



## **Row Cleaner Control Module Operations Manual**

 Precision Planting®

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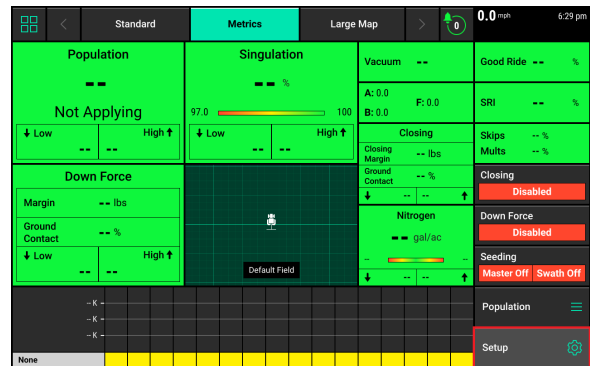
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# Configuring the 20|20 for the Row Cleaner Control Module

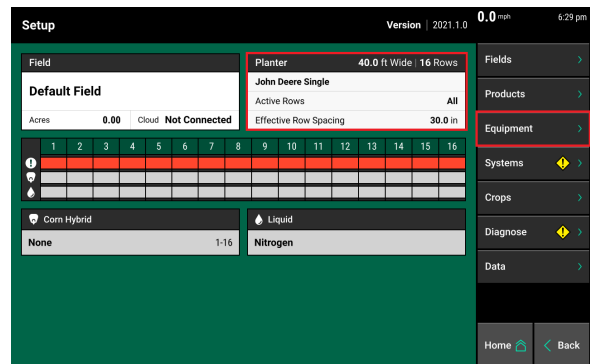
## Step 1:

From the home screen press “Setup”.



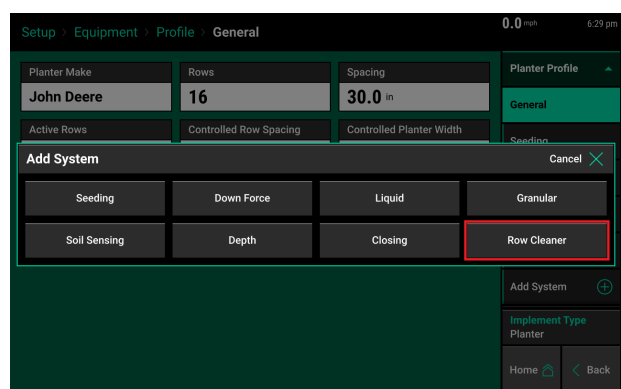
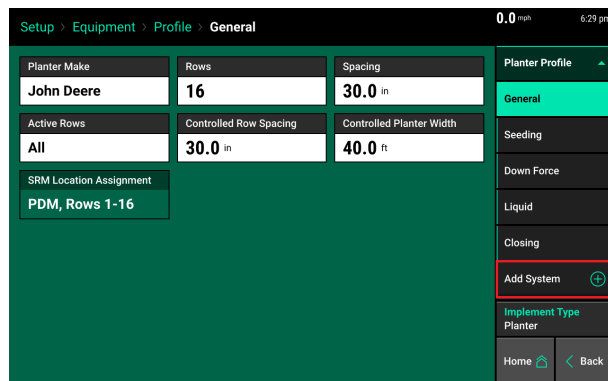
## Step 2:

Select “Equipment” from the right menu, or select the “Planter” box to go to the Equipment Profile screen.



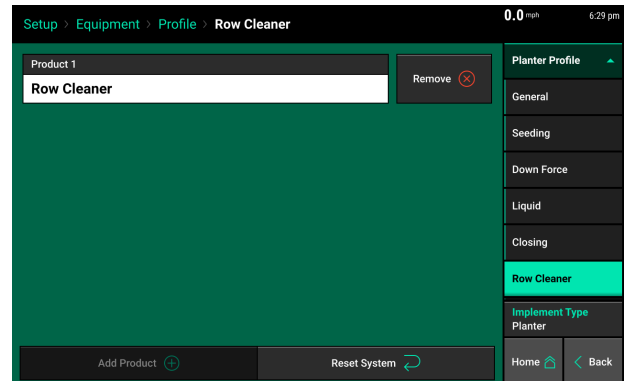
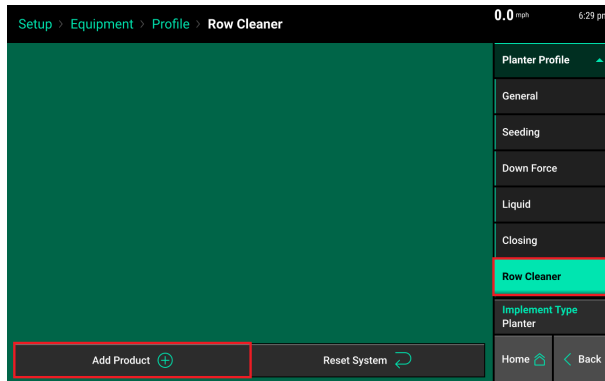
## Step 3:

Select “Add System” on the right, then select “Row Cleaner”.



#### Step 4:

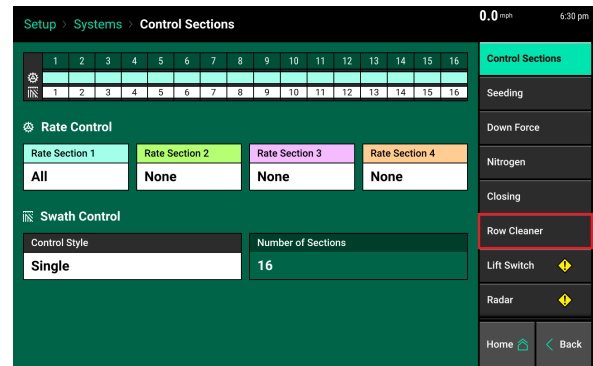
Select "Row Cleaner" from the right menu, then "Add Product" at the bottom of the screen, and finally "Row Cleaner" as the product.



# Module Setup

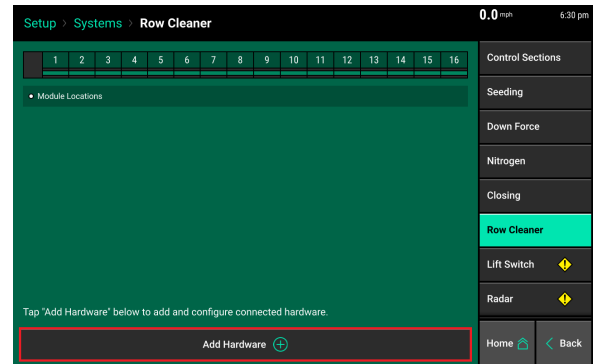
## Step 1:

From the home screen, select “Setup”, “Systems”, “Row Cleaner”.



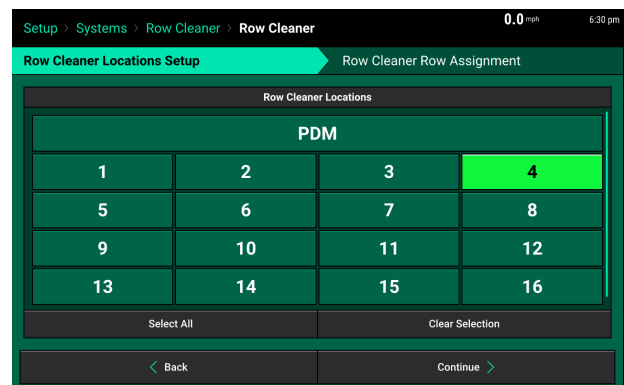
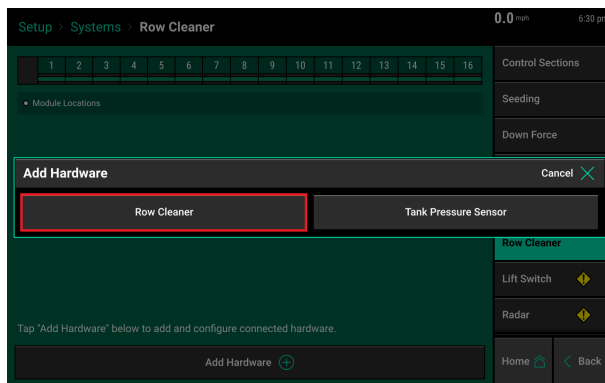
## Step 2:

Once on the Row Cleaner Setup screen, select “Add Hardware” at the bottom.



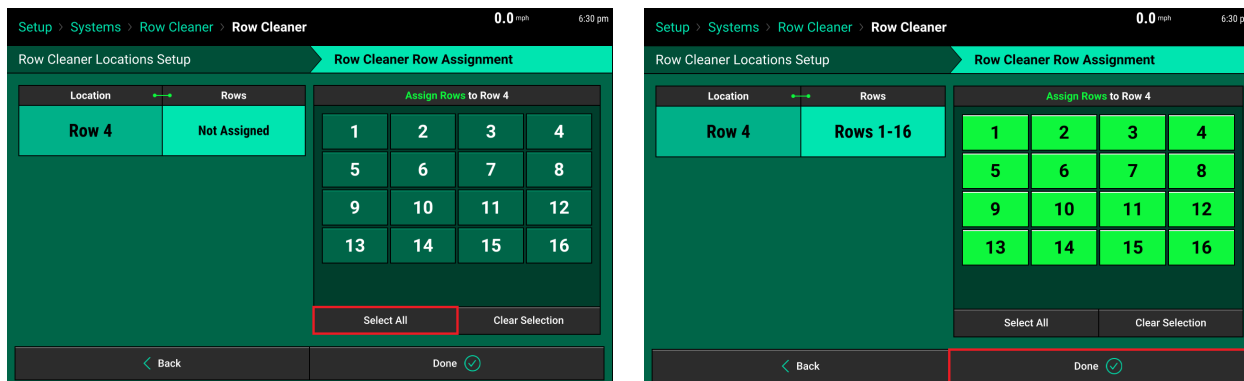
## Step 3:

Select “Row Cleaner” and then select the physical location the module is installed (or connected).



#### Step 4:

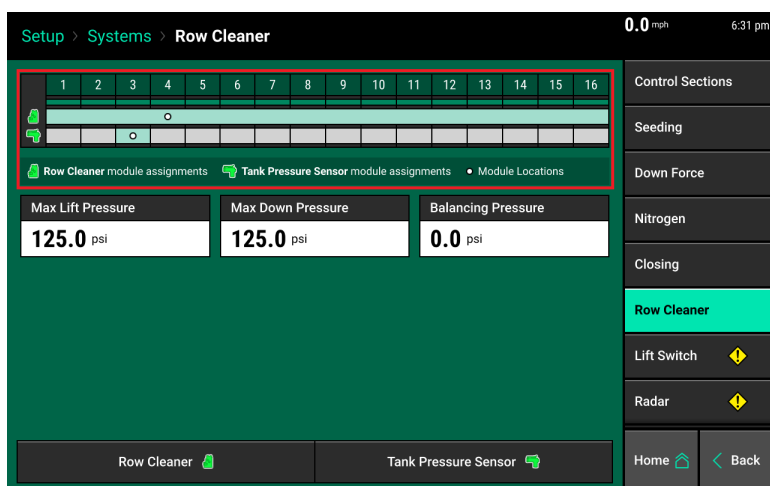
Select the appropriate rows assigned to the Row Cleaner Control Module or press “Select All” to assign all rows. Press “Done”.



**Note:** Location and Row Assignment boxes will turn green when selected.

Repeat the “Add Hardware” steps if the optional Tank Pressure Sensor (756555) is installed.

Once complete, the graphic at the top of the Row Cleaner Setup screen will indicate how each component is configured and should match the physical installation.



**Max Lift Pressure** — The default value is 125 psi. Adjusting this will change the max lift pressure the row cleaner control module will adjust to.

**Max Down Pressure** — The default value is 125 psi. Adjusting this will change the max down pressure the row cleaner control module will adjust to.

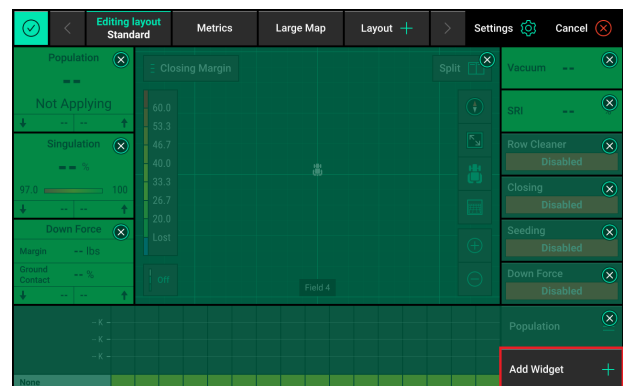
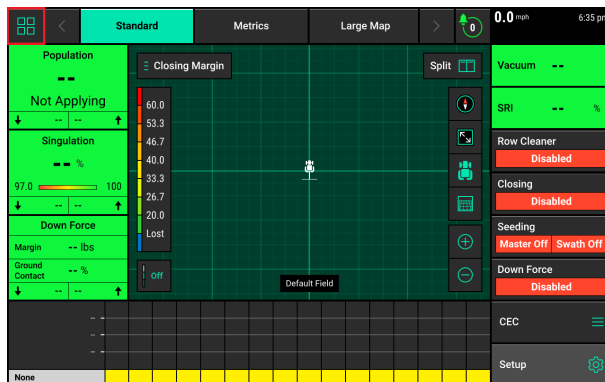
**Balancing Pressure** — Balancing pressure is used to apply an (initial) equal pressure to both the lift and down circuit, if desired. If the balancing pressure is set, the control target setting (lift or down) will apply pressure appropriately to overcome the balancing pressure. For example, if the balancing pressure is set to 10 psi and then the control target is set to 10 psi lift, the lift circuit will have 20 psi and the down circuit will have 10 psi.

# Module Operation and Metrics

Once the row cleaner control module setup is complete, the “Row Cleaner” control widget should be added to a home screen layout. This will allow the operator to enable the product and set/adjust the control target.

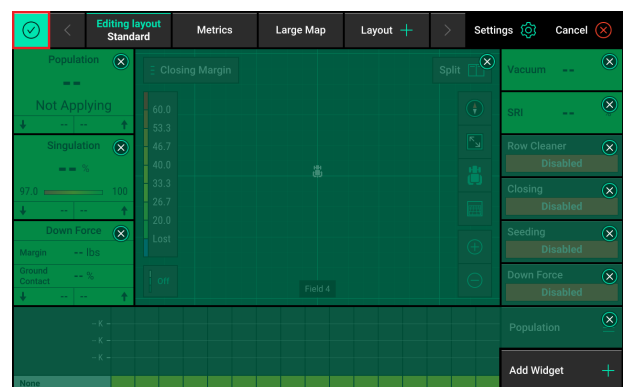
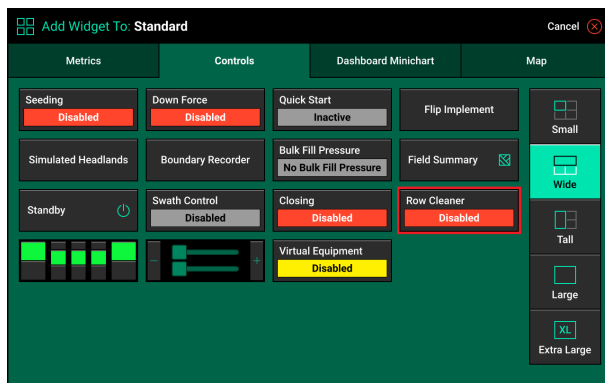
## Step 1:

Select the button in the upper left corner of a home screen to edit the layout, then select “Add Widget” in the bottom right corner.



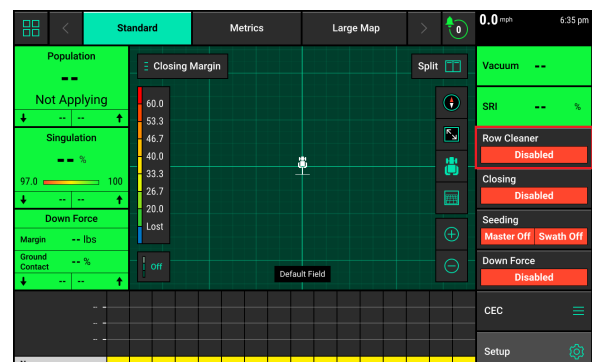
## Step 2:

Select “Controls”. The “Row Cleaner” control widget can be configured in the “Wide”, “Tall”, or “Large” size. Select the desired size , place it on the screen, and select the “check mark” in the upper left corner to save the layout.



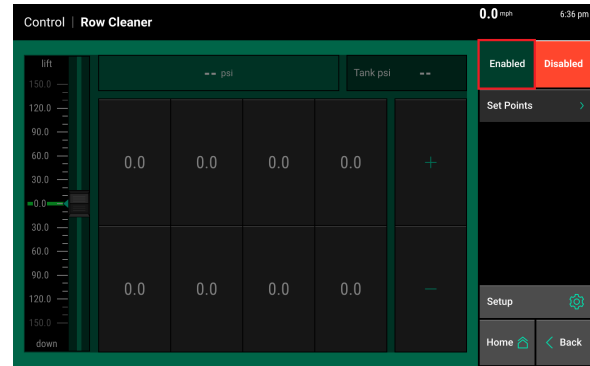
## Step 3:

Select the “Row Cleaner” control widget.

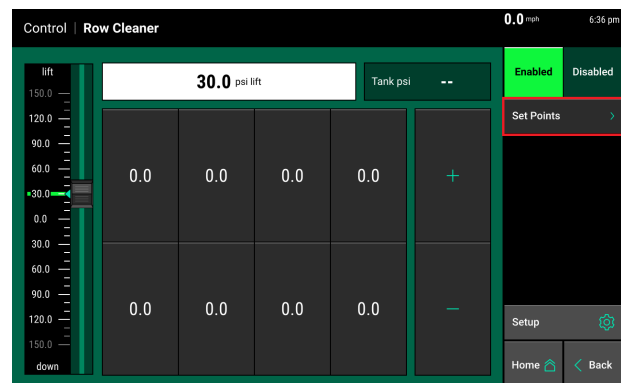
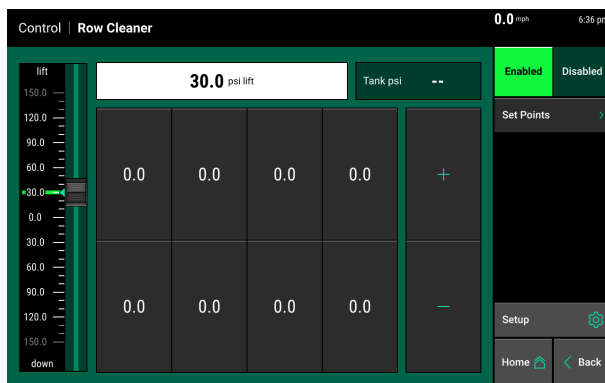


#### Step 4:

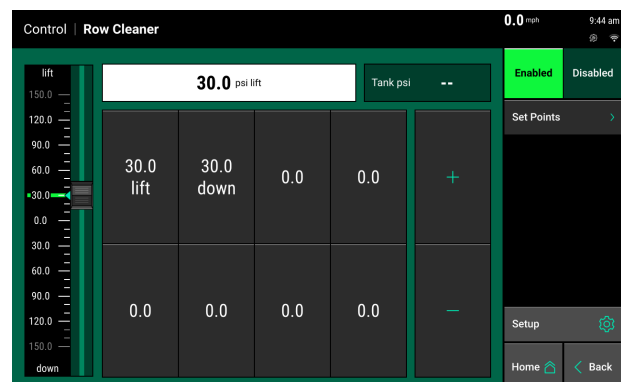
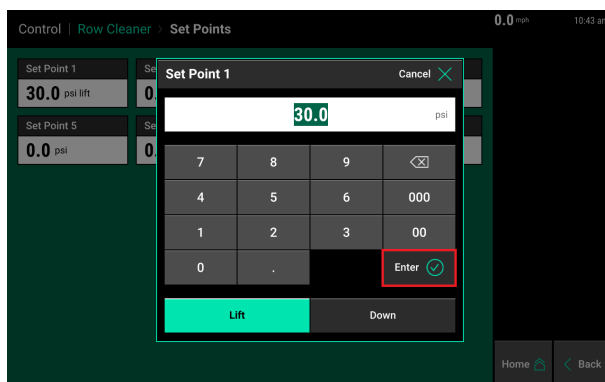
Select “Enabled” to enable row cleaner module control. It must be enabled for the system to function.



The operator can set the target pressure (lift or down) using the slide on the left of the screen. Moving the slider up, will set a lift pressure. Moving the slider down, will set a down pressure. Target set points can also be configured for quick adjustment during operation. Select “Set Point” on the right side.



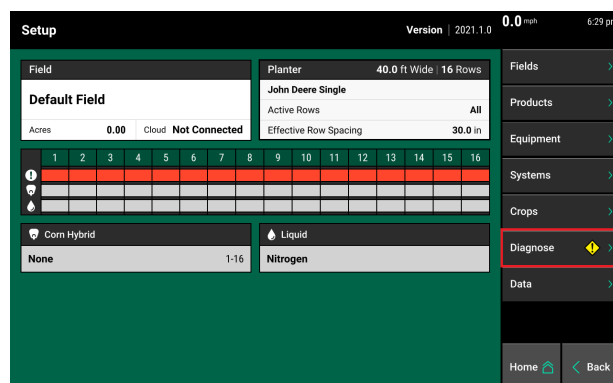
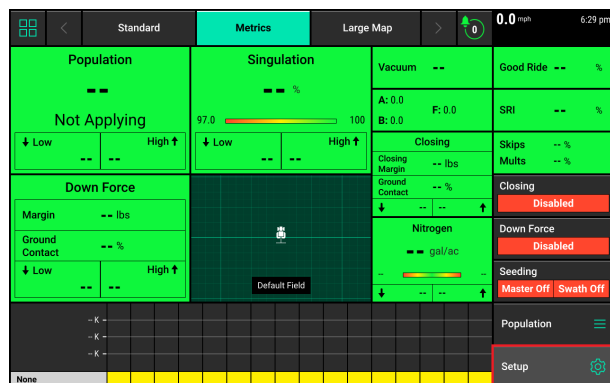
Select one of the Set Point boxes. Enter the desired pressure and select either “Lift” or “Down”. Press “Enter”. Up to eight set points can be configured.



**Note:** If the (756555) tank pressure sensor is installed and configured, the reading will display in the “Tank psi” box.

# Diagnostic Information and Common Troubleshooting Issues

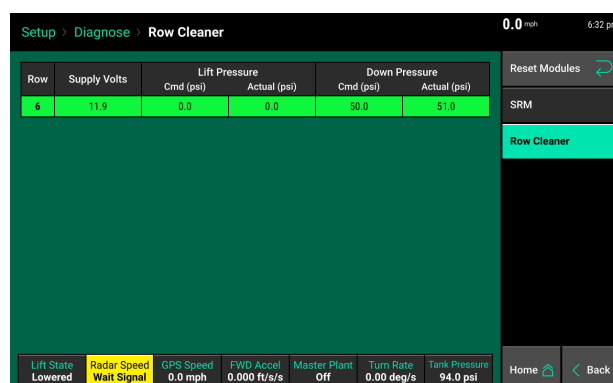
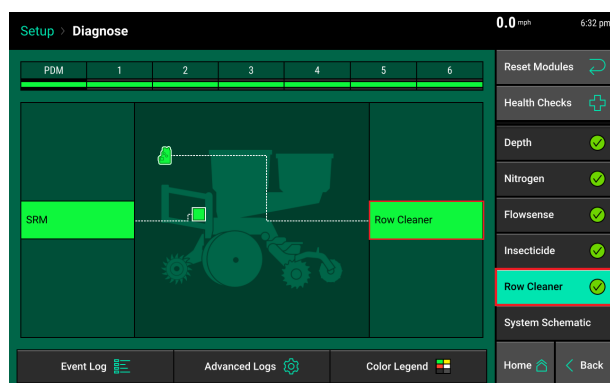
Prior to planting, ensure that all planter diagnostic information is ok. Select “Setup”, “Diagnose”.



All systems should be green on the diagnose page. Select “Color Legend” to view an explanation of what each color indicates.

**Note:** Modules may be updating during initial connection. Once updates are complete, all modules should be green. If the modules are not green, confirm the planter/system setup is correct and that all components are connected.

Select the “Row Cleaner” box in the diagram or from the right side menu. Select “Row Cleaner” to view the Level 2 diagnose page, which includes detailed information for the Row Cleaner Control Module.



The following information is listed for the Row Cleaner Control Module:

**Row** — The row the module is installed on

**Supply Volts** — Displays the supply voltage for the module

**Lift Pressure Cmd (psi)** — Displays the commanded lift circuit pressure based on target settings

**Lift Pressure Actual (psi)** — Displays the actual lift circuit pressure

**Down Pressure Cmd (psi)** — Displays the commanded down circuit pressure based on target settings

**Down Pressure Actual (psi)** — Displays the actual down circuit pressure

## Common Troubleshooting Issues

| Manual Controller Symptom                                                         | Row Cleaner Control Module Symptom                                                  | Common Causes                                                                                      |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Leaking air from the back of the in-cab controller with output open               | Module venting constantly with output open                                          | Cylinder bypassing air between lift/down OR lift/down supply crossed OR input/output lines crossed |
| Leaking air even with controller output off or plugged                            | Module venting constantly with output is plugged                                    | Failed controller                                                                                  |
| Compressor runs constantly, excessive control adjustment required                 | Cannot build system pressure pop-up, compressor runs constantly with output open    | Leaking air line(s) or cylinder(s)                                                                 |
| Unable to lift, compressor runs even when compressor output is plugged            | Cannot build system pressure pop-up, compressor runs constantly with output plugged | Bad compressor                                                                                     |
| Occasional air venting from in-cab controller, especially after making adjustment | Occasional venting, especially when adjusting pressure                              | Normal operation                                                                                   |