



360 GLIDE™

INSTALLATION INSTRUCTIONS
ALL NORAC UC5 AND UC7 SYSTEMS



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FOR QUESTIONS PLEASE CONTACT OUR
PRODUCT SUPPORT TEAM AT 309-300-3120

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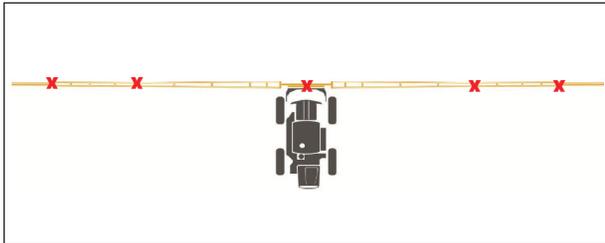
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STEP 1

UNPLUG OEM SENSORS



❗ BEFORE YOU BEGIN: NORAC calibration should be done **PRIOR** to installing Y-DROPS. **DO NOT** start automatic set up/calibration with Y-DROP installed as you will not be able to calibrate, and have to take Y-DROPS off to complete.

Unplug the five OEM Boom Height Sensors **1** located at the middle of the machine, each primary boom, and each secondary boom.

NOTE: OEM sensor locations may vary by model. Unplug the harness that plugs into the sensor itself.

NOTE: 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 (5) dust caps 201350 and (5) plugs 201351 to the OEM harness and OEM sensors.

STEP 2

ROUTE MAIN HARNESS



Plug the 12-inch harness adapter (419310) into the 4-pin receptacle connection of the main harness (419311).

Connect the other end of the 12 inch harness to the 8-way NORAC connection port **2**.

2021+ UC7 systems do not have an 8-way connection port. For these systems, unplug the junction to the center NORAC sensor and then plug-in the 12 inch harness. **2B**

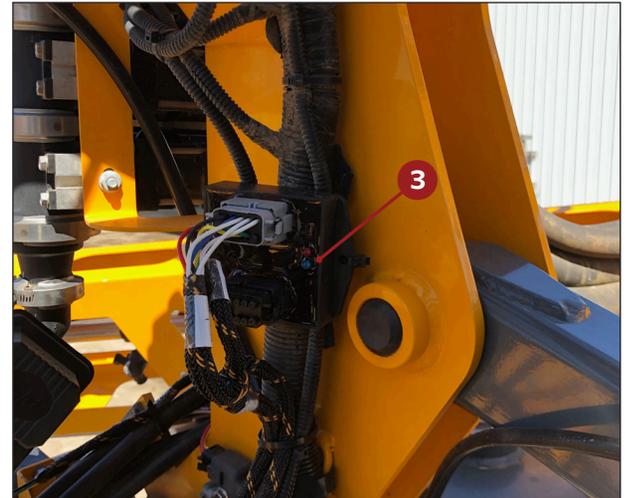
NOTE: The connection port will be located in different spots depending on the model. It does not make a difference where it plugs in as long as it is an open port.

Route the remainder of the harness through the machine to the center Y-DROP location.

Secure the end of the harness at the center Y-DROP location with zip ties. Secure the harness length along the boom with zip ties and secure extra harness out of the way.

STEP 3

INSTALL COMBO BOARD



Plug the two 12-pin plugs from the main harness into the controller **3**. Place controller 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 sideways or downward, secure the combo board to the boom in a safe location, avoiding pinch points.

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

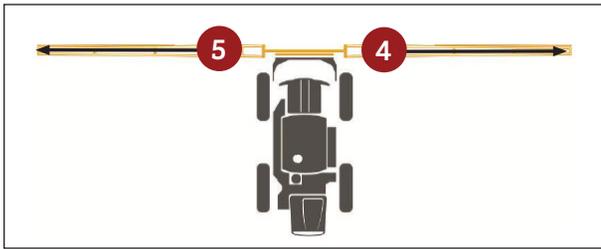
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STEP 4

ROUTE BOOM HARNESES



The main extension harness has left, center and right connections.

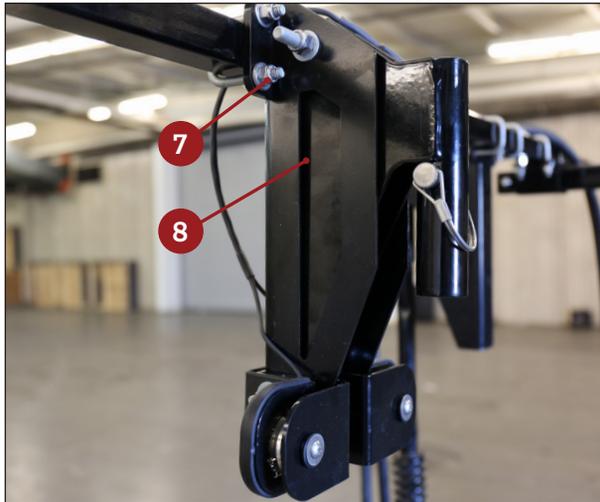
NOTE: Boom extension harnesses are identical, ensure the left connector goes to the left side and the right connector goes to the right side. Left and right are determined from the operator's seat.

Route the two boom extension harnesses (419314) along the right (4) and left (5) primary booms respectively, ensuring that the plug connector ends up at the last drop location (6).

NOTE: Leave enough slack in the harness to allow the boom to be folded for transport. Following the existing wiring harness will ensure the harness is kept out of the pinch points.

STEP 5

INSTALL BREAKAWAY



NOTE: If previously installed, 360 Y-DROP breakaways **MUST** be removed and replaced with the new three-magnet breakaway at the three 360 GLIDE drop locations.

Using the supplied u-bolts and 5/16" hardware (7), install the new three-magnet breakaways (8) 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 6

INSTALL RISER



Install the risers (9) at each 360 GLIDE drop location by sliding the riser into the riser tube (10) on the three-magnet breakaway.

Secure the risers into the riser tubes on the breakaways with pin and wire clip (11).

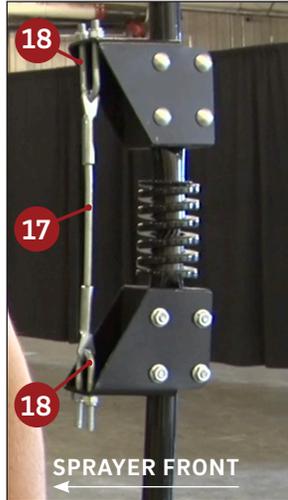
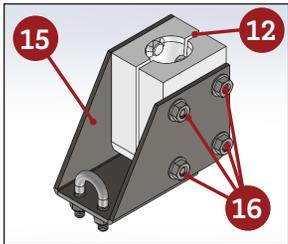
NOTE: If not previously installed, you can now install the 360 UNDERCOVER unit (if applicable), 360 Y-DROP shield, and 360 Y-DROP base unit onto the riser.

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STEP 7 INSTALL SPLINT



Install spacer blocks **12** by sandwiching riser above and below the spring. Ensure the nub on the block **13** goes into the indentation on the riser **14**.

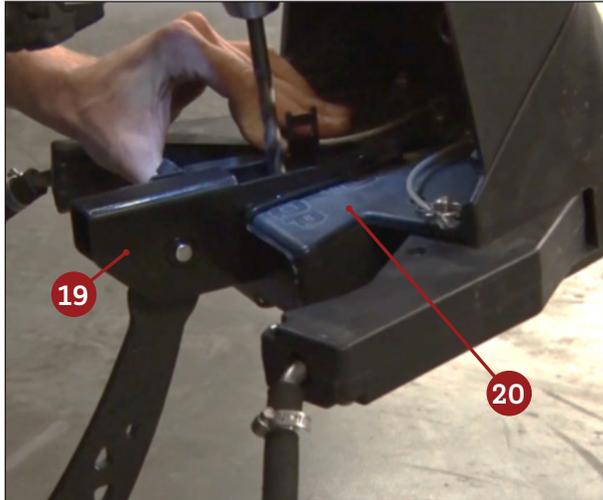
With the spacer blocks installed around the riser, slide the sleeve **15** over the spacer blocks. Insert bolts through the side that has square holes (carriage bolt holes) first. Secure with flange nuts **16** installed on the side with the circle holes. Tighten nuts.

NOTE: The pointed end of the sleeve should be facing the direction of travel.

Install splint cable **17** by inserting a u-bolt **18** on each side of cable and connect through the top and bottom of each sleeve respectively. Secure with nyloc nuts and tighten until the cable has light tension but is not buckling the riser.

NOTE: You may need to slide the riser off the breakaway to tighten the top nyloc nuts.

STEP 8 PREPARE BASE UNIT



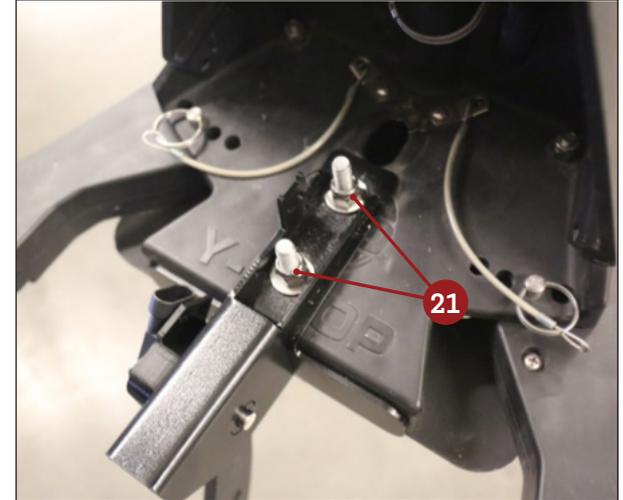
Slide the boom height base mount assembly **19** on your 360 Y-DROP base **20** from the back. Center directly between the two arms of the Y-DROP.

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.

When the top holes have been drilled, drill through the bottom side of the unit at the marks previously made.

STEP 9 ASSEMBLE BASE UNIT



Insert 3/8" carriage bolts through the bottom of the base unit. Secure on top with washers and 3/8" nyloc nuts **21**.

Tighten with 9/16" socket.

Repeat steps 8 and 9 for other two 360 GLIDE drop locations.

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STEP 10

ROUTE DROP HARNESS



Using the drop harness (419312), plug the 4-pin receptacle connector into the previously routed boom harness **22**. Plug the 2-pin plug connector into the 2-pin receptacle 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. Zip tie harness to ladder clip on sensor bracket.

Secure harness to riser with zip ties leaving enough slack around the spring.

Repeat for the remaining two drop locations.

STEP 11

RE-INSTALL HOSES



Reinstall the 360 Y-DROP hose, and if applicable, the 360 UNDERCOVER hose **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.

MONITOR SETUP

NORAC UC5 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.

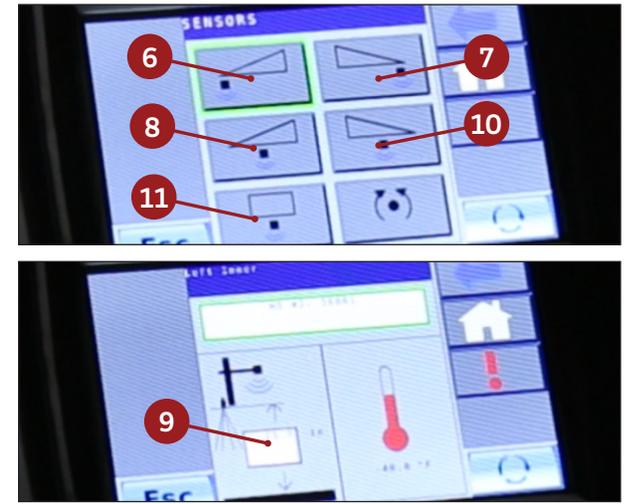
In the setup window that appears, select the sensor icon **5** to open the "Sensors" window.

AGLEADER INTEGRA DISPLAYS ONLY: Ensure that auto detect is turned off.

BEFORE THE NEXT STEP...

AGLEADER INTEGRA DISPLAYS ONLY: Set your measured height between 45-60 and later match your target height to the measured height setting.

STEP 3 360 GLIDE SENSORS SETUP



In the "Sensors" window, click on the L2 sensor icon **6** and ensure the NORAC sensor 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.

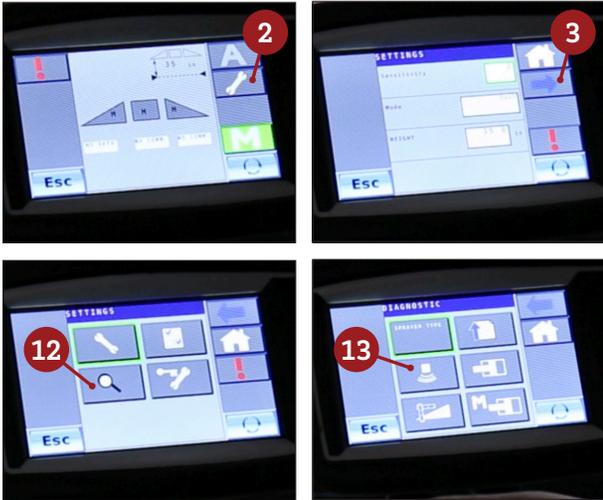
In the "Sensors" window, select the center section sensor icon **11** and select **36002** for the sensor. Change the height measurement to 12 inches.

MONITOR SETUP

NORAC UC5 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



AGLEADER INTEGRA DISPLAYS ONLY: Set your measured height between 45-60 and match your target height to the measured height setting.

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 inches) 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 its readings from the 360 GLIDE boom height sensors.

MONITOR SET UP COMPLETE