

Calibration

General Calibration Information

The mass flow sensor must be calibrated in order to achieve accurate grain weight measurement. Standard Calibration procedure must be performed in every crop that is harvested. In addition, optional Low Flow Compensation procedure may be performed to obtain an improved level of accuracy in situations where there are large variations in grain flow rate.

The following paragraphs describe different screen sections on SETUP - YIELD MON - PAGE 2 that are used in calibration procedure.

Flow Comp Number - Screen Section C

The FLOW COMP NUMBER screen is an optional means of improving accuracy. This information will be updated automatically by optional Low Flow Compensation procedure.

To disable Low Flow Compensation, enter this number as 1.00 using following procedure:

1. Press C.
2. Using numeric keypad, input 1.00.
3. Press C to ENTER this value.

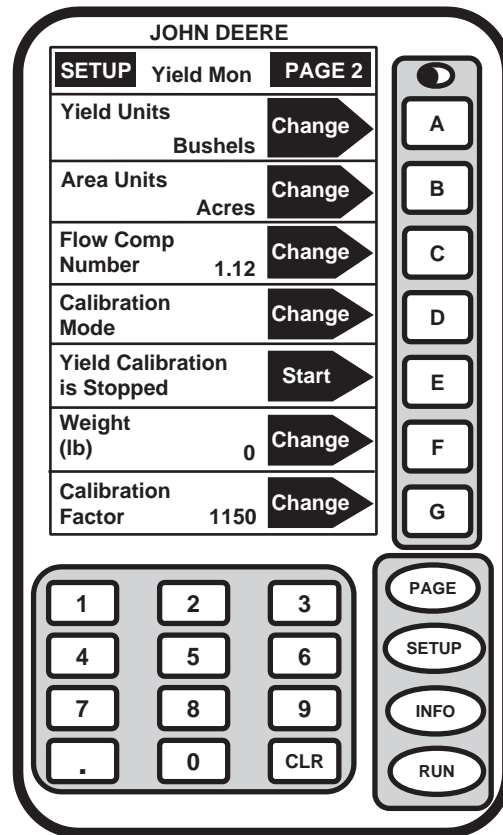
Calibration Mode - Screen Section D

This screen indicates whether Standard Calibration procedure or optional Low Flow Compensation procedure is to be performed.

Press D. Text will toggle between Calibration Mode and Low Flow Comp Mode.

Yield Calibration - Screen Section E

This screen allows calibration procedure indicated in Screen Section D to be started or stopped.



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Weight - Screen Section F

This screen allows scale weight to be entered after a calibration run is complete (during calibration run, indicates approximate weight of grain that has been harvested).

Calibration Factor - Screen Section G

The value shown here allows mass flow sensor to read accurately. This value will be updated automatically by Standard Calibration procedure. This value can also be adjusted manually.

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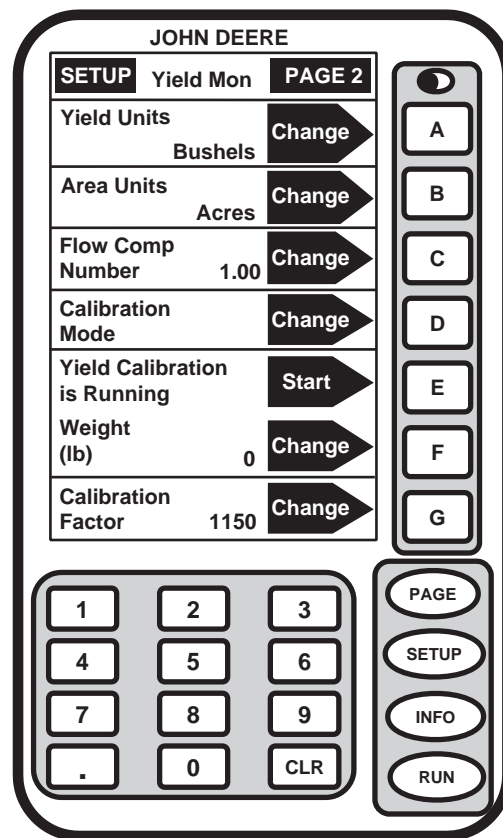
Standard Calibration Procedure

IMPORTANT: Before calibrating be sure that combine grain tank and unloading auger tube are empty. Be sure that wagon or truck hauling grain away from combine is empty.

The yield monitor/mapping system can be accurate only if operator follows correct calibration procedures.

The following procedures should be performed at ground speed in which operator expects to run in this crop and condition, and in an area that is reasonably level and of uniform yield.

1. Press D to select Calibration Mode.
2. Press E. Display will change to: Yield Calibration is running.



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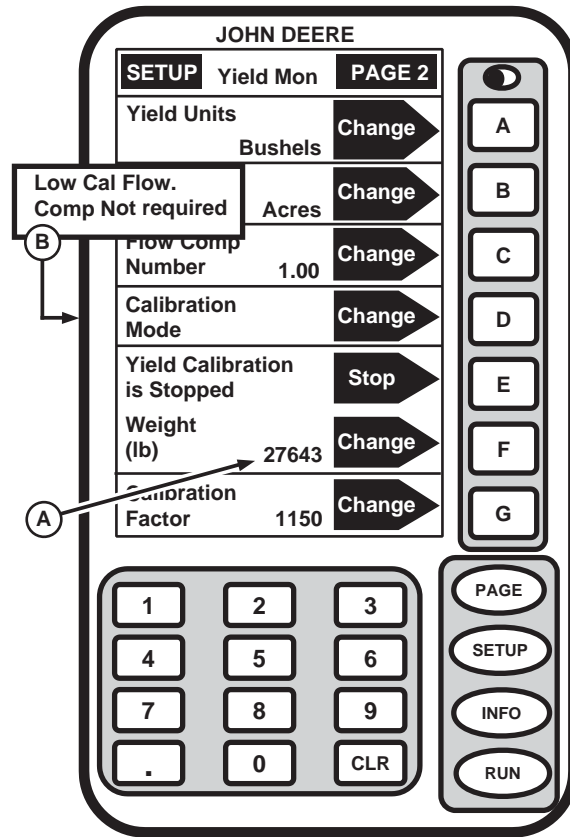
3. Begin harvesting. Weight displayed at (A) in Yield Calibration should increase while harvesting.
4. Harvest known amount of grain (i.e. grain tank full, truck load, wagon load, etc.).
5. When known load is completed, stop machine and allow all harvested grain to enter grain tank.

NOTE: Message (B) with the following information may appear in Screen Section D: Low Cal Flow Comp NOT required. If this message appears, flow rate during calibration was very low. Therefore, it is neither necessary nor possible to perform optional Low Flow Compensation procedure. Standard Calibration procedure is sufficient.

6. Press E to stop calibration. Display will change to Yield Calibration is Stopped.

IMPORTANT: Be sure to empty grain tank completely and be certain all grain is on one vehicle (wagon or truck).

7. Have known amount of grain weighed. While waiting for scale ticket to return, you may continue by pressing RUN.
8. When scale ticket returns to combine, go to SETUP - YIELD MON - PAGE 2.
9. Press F to change weight value. Black arrow will toggle to ENTER.
10. Using numeric keypad, input Net Weight of Grain from scale ticket.



A—Weight
B—Message

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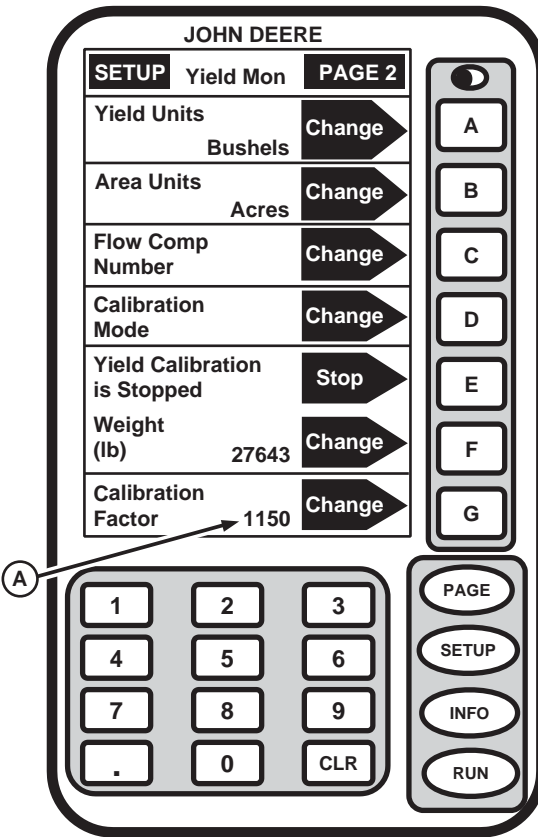
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IMPORTANT: Standard calibration procedure will not change data already saved. After changes are made, all harvest information collected from that point on will reflect changes.

NOTE: If scale ticket weight is more than 50% higher or lower than displayed weight, system will NOT allow entry of scale weight. It is recommended that you review harvesting procedures and verify vehicle hauling grain away from combine is also following correct procedures. At that time, repeat calibration procedures.

11. Press F to ENTER new value. Calibration Factor (A) will change automatically when grain weight is entered.

A—Calibration Factor



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Optional Low Flow Compensation Procedure

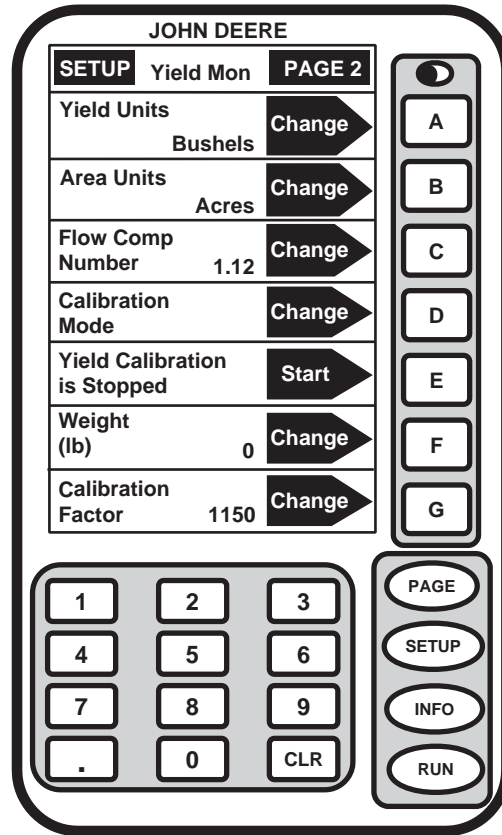
IMPORTANT: Do NOT perform a manual adjustment of calibration factor if you intend on using Low Flow Compensation procedure.

The following procedure should be performed only after Standard Calibration procedure has been performed for this crop and condition. While procedure is optional, it will produce accurate results only if it is followed carefully.

The procedure should be performed at approximately one-half to two-thirds of ground speed at which Standard Calibration procedure for this crop and condition was run and in an area that is reasonably level and uniform in yield.

IMPORTANT: Be sure combine grain tank and unloading auger are empty. Be sure wagon or truck hauling grain away from combine is empty.

1. Press D to select Low Flow Comp Mode.
2. Press E. Display will change to: Yield Calibration is Running.



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