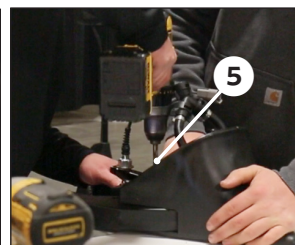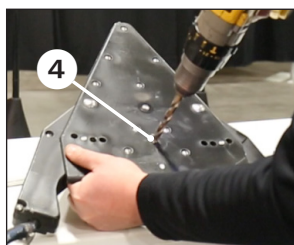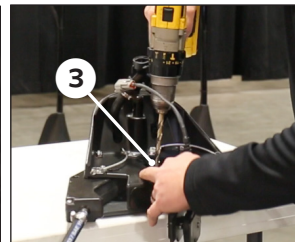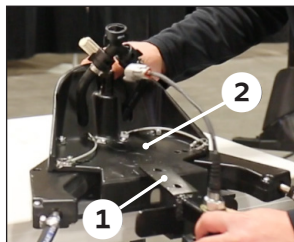# INSTALLATION INSTRUCTIONS
ALL JOHN DEERE SYSTEMS
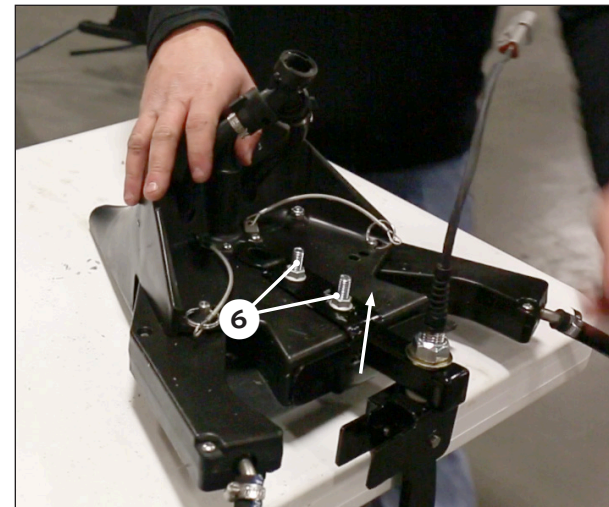
HELPFUL TOOLS

• Drill and Drill Bit for 3/8" Bolt
• 3/8" Ratchet with 9/16" Socket

NEED HELP?

Call our Product Support team at 888-512-4890.

STEP 1 | PREPARE BASE UNIT

Slide the boom height base mount assembly ❶ on to your Y-DROP base ❷ from the back and center directly between the two arms of the Y-DROP.

Mark the two holes on both the top and bottom of the Y-DROP base unit.

At the marks just made, using a 3/8" bit, drill through the top side of the Y-DROP base only ❸.

Turn the Y-DROP base unit over and drill through the bottom side of the unit at the marks previous made ❹.

Turn the Y-DROP base unit back over and drill all the way through top and bottom to ensure the holes are aligned ❺.
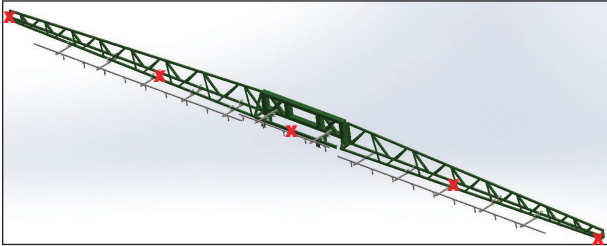
STEP 2 | ASSEMBLE BASE UNIT

Insert the carriage bolts ❻ from the bottom to secure the boom height base mount assembly to the Y-DROP base unit.

Install nuts and tighten.

STEP 3 | UNPLUG OEM SENSORS
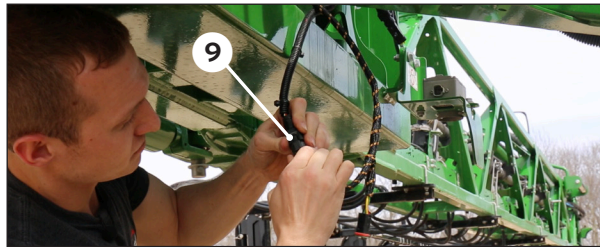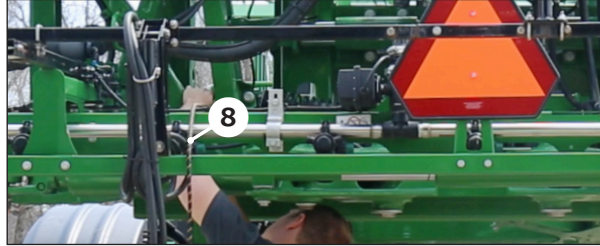
Unplug the five OEM Sonic Boom Height Sensors ❼. The OEM Sonic Boom Height Sensors are located at the middle of the machine, each primary boom, and the each secondary boom.

NOTE: OEM sensor locations may vary by model.

STEP 5 | ROUTE MAIN HARNESS

Route the braided main glide harness ❽ from the rear of the machine towards the front staying to the left of the "Slow Moving Vehicle" sign.

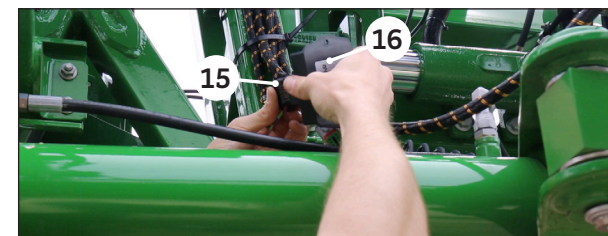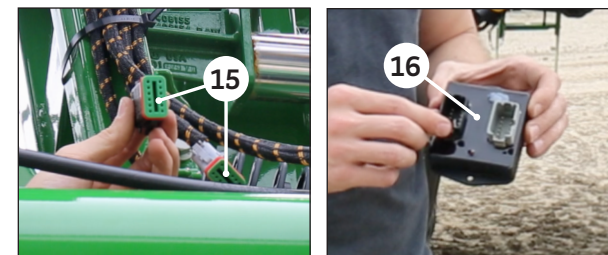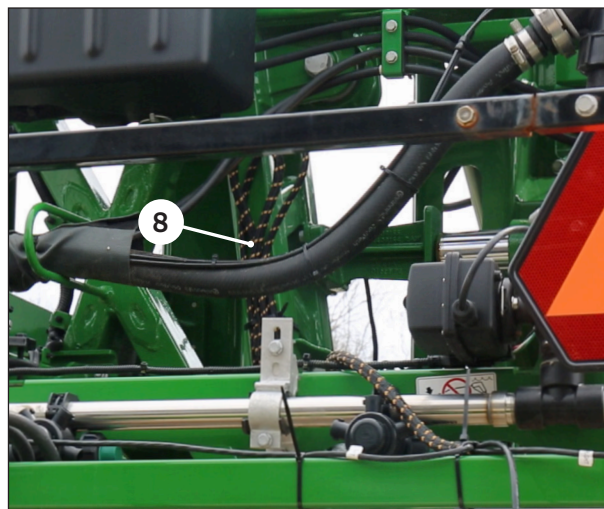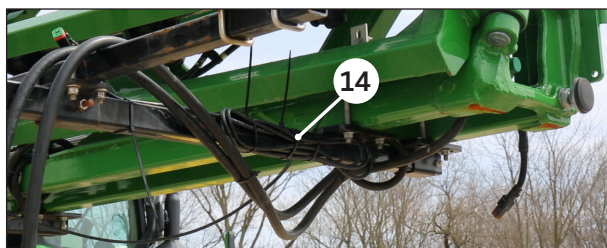Connect the harness into the 4 pin connector ❾ that was originally plugged in to the OEM Sensor.

STEP 5 | ROUTE MAIN HARNESS (CONT)

Route the short end of braided harness ❿ to the center drop location.

Secure to boom with zip ties ⓫.

RIGHT BOOM HARNESS

STEP 6 | ROUTE BOOM HARNESS

NOTE: The remaining two bundles of cable are labeled left and right. Ensure that each respective cable is routed to the correct side of the machine. Right and left are determined from the operators seat.

Route the remaining two cables along the right **12** and left primary booms respectively, ensuring that the connector ends up at the last drop location **13**.

Using zip ties, secure the harness **14** to the boom in safe locations, avoiding any pinch points.

NOTE: Leave enough slack in the harness to allow the boom to be folded for transport.

STEP 7 | SECURE MAIN HARNESS

Now that we have secured each boom harness, secure the remainder of the main braided harness **8** in a safe location that is out of the way of any pinch points.

STEP 8 | INSTALL COMBO BOARD

Plug the remaining two 12 pin plugs **15** from the main harness into the combo board **16**. Place combo board in a safe location.
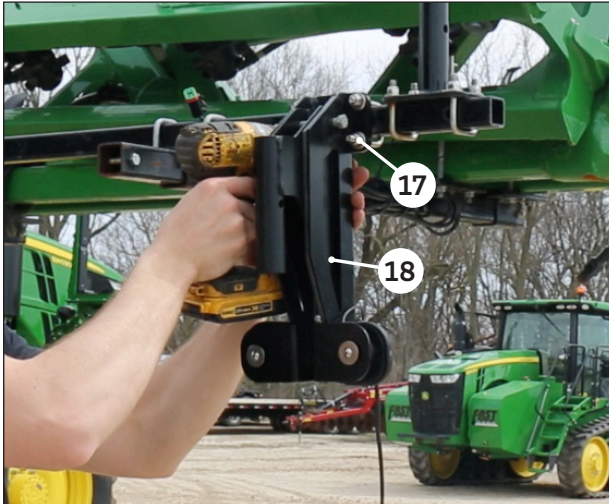
NOTE: The connectors are keyed and color-coded so you can only plug them in one way.

With the connectors facing either forward, rearward or downward, secure the combo board to the boom in a safe location, avoiding pinch points.

NOTE: When securing the combo board, ensure that the connectors do not face the upward direction.

STEP 9 | INSTALL BREAKAWAY

NOTE: If you previously had 360 Y-DROP installed, the old breakaways at the drop locations at center of the center section and the end of each primary boom MUST be removed and replaced with the new three-magnet breakaway - the old breakaways cannot be used at these drop locations.

Using the supplied u-bolts and 5/16" hardware **17**, install the new three-magnet breakaways **18** at the drop location at end of each primary boom and the center of the center section.

Ensure that the breakaway is oriented in such a way that it breaks away in a rearward motion.
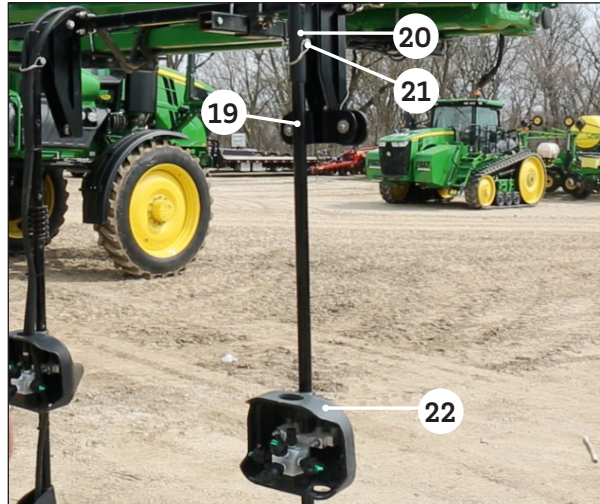

STEP 10 | INSTALL RISER

NOTE: The 360 GLIDE system uses a new "fixed" riser, meaning it does not have a spring like the other Y-DROP risers. These new risers MUST be used on the drops with the boom height base units on them - old risers cannot be used at these drop locations.

Install the new fixed risers **19** at each 360 GLIDE drop location by sliding the riser into the riser tube **20** on the three-magnet breakaway.

Secure the risers into the riser tubes on the breakaways with pin and wire clip **21**.

If 360 UNDERCOVER is also installed on this machine, you can now reinstall the 360 UNDERCOVER unit **22** onto the fixed riser.
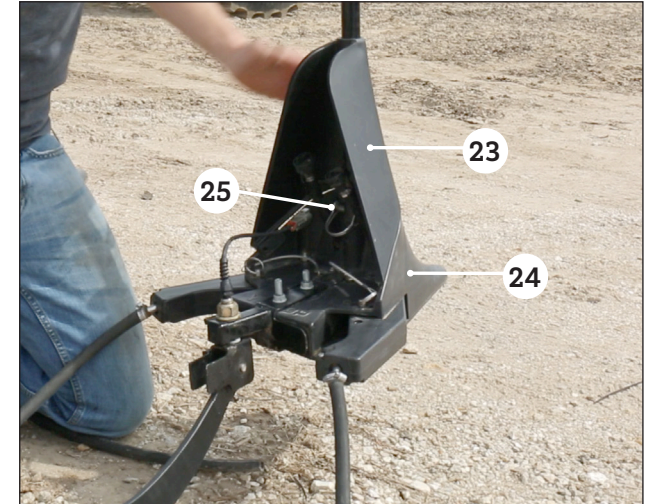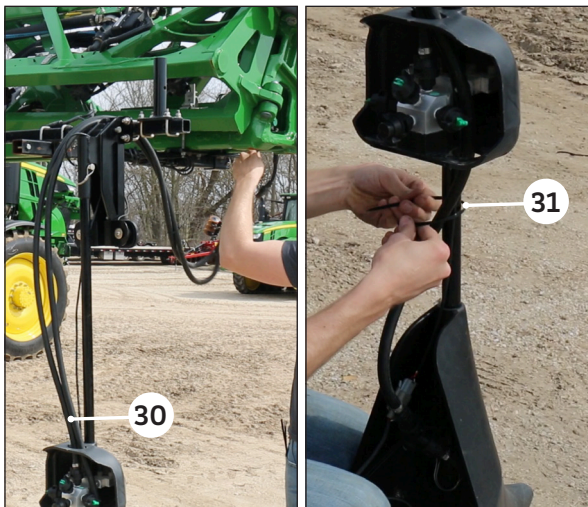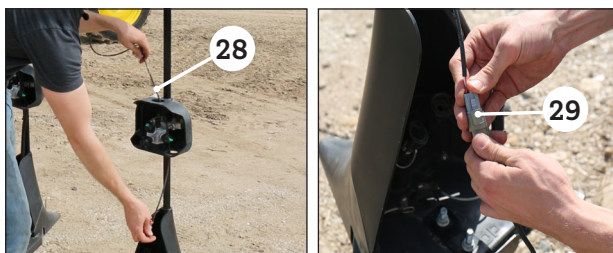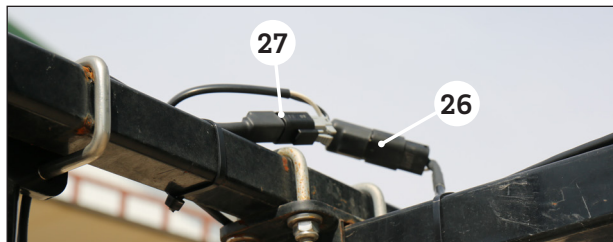

STEP 11 | INSTALL Y-DROP BASE UNIT

Starting from the bottom of the riser, slide the Y-DROP shield **23** and the previously assembled Y-DROP base unit **24** with the 360 GLIDE sensor onto the riser.

Secure the Y-DROP base unit to the riser with pin and wire clip **25**.

Repeat for the remaining two drop locations.

STEP 12 | ROUTE DROP HARNESS

Plug the 4 pin female connector into the previously routed boom harness **26**. Plug the 2 pin male connector into the 2 pin connector on the three-magnet breakaway **27**.

Route the remainder of the harness **28** down the riser through the 360 UNDERCOVER unit to the Y-DROP base unit.

Plug the 3 pin connector **29** into the boom height sensor at the Y-DROP base unit.

Repeat for the remaining two drop locations.

STEP 13 | RE-INSTALL HOSES

Reinstall the 360 Y-DROP, and if applicable, the 360 UNDERCOVER hoses **30** by routing them from the OEM boom down through the 360 UNDERCOVER unit to the Y-DROP base unit.

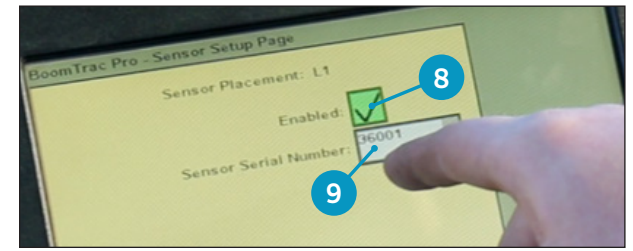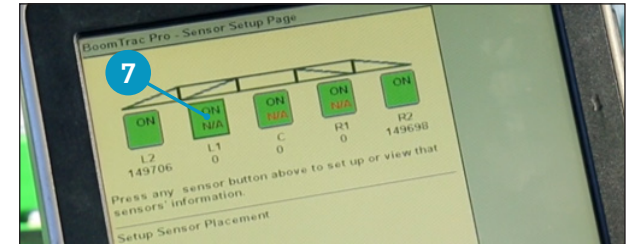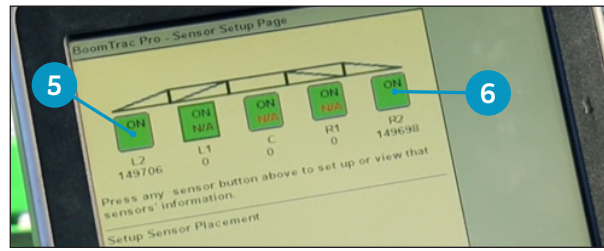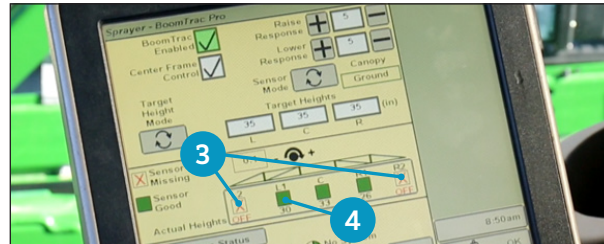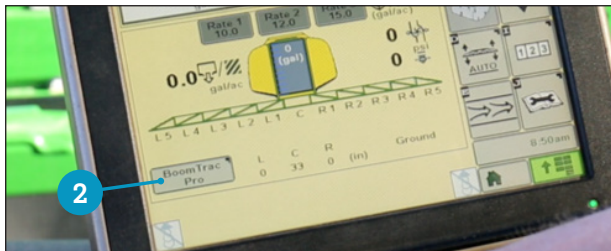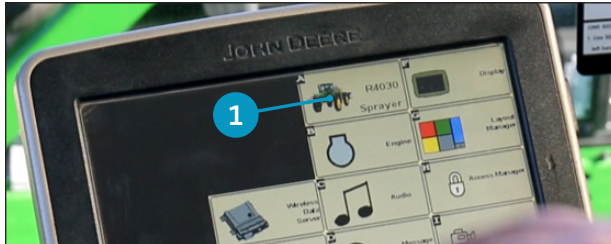Secure hoses at multiple locations against the riser **31**.

Repeat for remaining two drop locations.

MECHANICAL INSTALLATION COMPLETE

You can now complete the installation process by setting up the in-cab monitor using the sets on the following pages.

STEP 1 | BOOMTRAC PRO

NOTE: The following monitor setup instructions are for John Deere R4030 models with a 2630 monitor. For setup instructions for a John Deere R4030 with 4600 Monitor see pages 8-9.

On the home screen, click on tile A "R4030 Sprayer" ❶ to navigate to the sprayer window.

Once the sprayer window has opened, click on the "BoomTrac Pro" button ❷.

STEP 2 | UNUSED SENSORS

In the "Sprayer - BoomTrac Pro" window that opens, verify that the two outer sensors ❸ are indicated as not reading.

NOTE: If a reading is being provided by either outer sensor of the secondary boom, the OEM sensor in that location needs unplugged.

Click on the L1 sensor icon ❹ to open the "BoomTrac Pro - Sensor Setup Page" window.

In the "BoomTrac Pro - Sensor Setup Page" window, click on the L2 sensor icon ❺. Disable this sensor by un-checking the "Enabled" box.

Repeat for the R2 sensor ❻.

STEP 3 | 360 GLIDE SENSORS

In the "BoomTrac Pro - Sensor Setup Page" window, click on the L1 sensor icon ❼. Ensure the sensor is marked as "Enabled" ❽.

Select the appropriate serial number ❾ for the location:
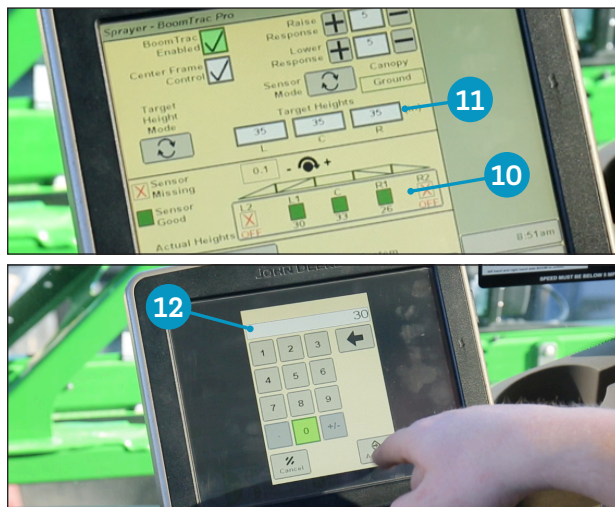
Sensor L1 - Serial Number 36001

Sensor C - Serial Number 36002

Sensor R1 - Serial Number 36003

Repeat for sensor C and sensor R1 using the appropriate serial number for each.
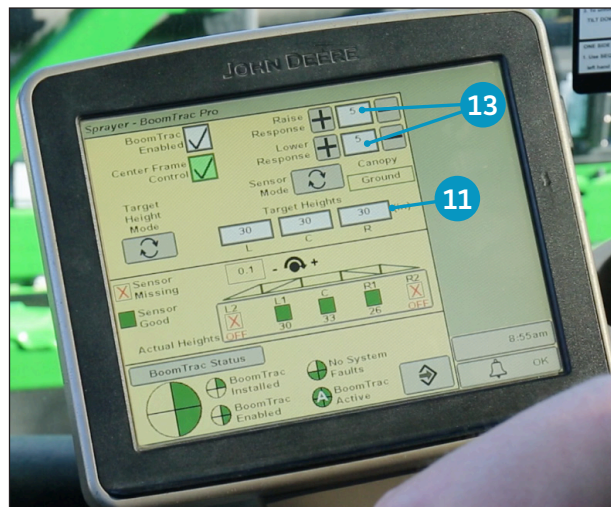
STEP 4 | TARGET HEIGHT

Manually lower your boom to your preferred operating height. It is recommended to run the Y-DROP base unit about 12-14" off the ground.

Back at the "Sprayer - BoomTrac Pro" window, compare the sensor height readings **10** to the target height settings **11**.

In the "Target Heights" section of the screen, click on the value above each sensor location (L, C, & R) **11** to open the window **12** to set the target height for each sensor location to match the reading from that sensor. E.g. if the actual sensor reading is a value of 30, the target height should be set to 30.

Click "Accept" and repeat for remaining two sensors.

STEP 4 | TARGET HEIGHT (CONT)

NOTE: In the beginning, it may be beneficial to set the target height slightly higher (by 1-3 units) than the actual sensor reading.

Engage the BoomTrac Pro to check calibration. Disengage and adjust target heights **11** as necessary until desired height is achieved.

STEP 5 | RESPONSE RATES

The response rate **13** can be adjusted according to your preference by clicking on the "-" or "+" buttons on either side of the numerical value in the "Raise Response" or "Lower Response" section. The higher the number, the faster the response.

NOTE: Some response scales may have "Low, Medium Low, Medium, Medium High, High" options rather than numeric values.
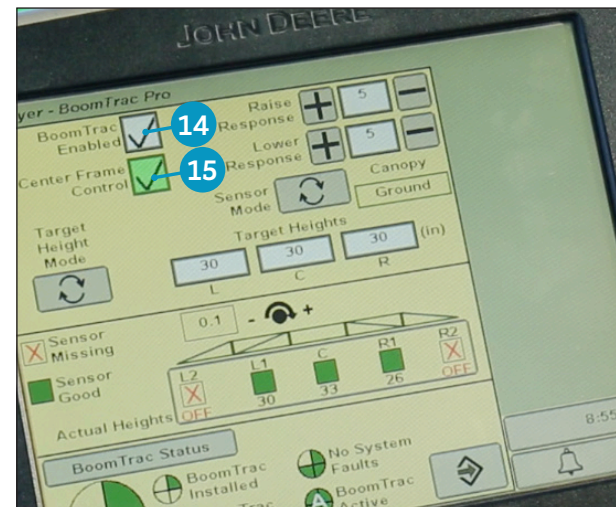
STEP 6 | OTHER

Ensure that both the "BoomTrac Enabled" **14** and the "Center Frame Control" **15** check-boxes are checked.

MONTIOR SET UP COMPLETE

NOTE: Once setup is complete if you return to the home page, the values for L and R will read as "0" because the L2 and R2 sensors are unplugged. In order to view the L1 and R2 values you must navigate back to the Sprayer -BoomTrac Pro page using the "BoomTrac Pro" button on the home page.
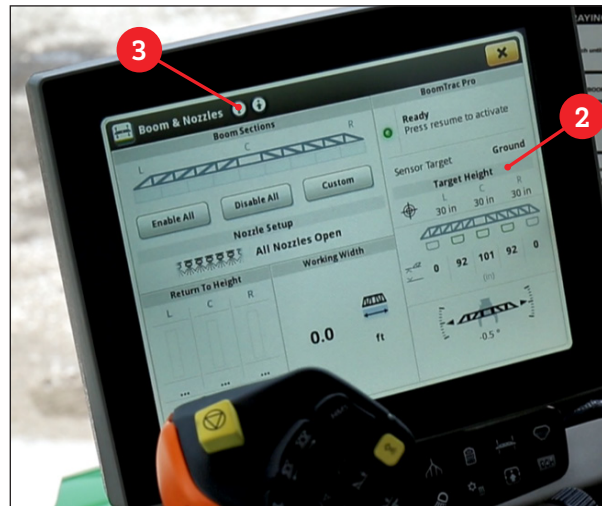
STEP 1 | BOOMTRAC PRO BOX

NOTE: The following monitor setup instructions are for John Deere R4030 models with a 4600 monitor. For setup instructions for a John Deere R4030 with 2630 Monitor see pages 6-7.

In the BoomTrac Pro tile on the monitor, the heights provided by each 360 GLIDE sensor is displayed. Click on the "BoomTrac Pro" tile ❶ to open the "Boom & Nozzles" window.

STEP 2 | INFO AND SETTINGS

In the "Boom & Nozzles" window that opens, the boom height reading from the 360 GLIDE sensors is displayed to the right in the "Target Height" section ❷.

Click on the information icon ❸ at the top of the "Boom & Nozzles" window to open the "Information and Settings | Boom" window.
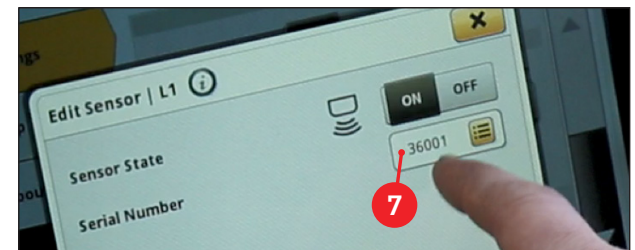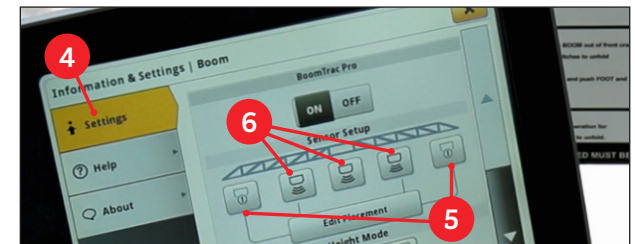
STEP 3 | SENSOR LOCATIONS

With the "Information and Settings | Boom" window open, select the "Settings" tab ❹ to the left.

Verify that the two outer sensors ❺ are indicated as not reading.

NOTE: If a reading is being provided by either outer sensor of the secondary boom, the OEM sensor in that location needs unplugged.

Clicking on each sensor icon ❻, thus opening the "Edit Sensor" dialog box. Then, select the appropriate serial number ❼ for the location:

Sensor L1 - Serial Number 36001

Sensor C - Serial Number 36002

Sensor R1 - Serial Number 36003

STEP 4 | TARGET HEIGHT

Close the "Information and Settings | Boom" window by clicking the "X" **8** in the upper right-hand corner. You will now be back to the "Spraying" home screen.

Manually lower your boom to your preferred operating height. It is recommended to run the Y-DROP base unit about 12-14" off the ground.

Click on the "BoomTrac Pro" tile **1** to re-open that window.

In the "Target Height" section of this window, compare the sensor height readings **9** to the target height settings **10**.

Click "Target Height" **11** to open the window to adjust this setting.

STEP 4 | TARGET HEIGHT (CONT)

Click on the value under each sensor (L, C, & R) **12** to set the target height for each sensor location to match the reading from that sensor. E.g. if the actual sensor reading is a value of 75, the target height should be set to 75.

NOTE: In the beginning, it may be beneficial to set the target height slightly higher (by 1-3 units) than the actual sensor reading.

Engage the BoomTrac Pro to check calibration. Disengage and adjust as necessary until desired height is achieved.

STEP 5 | RESPONSE RATES

The raise response rate **13** can be adjusted according to your preference by clicking on the "-" or "+" buttons on either side of the numerical value in the "Raise Response" section. The higher the number, the faster the response.

It is recommended to set the "Sensor Target" setting to "Ground" **14**.

MONTIOR SET UP COMPLETE