Harvest Checklist

AFX10/10/20/X230/X240 Series Axial-Flow Combines equipped with the AFS Pro 600 or AFS Pro 700 display

The following are the basic steps required to start harvesting:

NOTE: Verify that a supported data storage device (data card or USB flash drive) is installed before powering the display and performing any setup operations.

1. Check display time and date, and ensure that the interface level is set to "Advanced".
   ⟩ Home > Toolbox > Display

2. Create an operator and select the desired units of measurement.
   ⟩ Home > Toolbox > Operator

3. Select the appropriate header settings, including Maximum Working Height, for each crop type.
   ⟩ Home > Toolbox > Head 1

4. Set GPS configuration (if equipped)
   ⟩ Home > Toolbox > GPS

5. Verify flow sensor deflector plate clearance, then enter Flow Sensor Calibration Number (MY2007 and prior only). Verify Flow Delay value.
   ⟩ Home > Toolbox > Yield

6. Set up Growers, Farms, and Fields, then create a Task and assign the proper Crop Type to the Task.
   ⟩ Home > Performance > Profile   OR   RUN 2

7. Check Crop Trade Moisture and Crop Trade Weight windows.
   ⟩ Home > Calibrations > Crop

8. Calibrate tire radius
   ⟩ Home > Calibrations > Distance

9. Harvest a sample of the grain and ensure that the combine is functioning correctly
   ⟩ Home > Run

10. Calibrate the moisture sensor.
    ⟩ Home > Calibrations > Moisture

11. Harvest Calibration Tasks at different flow levels and then calibrate yield sensor.
    ⟩ Home > Calibrations > Yield

12. Repeat the moisture and yield calibration process for each Crop Type.

Yield Monitor Calibration Tips

AFX10/10/20/X230/X240 Series Axial-Flow Combines equipped with the AFS Pro 600 or AFS Pro 700 display

BEFORE YOU BEGIN!
- Before attempting yield monitor calibrations, ensure that all machine systems are operating correctly.
- Identify and resolve any mechanical, hydraulic, electrical, or other problems before proceeding.
- Remove any existing data from the AFS display before beginning the new harvest season.
- Verify display date (Toolbox > Display)
- Ensure that the Season Setup date (Toolbox > PF) is at JANURAY 1ST.
- Perform new calibrations for each season and for each Crop Type.
- You can set the calibration to default by going to Calibrations > Crop

Perform calibrations in the order in which they are described below:
1. Distance Calibration (Calibrations > Distance)
2. Moisture Calibration (Calibrations > Moisture) *Calibration Wizard is recommended.*
3. Yield Calibration (Calibrations > Yield) *Calibration Wizard is recommended.*

Distance Calibration:
- Measure out a 400-foot course with flags. When driving the course, drive as straight as possible. For best results, have the header attached and grain tank half-full.

Moisture Calibration:
- Create a new Task to use for calibration, and continue harvesting into this moisture calibration Task until your Instant and Average Moisture values on the display are within 2% of each other.
- When obtaining Actual Moisture, use a single, trusted moisture measuring device, and average at least 5 samples from throughout the Task.
- From all Tasks harvested through the Wizard, select up to 3 Tasks to use for moisture calibration. Ensure the "% Error" values for the selected Tasks are closely grouped. Do not include outliers.
- Use a maximum of 3 Tasks for moisture calibration.

Yield Calibration:
- Ensure that all Tasks used for yield calibration vary by no more than 5% from a predetermined target weight. The target weight must be no less than 3000 lbs. The recommended target weight is 10,000 lbs.
- Maintain a consistent flow rate within each Task (i.e. Low OR Medium OR High in a Task, but not all three in one Task.
- When obtaining Actual Weight, use a single, trusted scale device.
- From all Tasks harvested through the Wizard, select up to 10 Tasks to use for yield calibration (5 is best). Ensure the "% Error" values for the selected Tasks are closely grouped. Do not include outliers
- Ensure that Low, Medium, and High flow Tasks are included in the calibration. If a flow rate range is missing from the calibration, the yield monitor system will be less accurate in that flow range.

Harvest Checklist

2x00 / x088 / x130 / x140 Series Axial-Flow Combines equipped with the AFS Pro 600 or AFS Pro 700 display

The following are the basic steps required to start harvesting:

NOTE: Verify that a supported data storage device (data card or USB flash drive) is installed before powering the display and performing any setup operations.

1. Check display time and date, and ensure that the interface level is set to "Advanced".
   ∫ Home > Toolbox > Display

2. Create an operator and select the desired units of measurement.
   ∫ Home > Toolbox > Operator

3. Select the appropriate header settings, including Maximum Working Height, for each crop type.
   ∫ Home > Toolbox > Header or Head 1

4. Set GPS configuration (if equipped)
   ∫ Home > Toolbox > GPS

5. Verify flow sensor deflector plate clearance, then enter Flow Sensor Calibration Number (2x00 series combines only). Verify Flow Delay value.
   ∫ Home > Toolbox > Yield

6. Set up Growers, Farms, and Fields, then create a Task and assign the proper Crop Type to the Task.
   ∫ Home > Performance > Profile   OR   RUN 2

7. Check Crop Trade Moisture and Crop Trade Weight windows.
   ∫ Home > Calibrations > Crop

8. Perform distance calibration
   ∫ Home > Calibrations > Distance

9. Harvest a sample of the grain and ensure that the combine is functioning correctly
   ∫ Home > Run

10. Calibrate the moisture sensor.
    ∫ Home > Calibrations > Moisture

11. Harvest Calibration Tasks at different flow levels and then calibrate yield sensor.
    ∫ Home > Calibrations > Yield

12. Repeat the moisture and yield calibration process for each Crop Type.
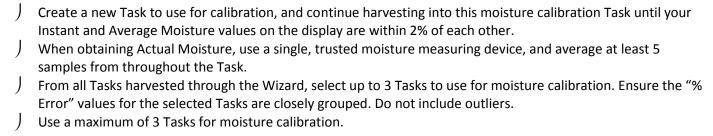
Yield Monitor Calibration Tips

2x00 / x088 / x130 / x140 Series Axial-Flow Combines equipped with the AFS Pro 600 or AFS Pro 700 display

BEFORE YOU BEGIN!
- Before attempting yield monitor calibrations, ensure that all machine systems are operating correctly.
- Identify and resolve any mechanical, hydraulic, electrical, or other problems before proceeding.
- Remove any existing data from the AFS display before beginning the new harvest season.
- Verify display date (Toolbox > Display)
- Ensure that the Season Setup date (Toolbox > PF) is at JANURAY 1ST.
- Perform new calibrations for each season and for each Crop Type.
- You can set the calibration to default by going to Calibrations > Crop

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Moisture Calibration:
- Create a new Task to use for calibration, and continue harvesting into this moisture calibration Task until your Instant and Average Moisture values on the display are within 2% of each other.
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- From all Tasks harvested through the Wizard, select up to 10 Tasks to use for yield calibration (5 is best). Ensure the "% Error" values for the selected Tasks are closely grouped. Do not include outliers
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Data Management for the AFS Pro 600 / 700

It is recommended to follow the procedure below at the start of each season. This will ensure that the display continues to run efficiently and that data from the previous season is properly backed up.

1. Remove the memory device from the display (with the display powered down).
2. Archive the data from the memory device to a PC.
   a. Insert memory device into PC
   b. In 'Windows Explorer' or 'My computer', find the folder on the memory device. It will be the file folder with a '.cn1' at the end of it.
   c. Copy and paste it to your desired location on the PC.

At this point if you are using variety tracking, skip to below.

3. Format the memory device using FAT 32.
   a. In 'Windows Explorer' or 'My computer', right click on the drive letter containing the memory device and choose 'Format'
   b. Choose 'FAT 32' in the 'File System' drop down box.
   c. Click the 'Start' button to start formatting the drive.
   d. A confirmation window appears. Click 'OK' to begin formatting the drive.
4. Take memory device to machine. Do not insert the memory device into the display at this time.
5. Delete the tasks on the display. By deleting only the tasks, the Grower, Farm and Field names remain intact as well as guidance swaths.
   a. From the home screen choose Data Management.
   b. Select the Delete tab on the bottom of the screen.
   c. In the Data Management > Delete screen, choose Task in the Data Type selection pick-list.
   d. Choose All for Operation, Grower, Farm, Field and Task to ensure all tasks are removed from the display.
   e. Select the Delete button.
   f. A confirmation window appears. Click Yes to confirm the task deletion.
6. With the display powered down, insert the blank memory device back in the display.
7. Return the unit to service.

Use the following steps if using Variety Tracking
1. Load memory device with variety tracking file. (TruAcre offers this service if you don't have the resources)
2. Take memory device to machine. Do not insert the memory device into the display at this time.
3. Delete all fields
   a. Home > Data Management > Delete
   b. Choose Grower in the Data Type pick-list.
   c. In the box below select All.
   d. Select the Delete button at the top.
   e. A confirmation window appears. Click Yes to confirm the task deletion.
4. With the display powered down, insert the memory device back in the display.
5. Return the unit to service.