First Time Startup (Grower / Field Management)

Note: You must perform the initial Grower/Field Management section before you can perform any operation on the Insight display.

Power on the Insight by pushing the **WHITE POWER BUTTON**, which can be found on the back lower left hand corner of the display		
	Press the **SETUP** button to begin your initial setup (located on the right hand side of the display.)	
Step 1	Press the **GROWER/FIELD MANAGEMENT** button.	
Step 2	To add a new Grower to the system, press the **ADD** button under the Grower tab.	
Step 3	Press the **NEW** button to begin adding grower information	
	3a	Press the **KEYBOARD** button to enter a Business name. (If you are using desktop software it is recommended to use the same names as in the software.)
	3b	Once you have entered the Business name push the **ACCEPT** button to return to the Business/Person Setup screen. Press the **NEXT** button.
	3c	Type the first and last name of the contact person for the Business using the keyboard on the display.
	3d	Press the **FINISH** button when finished entering information for the current grower.
	3e	If you wish to add additional growers, return to step 3 above. If you are done entering growers, proceed to step 4.
Step 4	Select the **SEASON** tab.	
	4a	Press the **NEW SEASON** button.
	4b	Use the name provided or enter a name of your choice.
	4c	Press the **ACCEPT** button when finished.

Step 5	Select the **FIELD** tab.	
	5a	Verify that the current grower is displayed in the Grower Window. If the current grower is not displayed, choose the correct one from the list.
	5b	To enter farms and fields, press the **ADD** button. Select a farm from the list and proceed to step 5d, or press the **NEW** button to enter a new farm name.
	5c	Select the Farm Owner from the list and press the **NEXT** button. If the Farm Owner is not listed, press the **NEW** button to add them. Once the Farm Owner is selected press the **NEXT** button. Enter a Farm Name and press the **FINISH** button. Select the Farm and press the **NEXT** button.
	5d	Press the **NEW** button to add fields to the farm. Use the keyboard to type the field name and then press **ACCEPT**. Repeat this step until all fields are entered for the farm.
	5e	Press the **FINISH** button when finished. If you have additional fields, it is recommended to enter them all at this time.
Step 6	Once finished with Grower/Field Management setup you may press the **SETUP** button to return to the setup screen or the **Run** button to proceed to the main operating screen.	

Harvest Setup

Note: The setup wizard built into the Insight will guide you through the steps listed below.

HARVEST CONFIGURATION		
	Press the **SETUP** button to begin your initial setup (located on the right hand side of the display.)	
Press the **HARVEST** button to enter the harvest configuration screen.		
Press the **ADD** button to start the setup wizard to create a new configuration.		
Step 1	Combine Setup - Select the desired combine from the list then press **NEXT** and proceed to step 2**.** If your vehicle is not listed press the **NEW** button and proceed to 1a.	
	1a	Select the correct Make and Model from the list and press the **NEXT** button.
	1b	If the combine name is correct, proceed to step 1c. To change the name, press the **KEYBOARD** symbol. Once finished press the **ACCEPT** button.
	1c	Once the combine is defined press the **FINISH** button.
Step 2	Select the desired header from the list then press **NEXT** and proceed to step 3**.** If your header is not listed press the **NEW** button and proceed to 2a.	
	2a	Select correct Header Type and press the **NEXT** button.
	2b	Enter appropriate swath, cut width, or number of rows and row spacing, depending on the type of header being used. When finished, press the **NEXT** button to proceed
		Note: When using a platform it is recommended to set platform width to one foot less than actual width
	2c	If the header name is correct, proceed to step 2d. To change the name, press the **KEYBOARD** symbol. Once finished, press the **ACCEPT** button.
	2d	Once the header is defined press the **FINISH** button.
Step 3	The Configuration name will default to a name based on your previous configuration settings. If you would like to edit the name press the **KEYBOARD** button and type the preferred name. Press the **ACCEPT** button when finished, then press **NEXT.**	
Step 4	Select the desired Ground Speed Source. WHEEL will be the default primary speed source, and must be calibrated. If you want to use GPS speed, select it from the drop-down menu. If you select GPS as your primary speed sensor you will be asked to select a secondary speed sensor. Press **FINISH** to save configuration.	

Crop Configuration		
Step 1	**1a**	Select the **CROPS** tab in the Harvest menu to setup your crops.
	1b	Press the **ADD CROP** button to begin the Harvest Crop Wizard.
	1c	Select the appropriate Crop Type from the list and press **NEXT**.
	1d	Press **NEXT** to accept the name for this crop.
	1e	(Optional) If you would like to create varieties press the **ADD** button and type a name for the variety. Press **FINISH**.
Step 2	If you would like to create varieties to an *existing* crop (*Optional*)	
	2a	Select the **ADD VARIETY** button to begin the varieties wizard.
	2b	Choose the appropriate crop from the drop down menu that you want to add variety names to. Press **NEXT**
	2c	Select the **KEYBOARD** button to the right of the manufacturer name and then type in the appropriate name. Press **ACCEPT** when done.
	2d	Select the **KEYBOARD** button to the right of the hybrid name and then type in the appropriate hybrid name. Press **ACCEPT.**
	2e	When the manufacturer name and hybrid name are correct then choose **FINISH.**

OPERATION		
Step 1		Press the **RUN** button to enter your main operating screen (located on the lower right hand side of the display.)
Step 2	Press the **FIELD** button to select which field you will be logging to, the operating configuration being used, and the crop being harvested.	
	2a	Select the appropriate Field, Operating Configuration, and Crop from the lists. If your item is not listed, refer to the appropriate section in this guide to set it up. Press the **ACCEPT** button when finished.
	2b	A window to select the Region will appear. The region name may be edited by selecting the **EDIT NAME** button or you may use the default. If the Insight monitor was used to log varieties during planting, you can select **Variety Tracking**. If this load is a calibration load, select **Flag as Calibration Load**. Press the **ACCEPT** button when finished.
		***Note**: When Variety Tracking is enabled you will be prompted to change regions when the combine enters a new variety.*

Note: *Before harvesting grain, the following calibrations must be completed to ensure accuracy: Speed Sensor, Header Height, Vibration, and Temperature. Once these calibrations are complete, grain must be harvested to complete Moisture and Weight calibrations*

CALIBRATION		
Before performing calibrations, a configuration must be accepted in the **RUN** screen. To accept a configuration refer to the Operation section of this guide.		
	Press the **SETUP** button, located on the right hand side of the display.	
Press the **HARVEST** button to enter the harvest configuration screen.		
Speed Sensor Calibration		
Step 1	Things to remember during speed sensor calibration: • Before beginning the speed sensor calibration, a measured distance must be marked to drive. The recommended measured distance is 200 feet. • For most accurate results this calibration should be performed in field conditions. (Not on paved or gravel roads)	
	1a	Press the **COMBINE** tab and highlight the combine to be calibrated. Press the **CALIBRATE DISTANCE** button.
	1b	Select the type of ground speed sensor to calibrate and press **NEXT**.
	1c	If the known distance is other than 100 feet, press the **EDIT DISTANCE** button and enter the known distance, followed by the **ACCEPT** button. Press **NEXT.**
	1d	When the vehicle is at the starting point, press **RESET** to make sure the display reads zero. Press **START**. Drive to the end marker and press **STOP**.
	1e	Press **NEXT** and your calibration number will be calculated. Press **FINISH**.
		***Note**: It is recommended to run the distance calibration twice to confirm an accurate calibration.*
Header Height Calibration		
Step 2	***Note**: The header trip point must be set for each grain type.*	
	2a	Press the **HEADER** tab and highlight the header to calibrate. Then press **CALIBRATE HEADER SENSOR.**
	2b	The header sensor calibration wizard will appear with instructions. Select the **NEXT** button to continue.
	2c	Raise header to full height and press **SET MAX**.
	2d	Lower the header to minimum height and press **SET MIN**. Select the **NEXT** button to continue.
	2e	Select crop type to be harvested with this header using the drop down box.
	2f	Raise header to trip height and press **SET HEIGHT**.
		***Note**: Trip Point is the height of the head when the area turns on or off. This setting should be between harvesting height and raised height.*
	2g	Repeat Step 2E for each header and crop type. Press **FINISH** when complete.
Vibration Calibration		
Step 3	***Note**: Vibration cal must be performed with the correct head on the combine, and repeated for each crop harvested.*	
	3a	Under the **CALIBRATION** tab select the crop type you would like to calibrate vibration for, then press the **VIBRATION** button.
	3b	With the combine separator running at full operating speed with the header engaged, press the **START** button.
	3c	Run the separator at full speed while the monitor counts down 60 seconds.
	3d	When the vibration calibration is complete the vibration cal number will be displayed. Press **EXIT**.

Temperature Calibration		
Step 4	***Note**: Temperature calibration should be performed when the sensor has not been in direct sunlight or sitting next to grain. The reading should be an accurate reading of the surrounding air temperate.*	
	4a	Under the **CALIBRATION** tab select the **TEMPERATURE** button.
	4b	Use the arrow keys to change the temperature to the known outside air temperature.
	4c	The Offset will change to reflect the temperature calibration. When complete press **EXIT**.
Moisture Calibration		
Step 5	Things to remember during moisture calibration: • Temperature calibration should be completed before this calibration. • Moisture calibration must be completed before weight calibration. • You only need to calibrate moisture once per grain. • Calibrating moisture on one load affects all loads for that grain type. • You must calibrate for each grain type.	
	5a	Harvest one load of grain. Randomly sample grain from several locations in the grain tank to collect an average moisture for this load, then measure the actual moisture using an accurate moisture tester.
	5b	Under Harvest Setup, choose the **CALIBRATION** tab and select the **MOISTURE** button.
	5c	Select the Field and Region that a moisture sample was taken from. Use the arrow keys to adjust the recorded moisture so that it matches the known moisture of the sample that was taken.
	5d	The Offset will change to reflect the moisture calibration. When complete press **ACCEPT**.

Weight Calibration		
Step 6	Things to remember during weight calibration: • Temperature and moisture should be calibrated before weight • Calibration loads should be uniform in size, preferably around 3000 lbs. • Weight calibration can be completed at any time during the season • Use a consistent grain flow for each load (region). • Harvest each load at a different flow rate. Grain flow can be altered by changing ground speed for each load (recommended) or using different swath widths for each load. For Example: R1: 2 mph, R2: 3 mph, R3: 4 mph, R4: 5 mph. • For the most accurate results use four to eight calibration loads. • To eliminate confusion identifying calibration loads, use appropriate region names (ex: R1: 2 mph cal).	
	6a	Under the Region selection on the RUN screen, create a new region and put a check mark next to **FLAG AS CALIBRATION LOAD**.
	6b	Beginning with an empty grain tank, harvest a load of at least 3,000 pounds.
	6c	Empty grain tank completely onto truck or wagon and weigh with an accurate scale. Record each individual load weight to be entered in the monitor.
		Repeat steps 6a-6c for a minimum of four calibration loads.
	6d	Under Harvest Setup, choose the **CALIBRATION** tab and select the Crop Type to be calibrated. Each load that has been flagged as a calibration load for that crop type will show up on the screen.
	6e	Select one of the loads and press the **ENTER WEIGHT** button. Enter the Actual Weight and press **ACCEPT**. Repeat this step for each calibration load.
	6f	After actual weights have been entered check the loads to be used and press the **PERFORM CALIBRATION** button.
	6g	When linear calibration is complete press **YES** to perform calibration.
		***Note**: You will only be able to perform a linear calibration with less than four loads. (For best accuracy full calibration is required)*
	6h	When calibration is complete, examine error and press **OK**.
	6i	If average error is over 3%, uncheck the load with the maximum error and re-perform calibration. You must still have four loads checked to perform a full calibration.