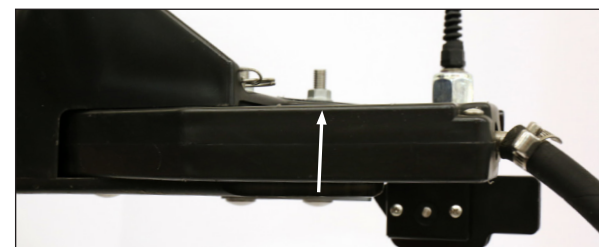
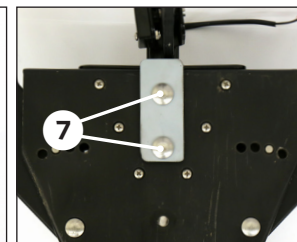
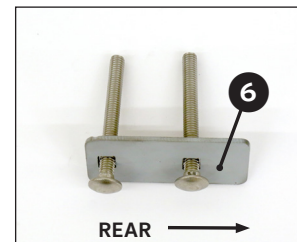
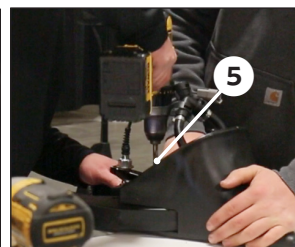
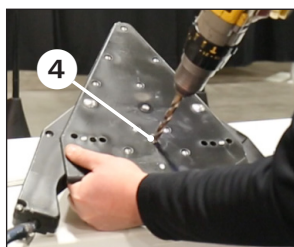
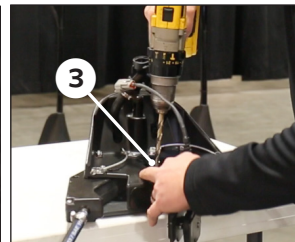
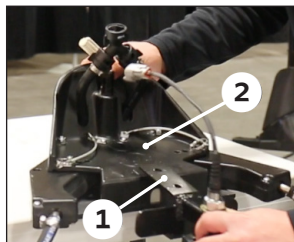


# INSTALLATION INSTRUCTIONS

ALL HAGIE 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 ① on to your Y-DROP base ② 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 ③.

Turn the Y-DROP base unit over and drill through the bottom side of the unit at the marks previous made ④.

Turn the Y-DROP base unit back over and drill all the way through top and bottom to ensure the holes are aligned ⑤.

## STEP 2 | ASSEMBLE BASE UNIT

Insert the carriage bolts through the stop plate first ⑥.

**NOTE: The long end of the stop plate should be positioned towards the rear.**

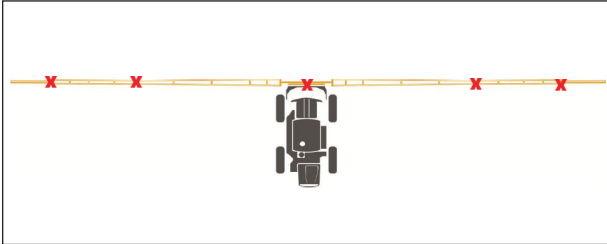
Insert bolts with stop plate from the bottom ⑦ to secure the boom height base mount assembly to the Y-DROP base unit.

**NOTE: The stop plate should be on the outside of the lower bracket fork.**

Install nuts and tighten.

# INSTALLATION INSTRUCTIONS

## ALL HAGIE SYSTEMS



### STEP 3 | UNPLUG OEM SENSORS

Unplug the five NORAC Boom Height Sensors **8** located at the middle of the machine, each primary boom, and each secondary boom.

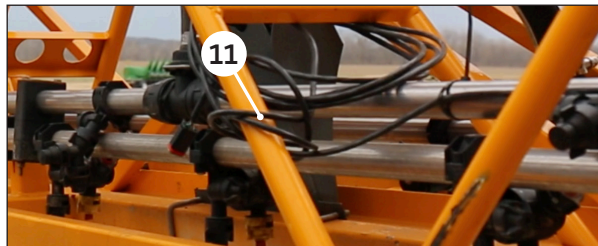
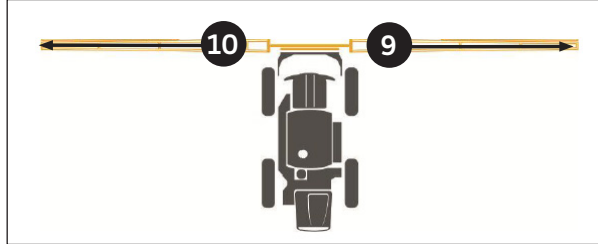
#### NOTES:

**OEM sensor locations may vary by model.**

**Unplug the harness that plugs into the sensor itself.**

**At the L2 and R2 sensors, ensure that the white termination plug is left on the harness side of the connection, not plugged with the sensor.**

Install the supplied dust (5) caps 201350 and (5) plugs 201351 to the OEM harness and OEM sensors.



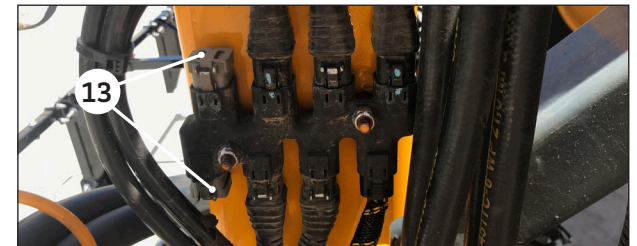
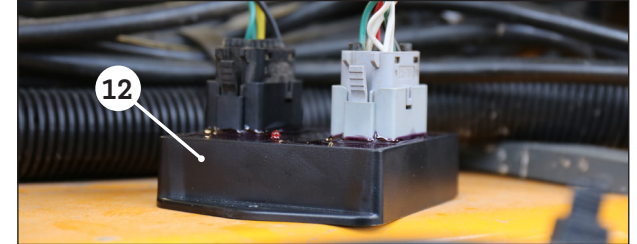
### STEP 4 | ROUTE BOOM HARNESS

**NOTE: The 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 each cable along the right **9** and left **10** primary booms respectively, ensuring that the connector ends up at the last drop location **11**.

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

**NOTE: Run harness with NORAC system to prevent pinch points and clearance issues. Leave enough slack in the harness to allow the boom to be folded for transport.**



### STEP 5 | ROUTE MAIN HARNESS

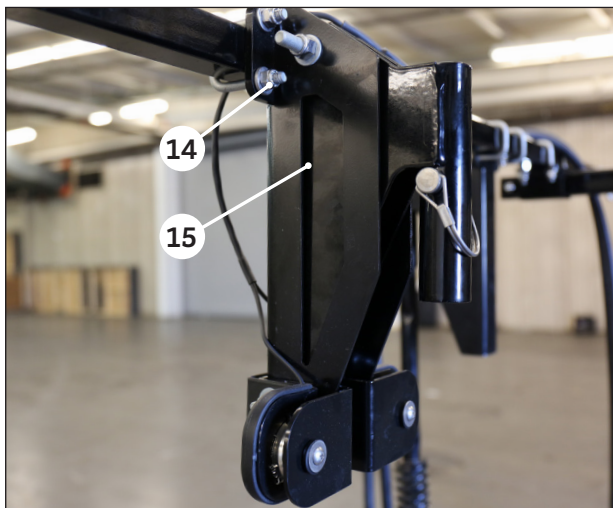
Center section plugs will be plugged directly into the glide combination board **12**. Plug the remaining 2-12 pin plugs on the main harness into the combination board. The connectors are keyed and color coded so you can only plug them in one way.

You will need to use your 12 inch harness adapter (419302) to connect the Main Boom Glide Harness to the 8-way NORAC connection port **13**.

**NOTE: The box will be located in different spots dependent on model, it doesn't make a difference where it plugs in as long as it is an open port.**

# INSTALLATION INSTRUCTIONS

ALL HAGIE SYSTEMS

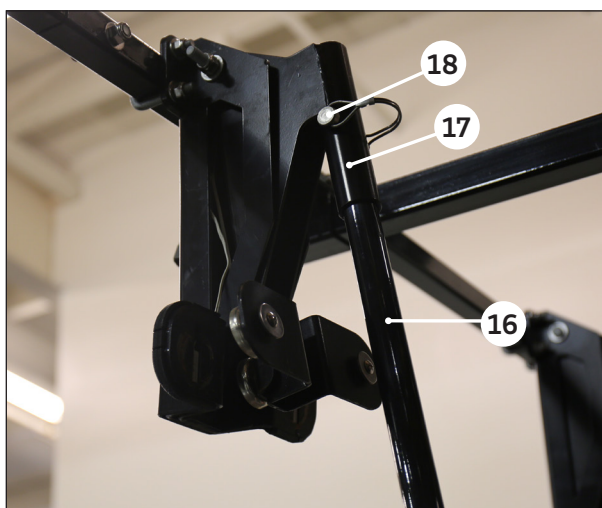


## STEP 6 | INSTALL BREAKAWAY

**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 14, install the new three-magnet breakaways 15 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 7 | 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 16 at each 360 GLIDE drop location by sliding the riser into the riser tube 17 on the three-magnet breakaway.

Secure the risers into the riser tubes on the breakaways with pin and wire clip 18.

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



## STEP 8 | INSTALL Y-DROP BASE UNIT

Starting from the bottom of the riser, slide the Y-DROP shield 19 and the previously assembled Y-DROP base unit 20 with the 360 GLIDE sensor onto the riser.

Secure the Y-DROP base unit to the riser with pin and wire clip 21.

Repeat for the remaining two drop locations.



### STEP 9 | ROUTE DROP HARNESS (419302)

Plug the 4 pin female connector into the previously routed boom harness **22**. Plug the 2 pin male connector into the 2 pin connector on the three-magnet breakaway **23**.

Route the remainder of the harness **24** down the riser through the 360 UNDERCOVER unit to the Y-DROP base unit.

Plug the 3 pin connector **25** into the boom height sensor at the Y-DROP base unit.

Repeat for the remaining two drop locations.



### STEP 10 | RE-INSTALL HOSES

Reinstall the 360 Y-DROP, and if applicable, the 360 UNDERCOVER hoses **26** 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 **27**.

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.

# MONITOR SETUP

## HAGIE WITH A NORAC MONITOR

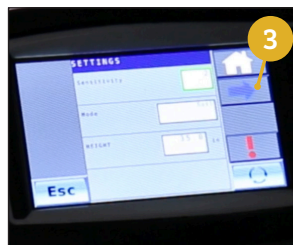


### STEP 1 | NORAC UC5 START UP

Ensure the boom is lowered so that the Y-DROP bases are approximately 12 inches from the ground.

**NOTE:** As the NORAC UC5 system starts up an "invalid program" alert ① will appear. 36001, 36002, 36003 are the labels for the 360 GLIDE sensors. Another error message will display showing that the NORAC sensors are unplugged.

The home screen will show no communication for outer left and right sensors.



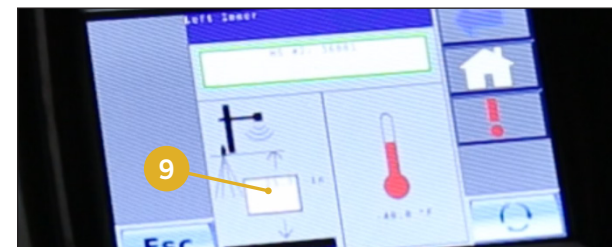
### STEP 2 | NAVIGATION TO SENSORS

On the home screen select the wrench icon ② to display the settings window.

In the "Settings" window that appears, select the arrow icon ③ to display more settings options.

In the "Settings" window, select the wrench icon ④ to display the setup window.

In the setup window that appears, select the sensor icon ⑤ to open the "Sensors" window.



### STEP 3 | 360 GLIDE SENSORS SETUP

In the "Sensors" window, click on the L2 sensor icon ⑥ and ensure the NORAC sensors is turned OFF.

Repeat for all remaining sensors (⑦, ⑧, ⑩, and ⑪).

Close and then reopen the sensor window to start the selection of the 360 GLIDE sensors.

In the "Sensors" window, select the L1 sensor icon ⑧ (primary boom height sensor on the left side) and select **36001** for the sensor. Change the height measurement ⑨ to 12 inches.

In the "Sensors" window, select the R1 sensor icon ⑩ (primary boom height sensor on the right side) and select **36003** for the sensor. Change the height measurement to 12 inches.

In the "Sensors" window, select the center section sensor icon ⑪ and select **36002** for the sensor. Change the height measurement to 12 inches.

# MONITOR SETUP

## HAGIE WITH A NORAC MONITOR



### STEP 4 | MEASUREMENT DATA

Return to the "Home" screen by selecting the home icon.

**NOTE: Once sensor setup is complete if you return to the home page, the screen will show no data for L and R because the L2 and R2 sensors are unplugged.**

To view primary boom data, from the home page select the wrench icon (2). In the "Settings" window that appears click the arrow icon (3) to show more options. Select the search icon (12) to open the "Diagnostic" window. Select the sensor icon (13).

### STEP 5 | TARGET HEIGHT

Ensure the Y-DROP bases are approximately 12 inches from the ground.

On the home screen, select the wrench icon.

In the "Settings" window that appears, set the "Height" value (14) to 12 inches.

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

### STEP 6 | AUTOMATIC BOOM HEIGHT

Return to the home screen.

Click the "A" icon (15) to engage the automatic boom height system, which is now taking it's readings from the 360 GLIDE boom height sensors.

### MONITOR SET UP COMPLETE