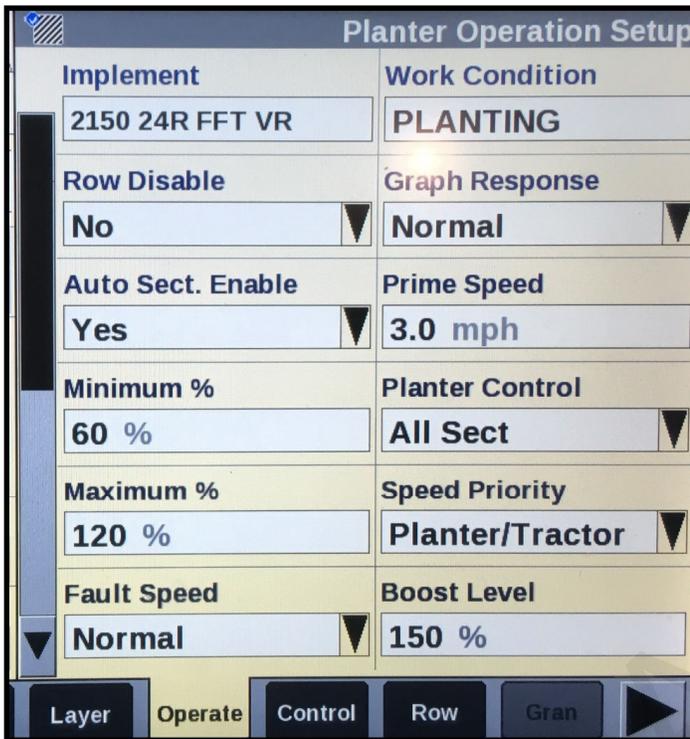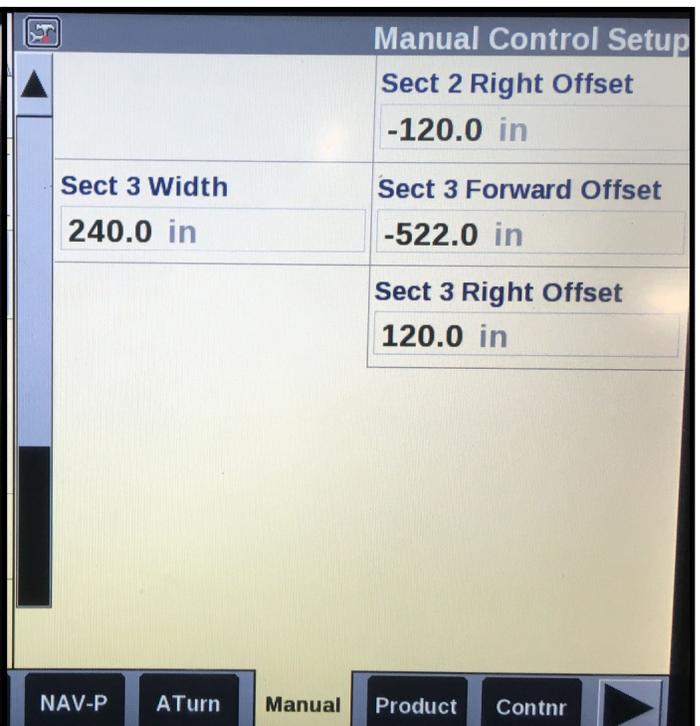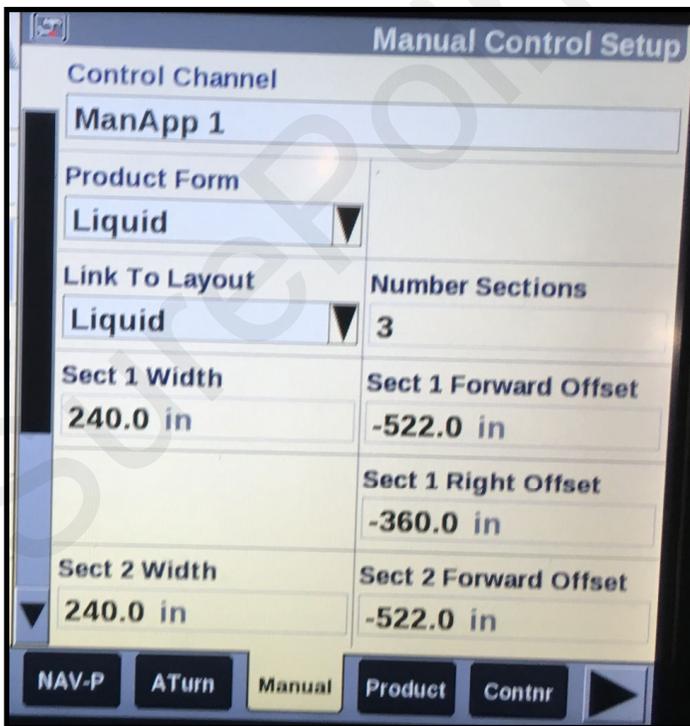Following are pictures of screens involved in setting up the Pro 700 Planter UCM for Liquid on the 2000 series planters. These are just representative pictures of a 24-row 2150 planter. Your setup will vary from these. These pictures show some screens that relate directly to the liquid application.

Refer to the Case 2000 Series Early Riser Planter Software Operating Guide for complete instructions for setting up and operating the liquid system. The Setup Wizard will take you through most of the setup.

Planter Operation Setup

Implement	Work Condition
2150 24R FFT VR	PLANTING
Row Disable	**Graph Response**
No	Normal
Auto Sect. Enable	**Prime Speed**
Yes	3.0 mph
Minimum %	**Planter Control**
60 %	All Sect
Maximum %	**Speed Priority**
120 %	Planter/Tractor
Fault Speed	**Boost Level**
Normal	150 %

Layer | Operate | Control | Row | Gran

Implement setup

Implement
2150 24R FFT VR

Work Condition

PLANTING

Implement Type

Hitch Implement

Impl. Width	Swath Width
720.0 in	720.0 in
Impl. Offset	**Bar Distance**
0.0 in	522.0 in
Max Steer Angle	
55 °	

Oper | Layout | Service | Impl | Vehicle

Liquid Systems on the 2000 Series planters using the Pro 700 Planter UCM must have 3 sections.

Manual Control Setup

Control Channel

ManApp 1

Product Form

Liquid

Link To Layout	**Number Sections**
Liquid	3
Sect 1 Width	**Sect 1 Forward Offset**
240.0 in	-522.0 in
	Sect 1 Right Offset
	-360.0 in
Sect 2 Width	**Sect 2 Forward Offset**
240.0 in	-522.0 in

NAV-P | ATurn | Manual | Product | Contnr

Manual Control Setup

	Sect 2 Right Offset
	-120.0 in
Sect 3 Width	**Sect 3 Forward Offset**
240.0 in	-522.0 in
	Sect 3 Right Offset
	120.0 in

NAV-P | ATurn | Manual | Product | Contnr

Product Setup

Product Name	Form
10-34-0 (10) + 13-	Liquid

Usage	
Fertilizer	

Default App Rate	Delta App Rate
3.400 gal/ac Units	0.000 gal/ac

Min App Rate	Max App Rate
2.400 gal/ac	6.800 gal/ac

Package Size	RX Scale Factor
0.000 gal Units	1 : 1.0000

Product Density	
11.60 lb/gal Units	

NAV-P | ATurn | Manual | Product | Contnr ▶

Container Setup

Container	Type
Liquid Tank	Volume

Capacity	Level
600.0 gal Units	75.0 gal

Warning Type	Warning Level
Value	50.0 gal

Time Tracking	
Disabled	

Liquid Tank
1   75.0 gal

NAV-P | ATurn | Manual | Product | Contnr ▶

These 4 Section Rows setups are for the SEED, not the Liquid.

Planter Configuration Setup

Implement	Active Gran Chem
2150 24R FFT VR	No

Section 1 Rows	Markers
6 rows	No

Section 2 Rows	Liquid Product
6 rows	**Yes**

Section 3 Rows	
6 rows	

Section 4 Rows	Bulk Fill
6 rows	Yes

Row Width	
30.0 in	

Config. | DFbar | ASI | Gran | Activate

Advanced Setups > Set to YES to allow changes to LIQUID GAIN Settings.

Planter Configuration Setup

Bar Distance	Down Force Ctrl
522.0 in	Hydraulic

Advanced Setups	PTO Pump
No	No

	Bulk Fill Lights
	Yes

Outer Group Size	
1 rows	

Wheel Speed Sim	
No	

Config. | DFbar | ASI | Gran | Activate

Boost Level > This gives the pump a boost on startup to get to rate quicker. Set as desired.

Layer Assignment

Work Condition
PLANTING

Layer 1
Liquid

Product 1
10-34-0 (10) + 13- ▼

Container 1
Liquid Tank ▼

Layer 2
No Control ▼

Product 2
▼

Container 2
None ▼

| Layer | Operate | Control | Row | Gran | ▶ |

Planter Operation Setup

Implement
2150 24R FFT VR

Work Condition
PLANTING

Row Disable
No ▼

Graph Response
Normal ▼

Auto Sect. Enable
Yes ▼

Prime Speed
3.0 mph

Minimum %
60 %

Planter Control
All Sect ▼

Maximum %
120 %

Speed Priority
Planter/Tractor ▼

Fault Speed
Normal ▼

Boost Level
150 %

| Layer | Operate | ▲ |

Stop Plant Beeps
3

Intentional Overlap
0 rows

Planter Swath Offset
0.0 in

Jump Start Speed
3.0 mph

Jump Start Delay
3 Sec

Jump Start Cancel
2 Sec

Liq Agitation %
10 % Or Lower

CAL VALUE > pulses per Liter for flowmeter.

0.3 - 5 gpm and smaller > 792 (electric system)

0.6 - 13 gpm and larger > 528 (hydraulic system)

Liquid Cal—
You can test run the Liquid System from these screens.

Planter Controller Setup

Implement
2150 24R FFT VR

Work Condition
PLANTING

Controller
Liquid ▼

Default Rate
3.400 gal/ac Units

Alarm Limit (+/-)
10 %

Delta Rate
0.100 gal/ac

Cal Value (L)
528

Product Delay
2.00 Sec

Select Work Condition to edit Setup items. If an As Applied Work

Condition is selected, go to Toolbox>Product to edit Default & Delta Rat

| Layer | Operate | Control | Row | Gran | ▶ |

Planter Liquid Cal

Enter the intended planting rate and speed. Enter the Cal Value from the tag found attached to the flow meter or stamped on the flow meter itself.

Liquid Default Rate
3.400 gal/ac

Speed
10.0 mph

Liquid Cal Value (L)
528

| Help | Main | Back | Next |

Planter Liquid Cal

Select or create a Work Condition. A Work Condition is a group name for setup and calibration values. You can also manually enter the Cal Value here.

Implement	Work Condition
2150 24R FFT VR	PLANTING

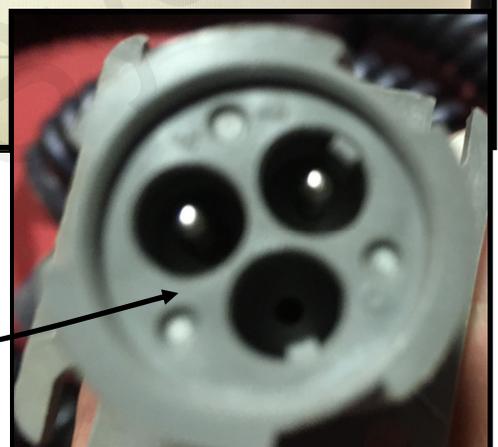**Liquid Cal Value (L)**

528

Next

Planter Liquid Cal

Press the Run button. Press the tether switch until measured flow is displayed and stable. Dense liquids may not stabilize. Press Back, decrease Cal Value and repeat this step. Once flow is stable, collect 1 minute samples from several nozzles. Press Run button when done.

Start/Stop	Liquid Pressure
Run	↓→•← 15 psi

Target Per Nozzle	Measured
0.172 gpm	----- gpm

Help

Tether switch from Case.

Connects to Connector on back of planter

(*Jump across these two pins to activate pump without tether switch*)

Planter Liquid Cal

The liquid calibration fine tunes the Cal Value for the flow meter and for the product being used. If your planter supports it, the time of the last calibration is shown here.
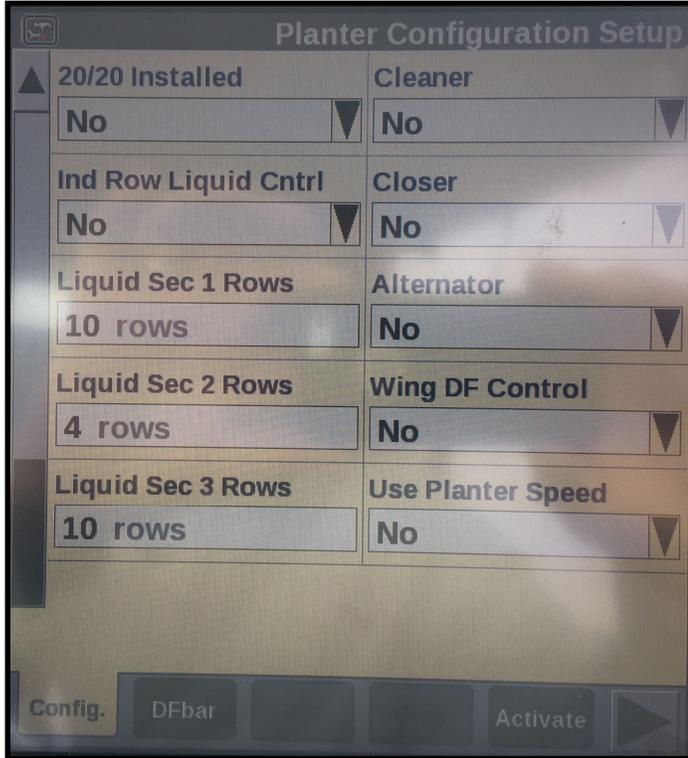
Last Saved

Help   **Main**   **Back**   **Next**

CAN Status

Controller	GPS
Status	Online
SR #	5535440094
Source Address	28
Bootcode Version	*****
Hardware Version	*****
Software Version	V8.30.5.4
Controller	Rate ECU
Status	Online
SR #	6100157
Source Address	200
Bootcode Version	V1.0.0.32
Hardware Version	*****
Software Version	V1.6.0.0

| CAN | Fault | Res | GPS | GPS2 | ▶ |

SurePoint Ag Systems

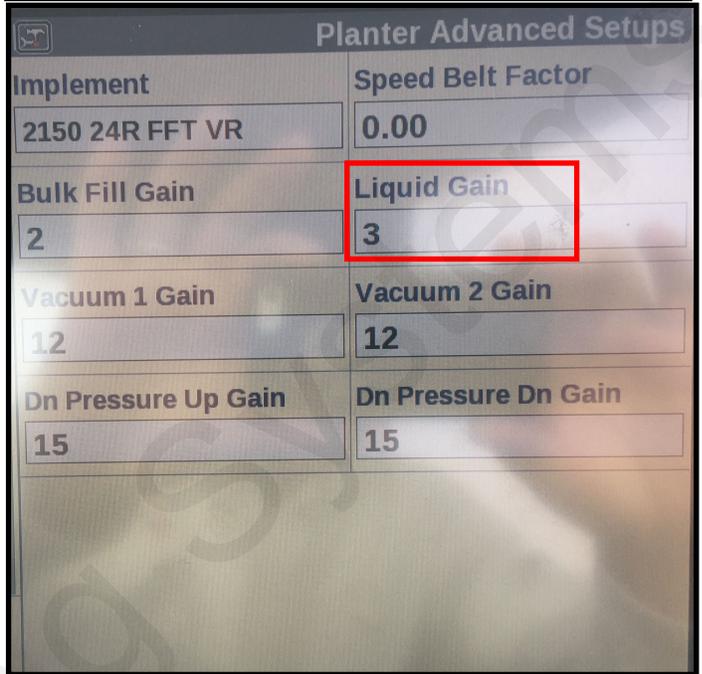| Planter Config Setup	Advanced Setups > Adjust Liquid Gain here.
Enter number of rows in each section for Liquid.	Hydraulic Pump > start at 8. Electric Pump > start at 20. Adjust as needed. Reduce if system oscillates around rate. Increase if system is slow to adjust.