

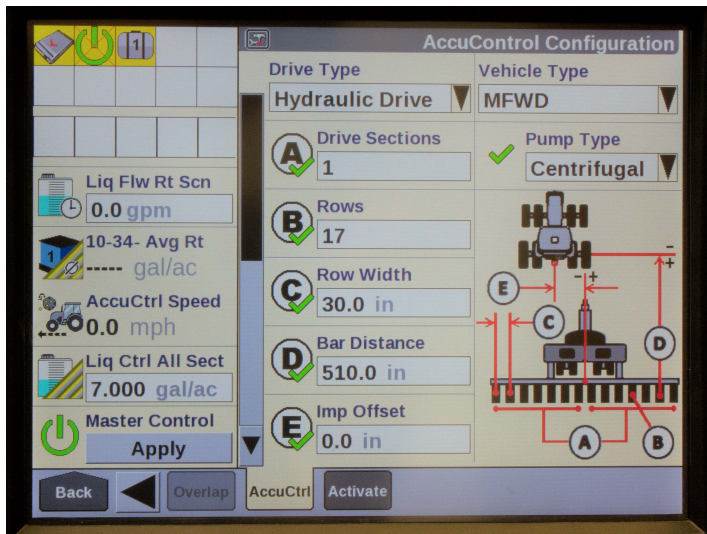
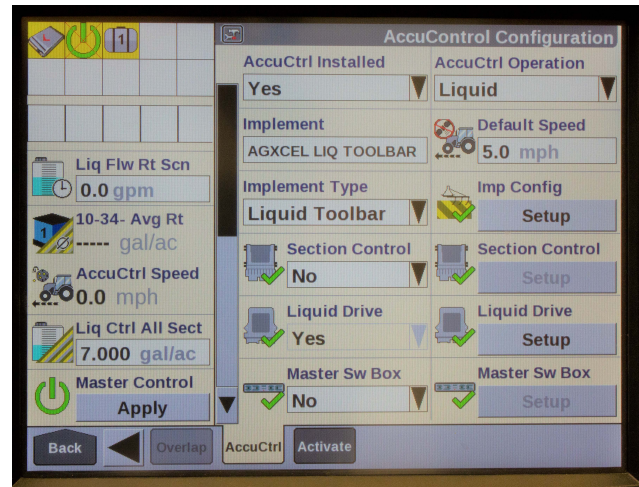


QuickStart Setup Instructions for Case IH Pro 700 with AccuControl

IMPORTANT: SOFTWARE VERSION AND RATE & SECTION CONTROL MODULE UPDATES

Keep your software up-to-date. Go to Diagnostics > Version to see the Software Version number for each piece of software (esp. AccuControl). Check with your CASE (NH) dealer to see what the latest versions are. Also, check and update the software/firmware for the Field-IQ module (Diagnostics > CAN > Scroll to find Rate & Section Control Module). Have dealer update all this once a year. March 2017-- Display and AccuControl version 30.16. Rate & Section Ctrl Module should be 3.19. Version 2.14 will NOT work.

1. Create an Operator (Toolbox > Operator)
2. Check GPS Status (Toolbox > GPS)
3. Create Implement (Toolbox > Implement)
4. Set up Product (Toolbox > Product)
5. Set up Container (Optional) (Toolbox > Container)
6. Basic Setup (Toolbox > AccuCtrl)
 - A. Select AccuCtrl Operation (Liquid)
 - B. Select AccuCtrl Installed (Yes)
 - C. Select Implement Type (Liquid Toolbar)

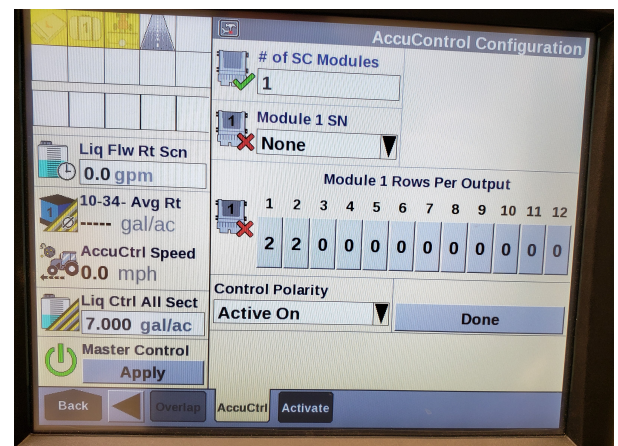


7. Implement Configuration (Toolbox > AccuCtrl >

- A. Press 'Setup'
- B. Select Drive Type (will be Hydraulic Drive)
- C. Select Vehicle Type
- D. Set Number of Drive Sections (A) Always = 1
- E. Pump Type will be set at Centrifugal
- F. Set Total Number of Rows (B)
- G. Enter Row Width (C)
- H. Enter Bar Distance in Inches (axle to knife) (D)
- I. Measure Implement Right/Left Offset
- J. Scroll down to Enter Rows per Drive Section (same as Total Number of Rows)
- K. Press 'Done'

8. Section Control Setup (If equipped with Section Shut Off Valve) Toolbox > AccuControl > Section Control

- A. Select Section Control (Yes)
 - B. Press 'Setup'
 - C. Assign Module Serial Numbers
 - D. Assign Rows per Output (number of rows per Section)
 - E. Select Control Polarity (Active On)
 - F. Select 'Done'
9. Overlap/ Boundary Control (Toolbox > Overlap)
 - A. Turn Overlap Control and Boundary Control ON.
 - B. Adjust values as desired.





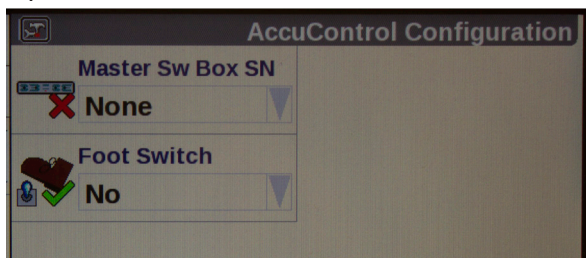
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AccuControl Setup for Liquid

10. Liquid Drive Setup *Toolbox > AccuControl > Liquid Drive*

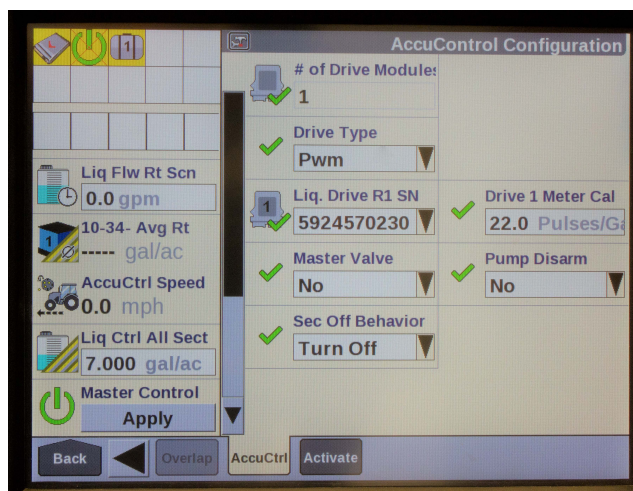
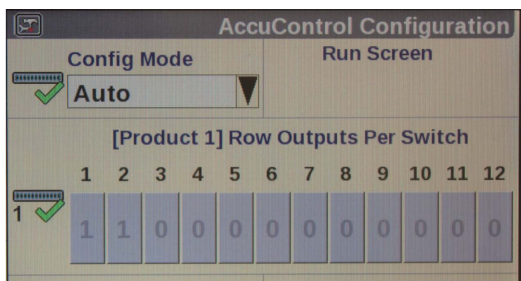
- Select Liquid Drive (Yes)
- Press 'Setup'
- Assign Liquid Drive Serial Numbers
- Select Drive Type (PWM)
- Select Master Valve Type (NO)
- Select Pump Disarm (No)
- Select Sec Off Behavior (Turn Off)
- Enter Drive Meter Cal Number
- Press 'Done'

Optional Master Switch Box and Foot Switch



12. Implement Switch (if installed)

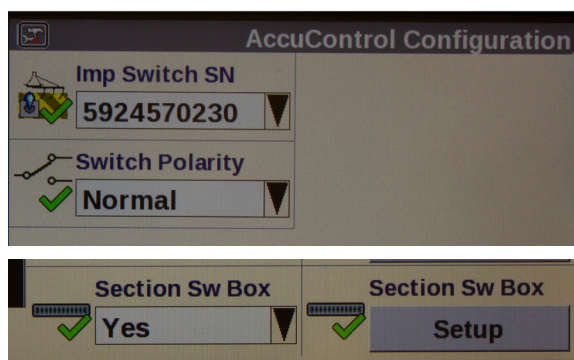
- Select Implement Switch (Yes)
- Press 'Setup'
- Select Implement Switch Serial Number
- Select Switch Polarity (Determine this by raising and lowering the implement and watch the Implement Status Arrow in Status/Warning Area for proper operation.)
- Press 'Done'



Number of Pumps	Flow Calibration Number
1 Pump	84
2 Pumps	42
3 Pumps	28
4 Pumps	21

11. Master Switch Box (If equipped with External Switch Box)

- Select Master Sw Box (Yes/No)
- Press 'Setup'
- Verify Serial Number
- Select Foot Switch (if installed)
- Press 'Done'



13. Section Switch Box (If system is equipped with External Section Switch Box or desire Manual Valve Section Control through Run Screens).

- Select Section Switch Box (Yes)
- Press 'Setup'
- Select Configuration Mode (Auto)
- Verify Switch Box Serial Number (if equipped)

If no external switchbox is installed, User Defined Windows can be assigned to a Run Screen (Toolbox>Layout).



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Create A Layout

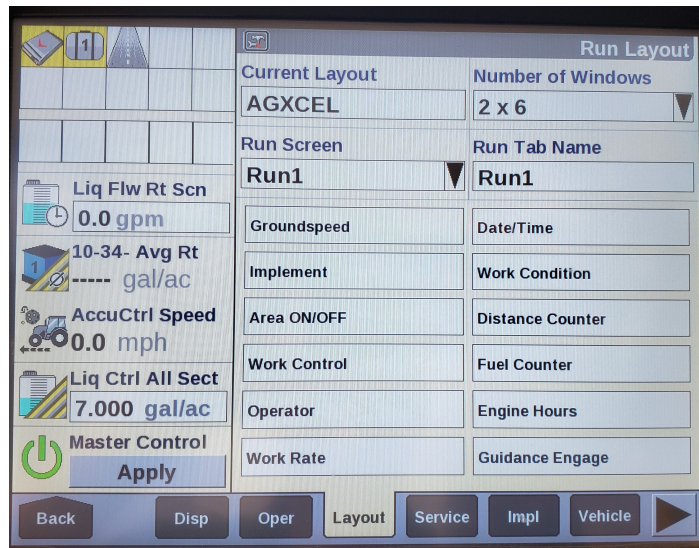
Go to Toolbox>Layout

Select Current Layout and then select New

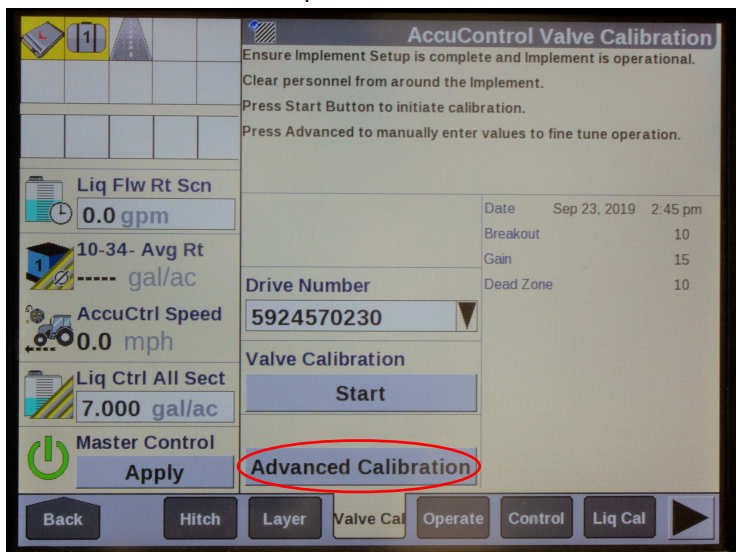
Name the Layout. Under Run Screen select a screen.

In the white boxes add the following items to Run Screen

- AccuControl Speed
- Master Control
- Liquid Op Mode
- Liquid Control
- Liq App Rate Scan
- Container
- Liq Flow Rt Scan
- Section Control
- Overlap Control
- Clutch Control (may want this if the system has electric section valves)



The Run Screen Layout is largely a mirror of operator preference. Some of these items may be added to the Left Hand area if space is available or more than one Run Screen can be set up.



Proportional Gain: 0	Integral Gain: 15
Differential Gain: 0	Breakout: 10%
Dead Zone: 10%	Integrator Upper Limit: 0 Hz
Integrator Lower Limit: 0 Hz	Compactor Limit: 100 Hz
Flow Filter Time Constant: 0%	Process Gain: 0.1000
Lead Filter Constant: 0.01 Hz	Flow Error Timeout: 45 Seconds
Lag Filter Constant: 0.01 Hz	
Feed Forward Gain: 0	
Ramp Limit: 655 Hz	
Servo Preposition Time: 0 Seconds	
Servo Preposition Wait: 0 Seconds	





QuickStart Setup Instructions for Case IH Pro 700 with AccuControl

Pro 700 & AccuControl Operation or Liquid Application

To start applying product:

Go to Toolbox>AccuCtrl>Default Speed - Enter a default speed. The applicator will default to this speed if all ground speed sources are lost. The Master Apply button may need to be cycled twice to start the application.

1. Preparation

- Insert a data card in the display.
- Create or Select a Grower/Farm/Field/Task & Crop Type

(Performance > Profile

2. Product Setup: Toolbox > Product

- Name the product (Example: 28-0-0)
- Select the form for the product (Liquid)
- Select Usage (Fertilizer)
- Enter Default Application Rate
- Enter Minimum and Maximum Application Rate.



3. Product Layer Assignment: Work Condition > Layer to assign a product to a control section of the applicator

- Select or Create a Work Condition.
- Select Layer 1 Control Type (AccuControl Liquid)
- Select Product for Layer 1 Control
- Select Container if using the Container
- Assign additional layers if needed.

4. Controller Setup—Liquid: Work Condition > Control

- Verify Implement
- Verify Work Condition
- Select Controller—Liquid
- Product Delay-Default is 1 .0 sec.
- Enter the Minimum Speed (if the speed drops below this, the applicator will keep applying at this speed)
- Enter a value for Off-target Alarm Limit (probably 15-20%)

5. Enable Application: Run Screens

- Liquid Op Mode—Select Liquid
- Read the safety message and press Accept.
- Master Control—Press Apply on display or switch on Master Switch on switchbox (if equipped)

6. Liquid Rate Control

- Liquid Control defaulted to ON
- Increase or decrease rate if needed
- Automatic rate control (prescription) is assigned in



QuickStart Setup Instructions for Case IH Pro 700 with AccuControl

These are only example screen shots. Your system may vary and not require these particular settings, or it may require settings not shown in this document.

Please check your Case IH Pro 700 display manual and your AFS AccuControl manual for more information about our setup.

Container Setup (Example) Toolbox - Container

The screenshot shows the 'Container Setup' screen. On the left, there is a sidebar with various icons and a list of settings: 'Liq Flw Rt Scn' (0.0 gpm), '10-34- Avg Rt' (----- gal/ac), 'AccuCtrl Speed' (0.0 mph), 'Liq Ctrl All Sect' (7.000 gal/ac), and 'Master Control' (Apply). The main area is titled 'Container Setup' and contains the following fields: 'Container' (TANK), 'Type' (Volume), 'Capacity' (500.0 gal), 'Units' (gal), 'Level' (0.0 gal), 'Warning Type' (Value), 'Warning Level' (50.0 gal), and 'Time Tracking' (Disabled). At the bottom, there is a 'TANK' label and a '0.0 gal' value. The bottom navigation bar includes buttons for 'Back', 'NAV-S', 'NAV-P', 'ATurn', 'Manual', 'Product', and 'Contrr'.

Work Condition (Example) Toolbox - Operate

The screenshot shows the 'Liquid Operation Setup' screen. It is divided into two columns: 'Implement' and 'Work Condition'. The 'Implement' column shows 'AGXCEL LIQ TOOLBAR' and 'Auto Sec Enable' (Yes). The 'Work Condition' column shows 'LIQUID', 'Prime Speed' (3.0 mph), 'Fault Speed' (Slow), 'Stop Beeps' (1 beeps), and 'Intent. Overlap' (0 Rows). The bottom navigation bar includes buttons for 'Layer', 'Valve Cal', 'Operate', 'Control', and 'Liq Cal'.

Implement Setup (Example) Toolbox - Implement

The screenshot shows the 'Implement setup' screen. It is divided into two columns: 'Implement' and 'Work Condition'. The 'Implement' column shows 'AGXCEL LIQ TOOLBAR', 'Implement Type' (Hitch Implement), 'Impl. Width' (510.0 in), 'Impl. Offset' (0.0 in), and 'Max Steer Angle' (55°). The 'Work Condition' column shows 'LIQUID', 'Swath Width' (510.0 in), and 'Bar Distance' (510.0 in). The bottom navigation bar includes buttons for 'Back', 'Disp', 'Oper', 'Layout', 'Service', 'Impl', and 'Vehicle'.



QuickStart Setup Instructions for Case IH Pro 700 with AccuControl

AccuControl Liquid Calibration
Implement and Work Condition should be set before proceeding. Go to Work Condition Screen to set Work Condition. Press Next for Next Calibration Step.

Implement	Work Condition
AGXCEL LIQ TOOLBAR	LIQUID

Liquid Op Mode: **Liquid** (Master Control) [Apply] (Prime Control) [Prime]

Next

Back Hitch Layer Valve Cal Operate Control Liq Cal

Left sidebar:
Liq Flw Rt Scn: 0.0 gpm
10-34- Avg Rt: gal/ac
AccuCtrl Speed: 0.0 mph
Liq Ctrl All Sect: 7.000 gal/ac
Master Control: [Apply]

To run a system flow test, Go to **Work Condition > Liquid Cal**. From here, ensure that you set the **Liquid Op Mode** to **Liquid** before proceeding to the next page.

Enter a Speed and a Rate that you would like to simulate for this test...

AccuControl Liquid Calibration
Insert the Meter Cal # from the Tag on Meter or Encoder. Set the Target Rate. Proceed to Next Page.

Serial Number	Meter Cal Value
5924570230	22.0 Pulses/Gal

Simulated Speed	Target Rate
7.0 mph	7.00 gal/ac

Back Next

Back Hitch Layer Valve Cal Operate Control Liq Cal

Left sidebar:
Liq Flw Rt Scn: 0.0 gpm
10-34- Avg Rt: gal/ac
AccuCtrl Speed: 0.0 mph
Liq Ctrl All Sect: 7.000 gal/ac
Master Control: [Apply]

Once your desired rate has been entered, you can start the system by pressing the Start button. Ensure that your master switch is enabled.

AccuControl Liquid Calibration
Prime the system prior to performing the calibration run. Set Mode to Calibrate and be prepared to measure the system output. On completion of calibration run - Enter System Actual Output. Select Update Cal to modify Meter Cal Value.

Mode	Product Control
Calibrate	Start

Measured Output	Actual Output
0.0 gallons	0.0 gallons

% Change	Meter Cal Value
0.0 %	22.0 Pulses/Gal

Update Meter Value [Update]

Back

Back Hitch Layer Valve Cal Operate Control Liq Cal

Left sidebar:
Liq Flw Rt Scn: 0.0 gpm
10-34- Avg Rt: gal/ac
AccuCtrl Speed: 0.0 mph
Liq Ctrl All Sect: 7.000 gal/ac
Master Control: [Apply]



AGXCEL CASE IH

PRO 700 LIQUID ECU INTEGRATION HARNESS

12-PIN DELPHI TO TWIN 16-PIN ROUND CONNECTION

SECTIONS



01	VALVE GROUND
02	SECTION 02
03	SECTION 03
04	SECTION 04
05	
06	
07	
08	
09	
10	
11	
12	
13	
14	VALVE POWER
15	SECTION 01
16	VALVE POWER

Agxcel #55209
317-050

12-PIN CONNECTOR



+12V SENSOR	A
FLOW SIGNAL	B
FLOW GROUND	C
+12V POWER	D
PWM +	E
	F
	G
-12V GROUND	H
SECTION 01	J
SECTION 02	K
SECTION 03	L
SECTION 04	M

Wire Size: 18G
Length: 2ft

PUMP



01	GROUND
02	
03	PWM+
04	PWM -
05	
06	SECTION 01
07	
08	
09	
10	
11	FLOW GROUND
12	+12V SENSOR
13	FLOW SIGNAL
14	
15	
16	POWER

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