screen. When the breakaway re-engages, the alert will go away.

The top right of the 360 GUIDE app home page will read “Reset A-B Line” 30 if the system feels that it is working too hard to keep the sensor in the center of the row. If the system is correcting more than 15”, it is recommended to reset your GPS line.

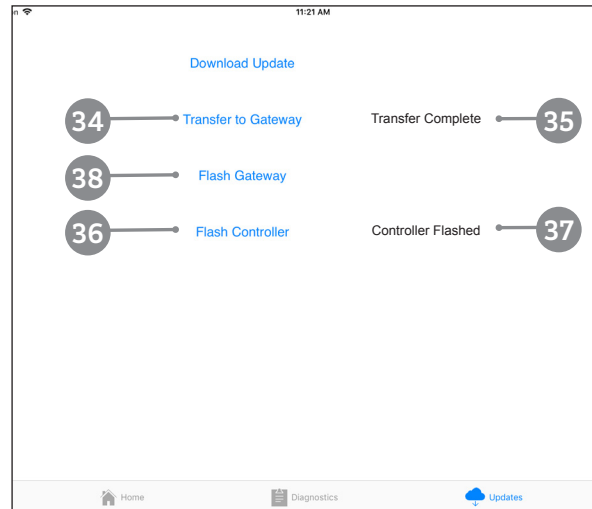


### STEP 1 | DOWNLOAD UPDATE

**NOTE:** Updates can be downloaded while in the field provided there is a strong LTE and GATEWAY WiFi connection.

Select the "Updates" tab **31** at the bottom of the 360 GUIDE App to open the "Updates" window.

Select "Download Update" **32** on the top of the screen to start the download. When complete the "Download Update" option will show a status of "Download Complete" **33**.



### STEP 2 | TRANSFER AND FLASH

When the download is complete, select "Transfer to Gateway" **34**. When complete the "Transfer to Gateway" option will show a status of "Transfer Complete" **35**.

When the transfer is complete, Flash the Controller (Combo Board). Select "Flash Controller" **36** -last option on the page. When complete the "Flash Controller" option will show a status of "Controller Flashed" **37**.

When the controller has been flashed, select "Flash Gateway" **38**. This process may take several minutes. When complete the gateway will need to reboot which may take several minutes.



### STEP 9 | RECONNECT WI-FI

The gateway will be ready to function when the indicator LED on the gateway control box has turned green.

**Ensure you are connected to the GATEWAY WiFi network. If the network is not connected, select the GATEWAY network option under "Choose a network".**

### APP UPDATE COMPLETE