

S-Series Combines

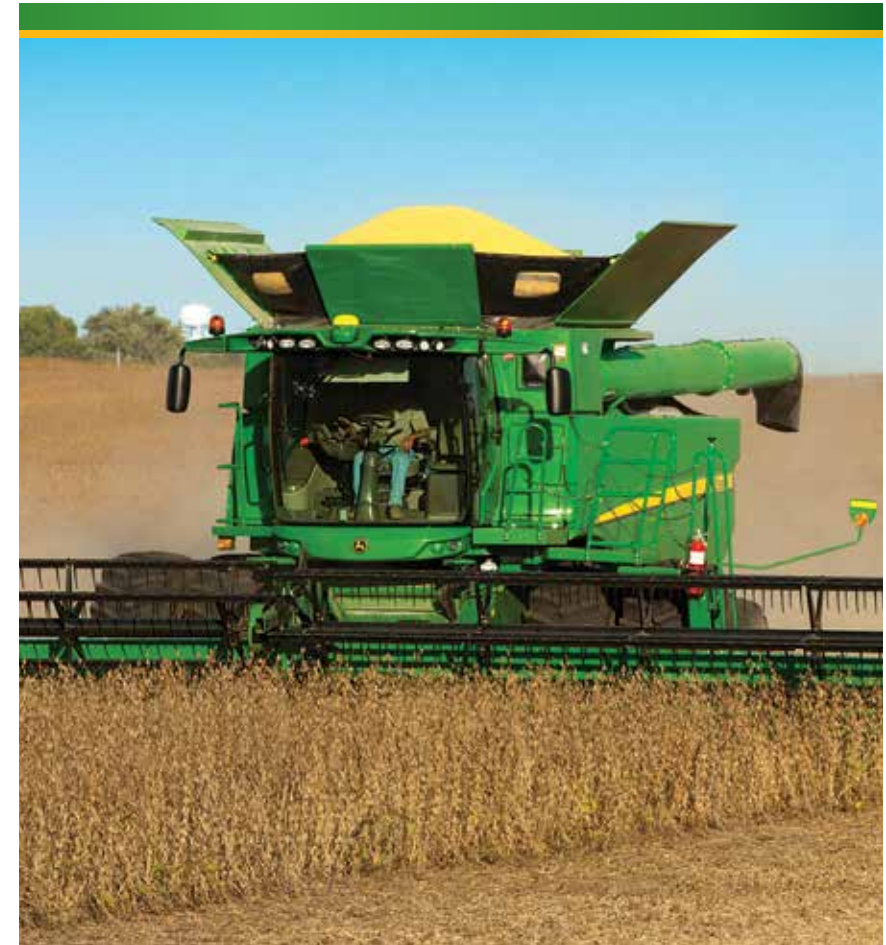


Weight Calibration Helpful Hints

- 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 and dry corn 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 form 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. For further and more detailed instructions, please consult the Operators Manual or contact your John Deere dealer.



Yield Calibration Procedure S-Series Combines

Quick Reference Guide

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

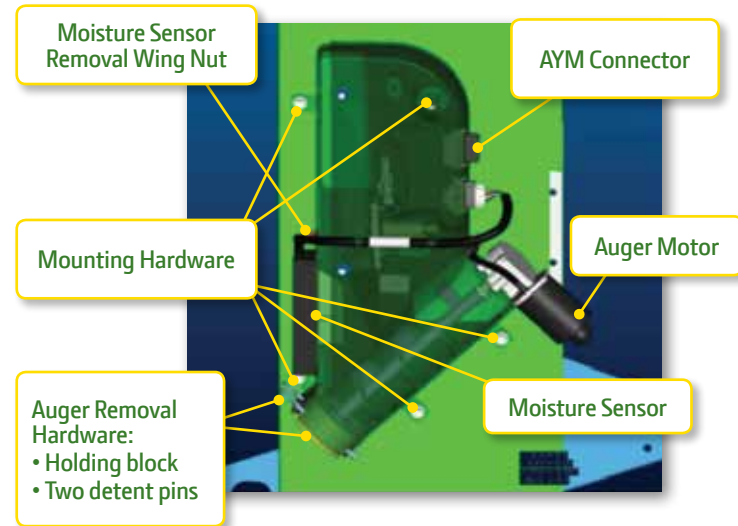


HXE70488 (13-07)
Printed in U.S.A.

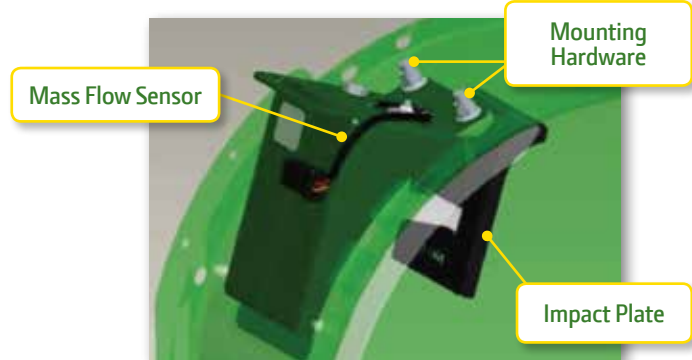
S-Series Combines

Moisture and 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.



S-Series Combines

Calibration Sequence

- 1 Temperature calibration
- 2 Mass Flow Vibration calibration
- 3 Moisture Correction and calibration
- 4 Weight (yield) calibration



S-Series Combines

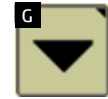
1 Temperature Calibration

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**.



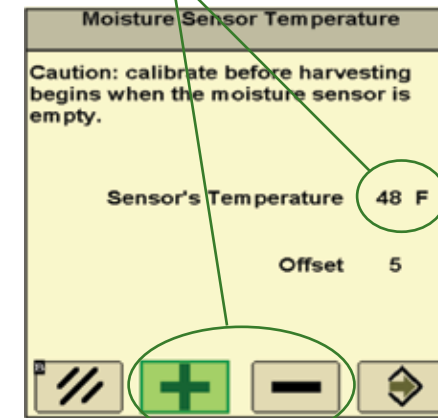
2. Next press **G** for user calibrations.



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



4. Use the **"+"** or **"-"** button until the sensor temperature matches the surrounding.



5. Select the **accept** button when complete.



Yield Calibration Procedure S-Series Combines

2 Mass Flow Vibration Calibration

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.

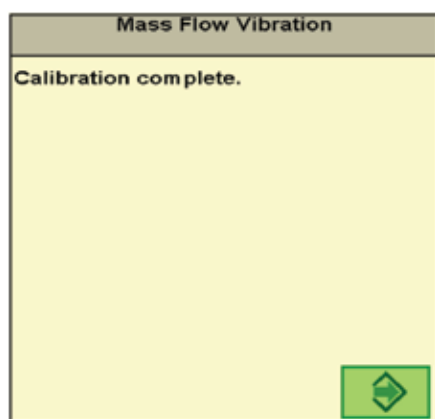
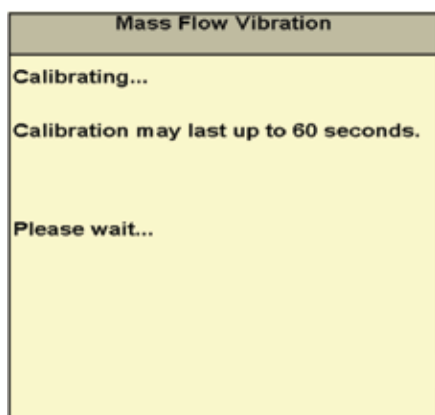
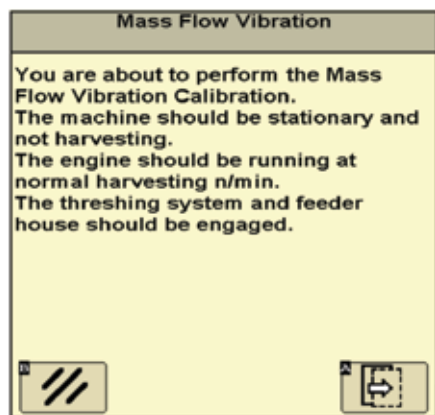
1. From the combine home page press **B**.



2. Next press **G** for user calibrations.



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



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.

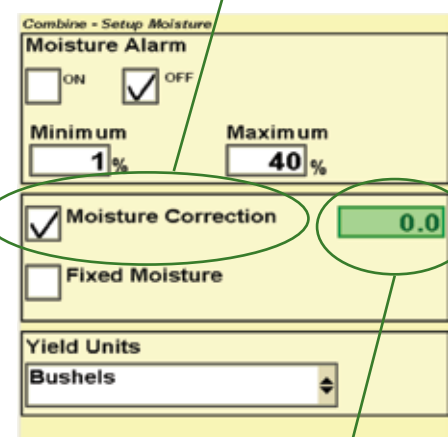
3 Moisture Correction and Calibration

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**. 2. Then press **D** for "Moisture Setup".



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

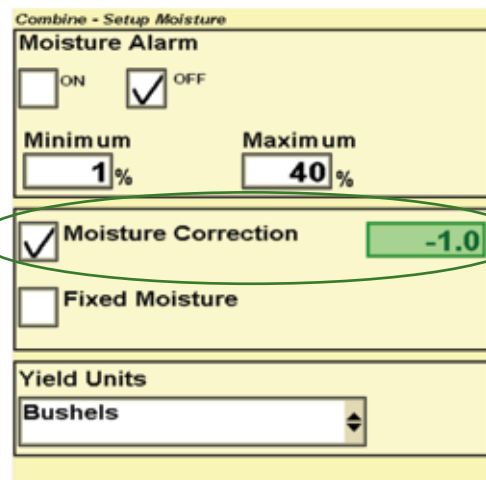


4. Next be sure the numerical box reads **0.0**, if it does not highlight and change. You may return to the combine home page if desired.

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.



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.

Moisture Meter Capacitance Plate



4 Weight (Yield) Calibration

Things to know:

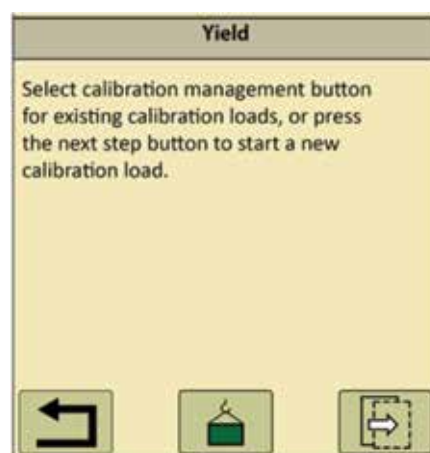
- Perform Temperature and Moisture correction before Weight calibration.
- Calibration loads should be uniform in size and be a minimum of 3,000 lbs.
- A maximum of 13 calibration loads can be saved for each crop type.
- For more accurate results use 4 to 8 calibration loads.
- Harvest each calibration load at a different flow rate (ground speed). Example: 2, 3, 4, or 5 mph.
- Calibrate for each crop type.

Process:

1. From the combine home page press **B**.
2. Next press **G** for user calibrations.
3. Then select "Yield" from the list of calibrations and press "accept".



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

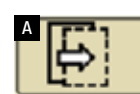


This screen will allow the following options:

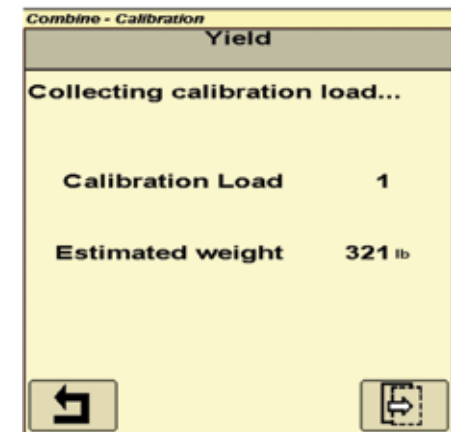
- Manage existing calibration loads
- Start new calibration load
- Cancel the calibration process



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



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



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

Load ID	Estimated lb	Actual lb	%
1	11348 23.4%	10980	3.4
2	9663 25.0%	9874	-2.1
3	13611 23.9%	13956	-2.5
4	11330 24.2%	11120	1.9
5	13301 16.6%	13214	0.7

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.

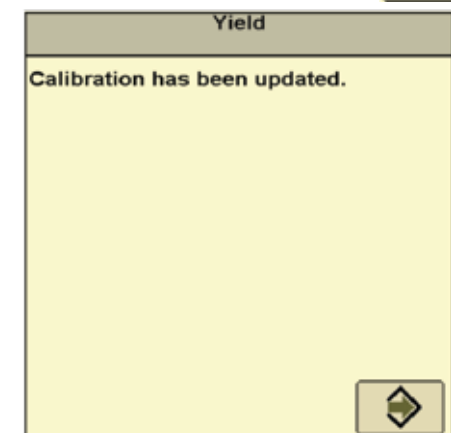


8. After completing your calibration loads return to the "Calibration Management" screen and check mark the boxes next to the load ID numbers with the "%" between the range of -3.0 and 3.0.



Load ID	Estimated lb	Actual lb	%
1	11348 23.4%	10980	3.4
2	9663 25.0%	9874	-2.1
3	13611 23.9%	13956	-2.5
4	11330 24.2%	11120	1.9
5	13301 16.6%	13214	0.7

9. Now press the "Calibration" icon.



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 cal load.

