

## Insight Cable Connections for Flow Meter

### **4100500 – Tractor Kit (A thru E)**

- A-4000306-10 - Display Cable (10ft)
- B-4000307-1 - Distribution Cable
- C-4000379 - Power Control Relay
- D-4000318-3 - CAN stub (3 ft)
- E-4000160 - CAN App Rate Module

### **4000310-1 - I/O Distribution Cable**

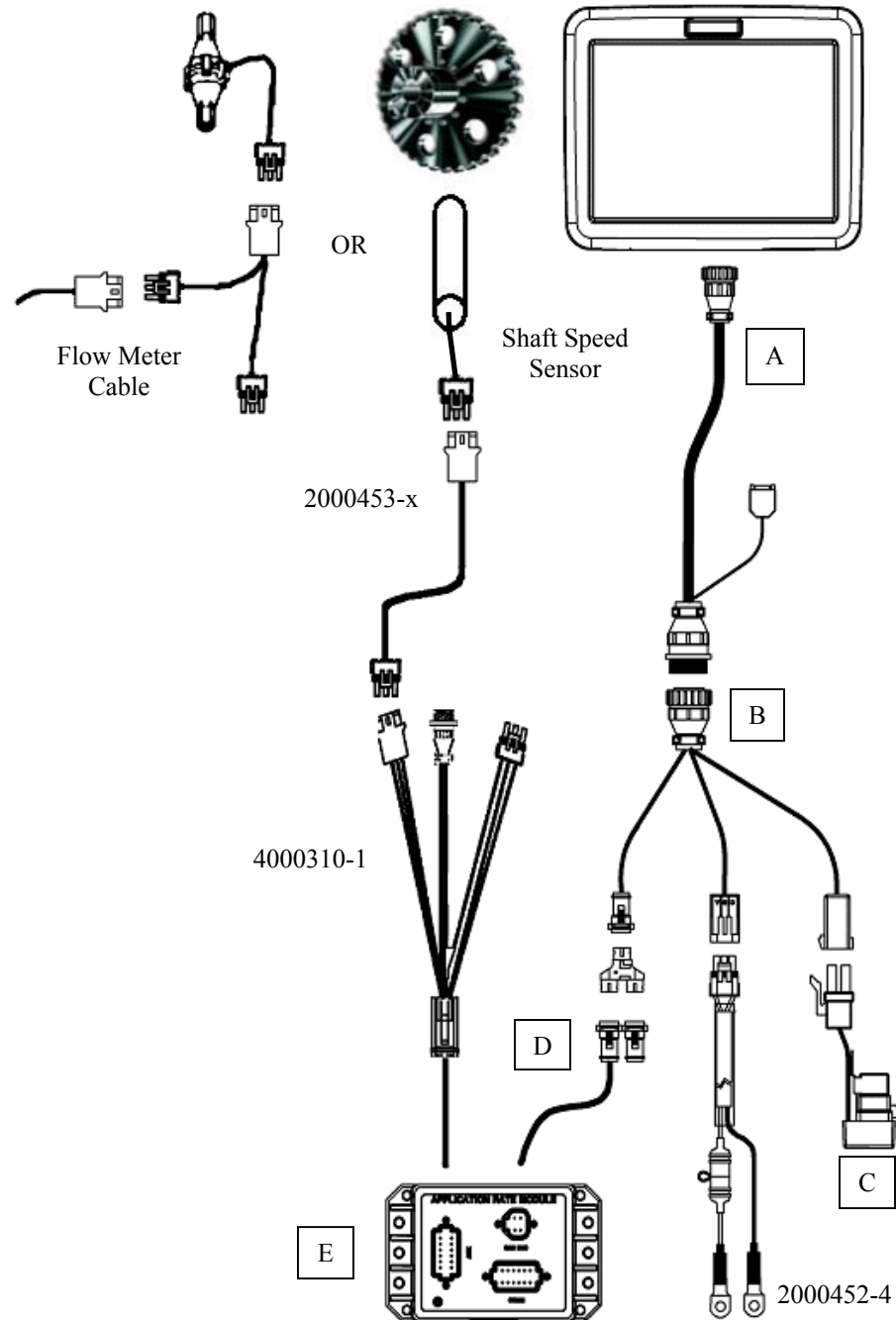
### **2000453-x – Implement/Flow Ext. Cable**

(-2 is 10ft, -3 is 25ft)

### **2000452-4 – Battery Power Cable (15ft)**


### **(See below) - Flow Meter Cable**

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- 2000805 – Raven Flow Meter Tee Cable
  - 2000823 - DICKEY-john Flow Meter Tee Cable
  - 2000807 - Micro-Trak Flow Meter Tee Cable
  - 2000806 - Hiniker Flow Meter Tee Cable
  - 2000802 - Raven Flow Meter Power Cable
  - 2000953 - Micro-Trak Flow Meter Power Cable
  - 2000803 - Hiniker Flow Meter Power Cable
  - 2000999 - Krohne Flow Meter Power Cable
  - 2000989 - JD Flow Meter Adapter Cable (98' 4700/6700)
  - 2000970 - Deere Flow Meter Tee Adapter - 4700/670
  - 2000882-3 – Shaft Speed Sensor




## 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 <b>WHITE POWER BUTTON</b> , which can be found on the back lower left hand corner of the display	
	Press the <b>SETUP</b> button to begin your initial setup (located on the right hand side of the display.)
<b>1</b>	Press the <b>GROWER/FIELD MANAGEMENT</b> button.
<b>2</b>	To add a new Grower to the system, press the <b>ADD</b> button under the Grower tab.
<b>3</b>	Press the <b>NEW</b> button to begin adding grower information
<b>3a</b>	Press the <b>KEYBOARD</b> button to enter a Business name. (If you are using desktop software it is recommended to use the same names as in the software.)
<b>3b</b>	Once you have entered the Business name push the <b>ACCEPT</b> button to return to the Business/Person Setup screen. Press the <b>NEXT</b> button.
<b>3c</b>	Type the first and last name of the contact person for the Business using the keyboard on the display.
<b>3d</b>	Press the <b>FINISH</b> button when finished entering information for the current grower.
<b>3e</b>	If you wish to add additional growers, return to step 3 above. If you are done entering growers, press the <b>ACCEPT</b> button.
<b>4</b>	Select the <b>SEASON</b> tab.
<b>4a</b>	Press the <b>NEW SEASON</b> button.
<b>4b</b>	Use the name provided or enter a name of your choice.
<b>4c</b>	Press the <b>ACCEPT</b> button when finished.
<b>5</b>	Select the <b>FIELD</b> tab.
<b>5a</b>	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.
<b>5b</b>	To enter farms and fields, press the <b>ADD</b> button. Select a farm from the list, or press the <b>NEW</b> button to enter a new farm name. Press <b>NEXT</b> to proceed.
<b>5c</b>	Press the <b>NEW</b> button to add fields to the farm. Use the keyboard to type the field name and then press <b>ACCEPT</b> . Repeat this step until all fields are entered for the farm.
<b>5d</b>	Press the <b>FINISH</b> button when finished. If you have additional fields, it is recommended to enter them all at this time.
<b>6</b>	Once finished with Grower/Field Management setup you may press the <b>SETUP</b> button to return to the setup screen or the <b>Run</b> button to proceed to the main operating screen.

## Application Setup (All Flow Meters)


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

APPLICATION CONFIGURATION	
	Press the <b>SETUP</b> button to begin your initial setup (located on the right hand side of the display.)
Press the <b>APPLICATION</b> button to enter the app rate configuration screen.	
Press the <b>ADD</b> button to start the setup wizard to create a new configuration.	
<b>Step 1</b>	Vehicle Setup - Select the desired vehicle from the list then press <b>Next</b> and proceed to step 2. If your vehicle is not listed press the <b>NEW</b> button and proceed to 1a.
<b>Step 1a</b>	Select correct Vehicle Type from the list and press the <b>NEXT</b> button.
<b>Step 1b</b>	Press the <b>KEYBOARD</b> button to enter the vehicle Make and Model information. (These settings are <b>OPTIONAL</b> ).
<b>Step 1c</b>	Once Vehicle make and model information is entered press the <b>Next</b> button.
<b>Step 1d</b>	If using a Self-Propelled Spreader or Sprayer, you will be prompted to enter a full swath width, number of boom sections and boom widths. (This step is skipped if using a Tractor, ATV, or Pickup Truck)
<b>Step 1e</b>	The Vehicle name will default to the Make and Model you entered in step 2. If you would like to edit the name press the <b>KEY BOARD</b> button and type your preferred name. Press the <b>ACCEPT</b> button when finished.
<b>Step 1f</b>	Press the <b>FINISH</b> button to save your vehicle and proceed to Step 2.
<b>Step 2</b>	Select the desired implement from the list then press <b>Next</b> to proceed to step 3. If your vehicle is not listed press the <b>NEW</b> button and proceed to 2a. <b>Note:</b> This step is skipped with Self-Propelled Spreaders or Sprayers
<b>Step 2a</b>	Select correct Implement Attachment Method and press the <b>NEXT</b> button.
<b>Step 2b</b>	Enter appropriate swath width, number of boom sections, boom widths and distance from hitch to application point. When finished, press the <b>NEXT</b> button to proceed
<b>Step 2c</b>	Press the <b>KEYBOARD</b> button to enter an implement name. Press the <b>ACCEPT</b> button when finished.
<b>Step 2d</b>	Press the <b>FINISH</b> button to save your implement settings and proceed to Step 3.

APPLICATION CONFIGURATION (cont.)	
<b>Step 3</b>	Select the desired flow meter configuration from the list or press the <b>NEW</b> button if the desired flow meter is not listed.
	Controller Setup – Select <b>FLOW METER</b> from the Device window. Once selected, pick the appropriate Flow Meter Type. If selecting <i>LIQUID</i> proceed to step 3a . If selecting <i>GRANULAR</i> proceed to step 3b. If selecting <i>PLANTING</i> proceed to 3c.
	<b>Step 3a</b> Use the <b>KEYPAD</b> to set the pulses/unit, which can normally be found stamped on the flow meter and press <b>NEXT</b> . (Note: some flow meters are stamped with pulses/10 units. Divide their stamped number by 10 if this is the case.)
	<b>Step 3b</b> Use the <b>KEYPAD</b> to set the pulses/unit. In a granular system this number is usually the lbs/pulse. You must divide the pls/rev by the lbs/rev to get the correct number.
	<b>Step 3c</b> Use the <b>KEYPAD</b> to set the units/pulse. In a Planting system, this number is usually the seeds/pulse. To get this number use the following equation: $\frac{\# \text{ of seeds dispensed per rev of sprocket per row}}{\# \text{ of sprocket teeth}} \times \text{total \# of rows}$
<b>Step 3d</b> The Controller name will default to the Flow Meter Type. If you would like to edit the name, press the <b>KEYBOARD</b> button and type the preferred name and press the <b>ACCEPT</b> button. Press the <b>FINISH</b> button to save your Flow Meter Type and proceed to Step 4.	
<b>Step 4</b>	If using an Implement Switch, choose whether it is standard or reversed from the list. If not using an Implement Switch set to none. Press <b>NEXT</b> to proceed to step 5.
<b>Step 5</b>	Select the desired Ground Speed Source. In most cases GPS will be the primary speed source with Wheel or Radar as the backup. If you are using a backup ground speed source it is recommended that you calibrate it before the season begins. Press <b>NEXT</b> . (Ground Speed calibrations are completed under the <b>CALIBRATE DISTANCE</b> button on the Application Rate Configuration Screen.)
<b>Step 6</b>	The Configuration name will default to a name based on your previous configuration settings. If you would like to edit the name press the <b>KEYBOARD</b> button and type the preferred name. Press the <b>ACCEPT</b> button when finished. Press the <b>FINISH</b> button to save your Configuration.

Configuration Settings	
<b>Step 7</b>	Additional settings may be necessary for proper operation. Highlight the desired configuration from the Configuration Window and press the <b>CONFIGURATION SETTINGS</b> button to adjust these settings. Press the <b>ACCEPT</b> button when finished.

PRODUCT SETUP		
Select the <b>PRODUCT</b> tab in the Application menu to setup your products.		
<b>Step 8</b>	Press the <b>ADD</b> button to begin the Product Setup Wizard.	
	<b>Step 8a</b>	Select the appropriate Product Type from the list and press <b>NEXT</b> and proceed to 7b. If <i>Fertilizer</i> is selected, proceed to 7d.
	<b>Step 8b</b>	If <i>Planted Seed</i> was selected you will be asked to identify which crop it belongs to. If any other product type is selected you will be asked to set the units which will be logged. Press the <b>NEXT</b> button when finished.
	<b>Step 8c</b>	Press the <b>KEYBOARD</b> button to label the product's manufacturer (optional) and name (required). Press the <b>FINISH</b> button to save your Product.
	<b>Step 8d</b>	If <i>Fertilizer</i> was selected you will then need to choose the fertilizer that you will be applying. If the fertilizer that you are applying is not in the list choose <i>User Defined</i> . Press <b>NEXT</b> when finished.
	<b>Step 8e</b>	Press the <b>KEYBOARD</b> button to label the fertilizer's manufacturer (optional). Press the <b>FINISH</b> button to save your product.

<b>Operation</b>		
<b>Step 1</b>		Press the <b>RUN</b> button to enter your main operating screen (located on the lower right hand side of the display.)
<b>Step 2</b>		Press the <b>FIELD</b> button to select which field you will be logging to.
	<b>Step 2a</b>	Select the appropriate Grower, Field, Operating Configuration, and Product from the lists. If your item is not listed, refer to the appropriate section in this guide to set it up. If you are using multiple passes for a single season, you can create a new operational instance by pressing the <b>Change</b> button next to Operational Instance. Press the <b>ACCEPT</b> button when finished.
	<b>Step 2b</b>	If data has not been logged to the current field, a window to select the Region will appear. The name may be edited by selecting the <b>EDIT NAME</b> button or you may press <b>ACCEPT</b> to use the default.

<b>AREA COUNTING (Run Screen)</b>
Area will automatically be counted when the monitor is recording pulses from the flow meter and the monitor displays a ground speed. The area switch is located in the lower right hand corner of the display. The button should read <b>AUTO</b> to count area. If you do not want to count area when you are applying, press the <b>AUTO</b> button to disable the area count (button will display <b>OFF</b> ).