Pre-Harvest Checklist

InSight™ Display Preparation

- Create a backup of your spring information. Go to Setup/Console menu to create a backup. Select Copy All Files to save the spring data to the memory card.
- Make sure your InSight display firmware, manual and all connected modules are up-to-date. Firmware and manual updates can be found on our Web site under Support.
- If you have purchased a new combine or new heads, create new configurations for any setup that is different from last fall. Remove all old configurations.

Vehicle Inspection

- Check to make sure all cables are properly attached and in good condition.
- Remove flow sensor and inspect for damage.
- Check the elevator deflector and impact plate for wear. Verify you have the proper clearance at the top of the clean grain elevator. Clearance should be between 3/8" and 5/8".

Sensor Calibrations

* For step-by-step instructions on how to do these calibrations, consult the Grain Harvest section of the InSight Display Manual.

Calibrate stop height. This will set the height when the InSight display stops recording area as the header is raised at the end of the pass. Stop height calibration is required for each grain type.

Run a distance calibration. This will calibrate the ground speed sensor connected to the InSight display. (Note: If you are using GPS speed as the primary speed sensor, you will still need to calibrate the backup sensor.)

Calibrate temperature. This will set the temperature offset to help provide a correct moisture reading.

Run a vibration calibration. The vibration calibration is used to compensate for the amount of force that is being measured by the flow sensor with no grain flow.

Calibrate moisture. This will set the moisture offset to help provide accurate moisture and yield readings. Moisture calibration is required for each grain type.

Calibrate grain weight. If done correctly, this will provide accurate yield readings across all flow ranges. Calibration is required each year and for each grain type. See "Calibration Tips" for suggestions to ensure a quality weight calibration.

Calibration Tips

- Harvest four to six calibration loads, selecting a different flow rate for each. To obtain various flow rates, adjust speed or swath width. Do not vary both options at the same time.
- Combine each load as consistently as possible, at the selected flow rate.
- Use the same weight scale device for each load, consistent calibration loads of 3,000 to 6,000 lbs. provide the best results.
- Identify each calibration load by harvest speed, number of rows or bushels per hour to recall how it was harvested.

DirectCommand Pre-Season Preparation

Version 5.5 Update Notice: In the latest firmware update, users now have the ability to specify low container warning levels in the Fill/Empty Menu. DirectCommand interfaces with the Raven Sidekick chemical injection pump; the InSight display and CAN module will replace the Sidekick console and connect directly to the injection pump. Also, Smart Report now includes the farm name.

Liquid Applicaiton

Flow Meter - Remove the flow meter from the sprayer and have your application dealer calibrate. They will be able to calibrate the flow meter on a test stand and make any changes to the cal number as needed.

Control Valve - Enter manual speed and target rate into the InSight display. Use Manual Valve Control to open and close the control valve.

Boom Valves - With the same manual speed and rate entered, make sure the master switch is on and turn on each individual boom switch. The blue lights on the Run Screen should indicate when each valve is supplied 12v to open.

Sprayer Nozzles - Check the sprayer manufacturer's nozzle chart to make sure that the flow rate and the pressure desired is attainable.

Rate Control - With the tank full, select Rate 1 and make sure the sprayer will lock on Rate 1. Then select Rate 2 and make sure the rate will lock on to Rate 2. If the rate jumps around or takes a long time to stabilize, refer to the header titled "Troubleshooting DirectCommand Liquid Applications" in the Application section of the InSight display manual.

Pressure Sensors - Under the Controller Settings tab in the InSight display, select which pressure sensor needs to be calibrated. Proceed with the Pressure Sensor Calibration Wizard using the InSight display. Make sure to have the pump turned off and use 0 PSI for the pressure value. Enter the voltage / pressure ratio. For Raven pressure sensors the voltage/pressure ratio is 16 mV/PSI.





Granular Application

- Use the Automated Calibration Wizard to calibrate your CFR setting.

- If controlling spinner speed, make sure Automatic Control is checked and the proper settings are entered under the Spinner tab of the Controller Settings button.

- For spreaders, it's recommended that a spread pattern test be performed before the start of the application season. Contact the manufacturer of the spreader bed for details.