



## S600/2630 Display

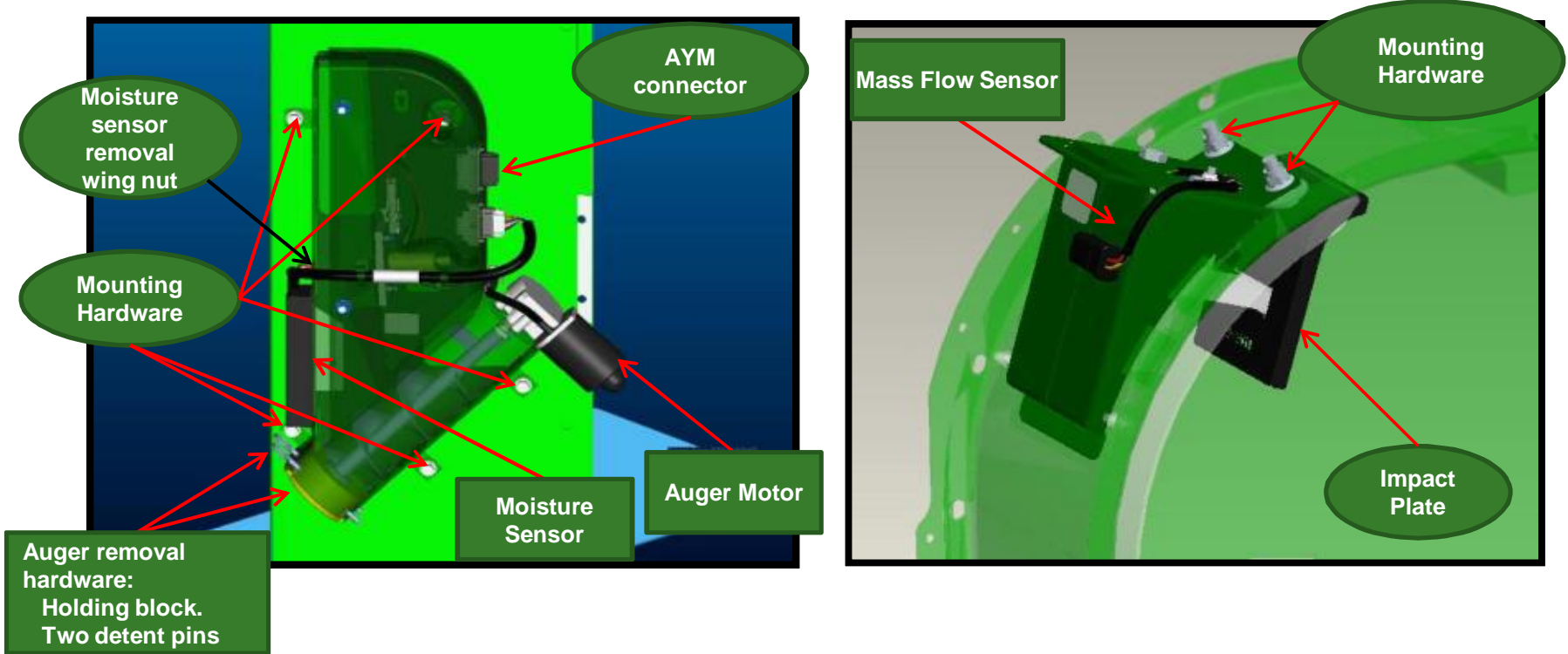
### Combine Yield Calibration Procedure

Temperature and Moisture  
Calibrations should be completed  
before attempting an accurate Yield  
Calibration.



**JOHN DEERE**

# Moisture & Yield System



- Moisture sensor is mounted within the Elevator Mount Unit on the side of the clean grain elevator.
- Mass Flow sensor is mounted on the transition housing, inside the grain tank.

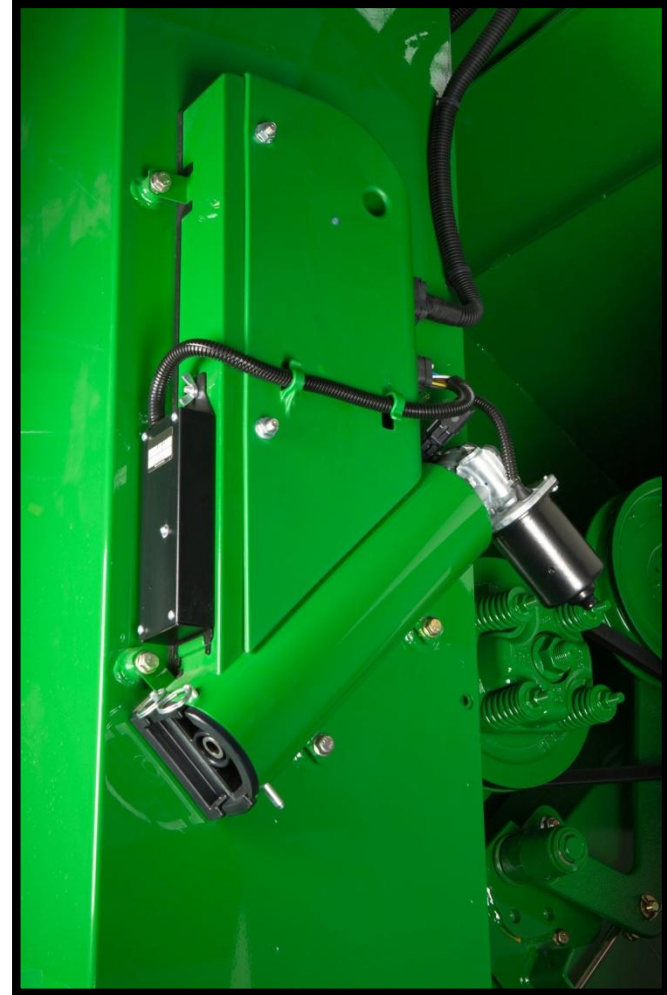
# Calibration Sequence

Temperature Calibration

Mass Flow Vibration Calibration

Moisture Correction and Calibration

Weight (Yield) Calibration



# Temperature Calibration

The reading should be an accurate measurement of the surrounding air temperature. Perform once a season and be sure the moisture meter is empty.

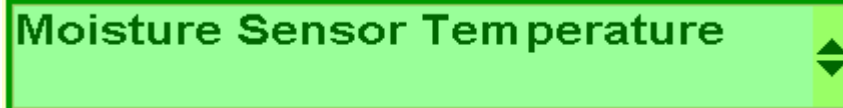
1. From the combine home page press B(book w/ wrench).



2. Next press G(triangle) for user calibrations.

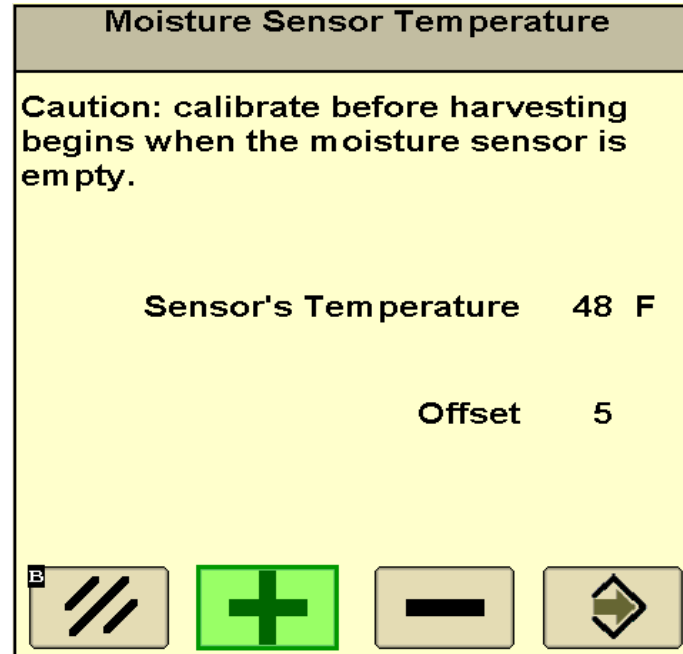


3. Select "Moisture Sensor Temperature" from the calibration list and press accept.



# Temperature Calibration

4. Use the “+” or “-” button until the sensor temperature matches the surrounding.



5. Select the “accept” button when complete.



# Mass Flow Vibration

Select the correct crop type as this calibration will be saved under the crop identified in the combine setup. Perform this calibration with the correct head on the combine in the harvest operating position. Perform in each crop type.

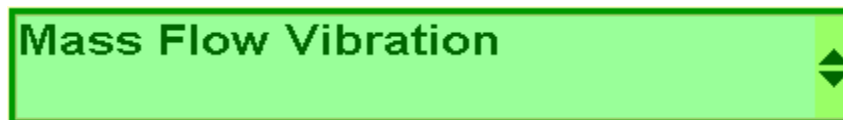
1. From the combine home page press B(book w/ wrench).






2. Next press G(triangle) for user calibrations.



3. Select "Mass Flow Vibration" from the calibration list and press accept.



# Mass Flow Vibration

Mass Flow Vibration	Mass Flow Vibration	Mass Flow Vibration
<p>You are about to perform the Mass Flow Vibration Calibration. The machine should be stationary and not harvesting. The engine should be running at normal harvesting n/min. The threshing system and feeder house should be engaged.</p>  	<p>Calibrating...</p> <p>Calibration may last up to 60 seconds.</p> <p>Please wait...</p>	<p>Calibration complete.</p> 

4. Follow the instructions in the calibration. Engage the header and separator, with the header in the harvesting position take the engine speed to high idle, be sure the header is not resting on the ground and the grain tank is empty.

Clean the Moisture Sensor Capacitance Plate at least once per season.





# Moisture Correction and Calibration

Temperature calibration should be performed before this correction. Ensure moisture sensor metal plates are clean at the beginning of each season. Plates may be cleaned with glass cleaner or water. Calibrate moisture for each grain type.

1. From the combine home page press H (arrow w/ dot above).



2. Then press D (percent w/ wave line) for "Moisture Setup".



# Moisture Correction and Calibration Cont'd.

3. Check mark the box labeled "Moisture Correction".

The screenshot shows the 'Combine - Setup Moisture' interface. It is divided into three main sections. The top section, titled 'Moisture Alarm', contains two radio buttons: 'ON' (unchecked) and 'OFF' (checked). Below these are two input fields: 'Minimum' with the value '1%' and 'Maximum' with the value '40%'. The middle section contains a checked radio button for 'Moisture Correction' next to a green-highlighted numerical input field containing '0.0', and an unchecked radio button for 'Fixed Moisture'. The bottom section, titled 'Yield Units', features a dropdown menu currently set to 'Bushels'.

4. Next be sure the numerical box reads 0.0, if it does not highlight and change. You may return to the combine home page if desired.

## Moisture Correction and Calibration Cont'd.

5. Harvest a load of grain and note the "Avg. moisture" on the Harvest Monitor. Example: 13%

6. Randomly sample the grain from several locations in the grain tank to collect an average moisture sample. Then measure the average moisture of this sample using an accurate/trusted moisture tester. Example: 12%

7. Return to the "Moisture Setup" page and enter the difference in the "Moisture Correction" numerical box. Example: Moisture tester (12%) minus the Combine displayed Average moisture (13%) equals -1.0.

# Moisture Correction and Calibration Cont'd.

Combine - Setup Moisture

**Moisture Alarm**

ON  OFF

Minimum  %      Maximum  %

Moisture Correction

Fixed Moisture

**Yield Units**

8. Repeat as necessary until satisfied.

- If moisture readings become erratic in high moisture grain, clean the moisture sensor with water or glass cleaner to remove build up from the metal (fin shaped) capacitance plates.

# Weight (Yield) Calibration

Things to know:

- Install AXE66411A or newer AYM software on the Moisture Sensor
- Perform Temperature and Moisture correction and Vibration Calibration before weight calibration.
- Calibration loads should be uniform in size and be a minimum of 3,000 lbs.
- For more accurate results use 2 calibration loads.
  - ✓ Harvest first calibration load at normal harvesting ground speed.  
Example: 5 mph.
  - ✓ Harvest second calibration load at  $\frac{1}{2}$  the ground speed of the first load.  
Example: 2.5 mph
- A maximum of 13 calibration loads can be saved for each crop type.
- Calibrate for each crop type.

# Weight (Yield) Calibration

Process:

1. From the Combine home page press B(wrench w/ book)



2. Next press G(triangle) for user calibrations.



3. Then select "Yield" from the list of calibrations and press "accept".



# Weight (Yield) Calibration

NOTE: This screen will be the first Yield calibration screen if there is no pending calibration.

This screen will allow the following options:

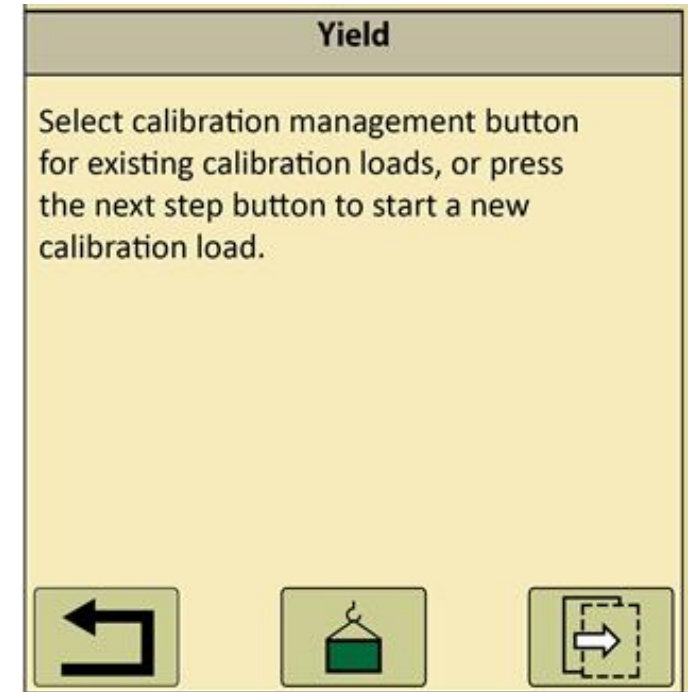
- Manage existing calibration loads



- Start new calibration load



- Cancel the calibration process

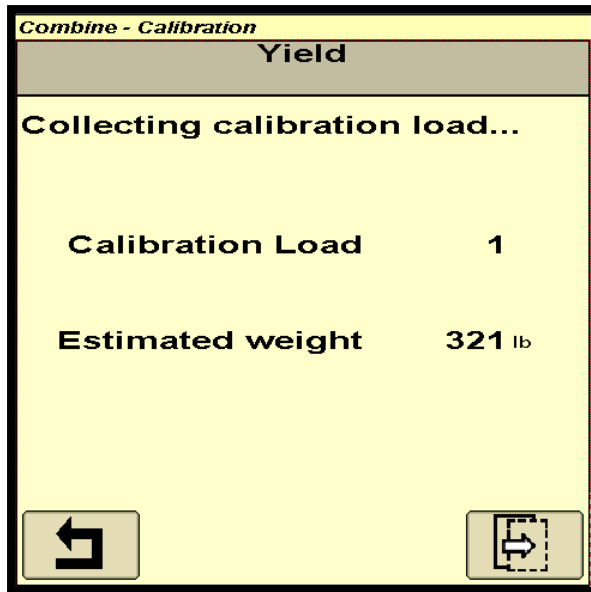


**4.** Select the “next” button to begin the calibration, be sure the grain tank is empty.



# Weight (Yield) Calibration

5. The display will list the first available load number. Begin to harvest, and unload only after accumulating 3,000 lbs. or more.



	Load ID	Estimated lb	Actual lb	%	
<input checked="" type="checkbox"/>	1	11348 23.4 %	10980	3.4	<input type="checkbox"/>
<input type="checkbox"/>	2	9663 25.0 %	9874	-2.1	<input type="checkbox"/>
<input type="checkbox"/>	3	13611 23.9 %	13956	-2.5	<input type="checkbox"/>
<input type="checkbox"/>	4	11330 24.2 %	11120	1.9	<input type="checkbox"/>
<input type="checkbox"/>	5	13301 16.6 %	13214	0.7	<input type="checkbox"/>

The screenshot shows the 'Yield' calibration table with five rows. Each row contains a checkbox, a Load ID, Estimated lb (with a percentage), Actual lb, a percentage, and another checkbox. The first row is highlighted with a green background. At the bottom, there are three navigation buttons: a left arrow, a downward arrow, and a tree icon.

6. Unload and record the actual scaled weight. Select the "next" button and enter the "Actual" scale weight in the numerical box.



# Weight (Yield) Calibration

7. Return to the "Yield calibration" page by pressing the "return" icon. Press the "next" icon and repeat steps 4 through 7 at different ground speeds.



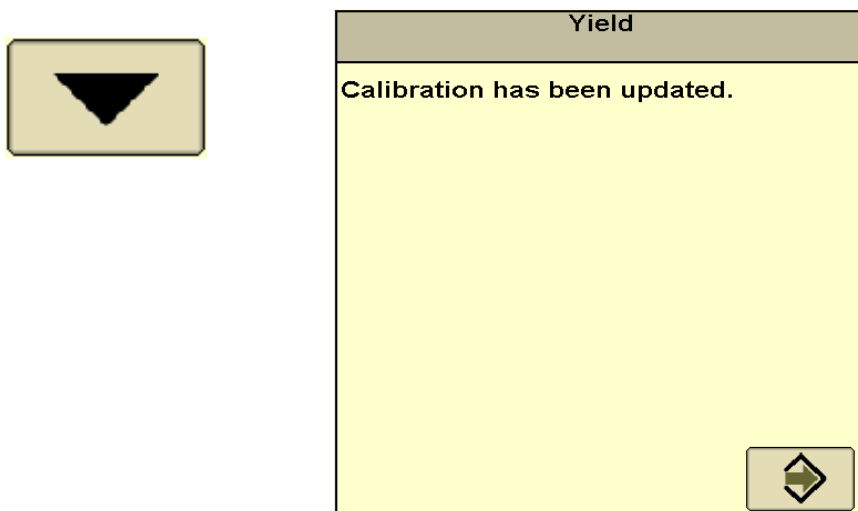
8. After completing your calibration loads return to the "Calibration Management" screen and check mark the boxes next to the load ID numbers with the "%" between the range of -3.0 and 3.0.

Yield					
	Load ID	Estimated lb	Actual lb	%	
<input type="checkbox"/>	1	11348 23.4 %	10980	3.4	<input type="checkbox"/>
<input checked="" type="checkbox"/>	2	9663 25.0 %	9874	-2.1	<input type="checkbox"/>
<input checked="" type="checkbox"/>	3	13611 23.9 %	13956	-2.5	<input type="checkbox"/>
<input checked="" type="checkbox"/>	4	11330 24.2 %	11120	1.9	<input type="checkbox"/>
<input checked="" type="checkbox"/>	5	13301 16.6 %	13214	0.7	<input type="checkbox"/>

Navigation icons: Return (left arrow), Down arrow, Home (house icon).

## Weight (Yield) Calibration

9. Now press the “Calibration” icon(triangle). Once the calibration has completed updating press the “accept” icon to exit.



10. To delete unwanted calibration loads or make space for new loads press the “delete” icon next to the corresponding load ID. This will permanently delete the calibration load.



# Weight Calibration Helpful Hints

- Make sure the moisture meter and mass flow sensor are clean before calibration.
- Complete as much of the documentation setup in the display as possible before harvest.
- Calibration loads should be completed near the same time, once per season per crop.
- Treat wet corn  $>20\%$  and dry corn  $<20\%$  as separate crops.
- Calibrate in as uniform crop as possible, avoid calibrating when opening up a field.
- Calibrate to an accurate reference scale.
- Check/confirm calibrations from time to time during the season.
- Do not unload on the go while calibrating.

## Additional Information

This is intended to be a Quick Reference for completing Yield calibrations on S Series Combines.

If additional problems exist, reference the “Ready To Harvest Guide on Yield Accuracy” on your GoHarvest App.

For more detailed instructions, please consult the Operators Manual or contact your John Deere dealer.



**JOHN DEERE**

