

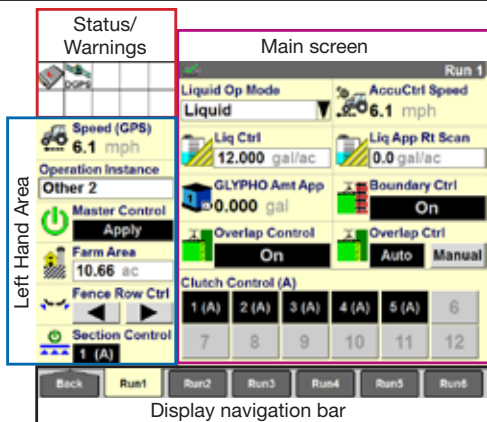
AFS AccuControl Sprayer AFS Pro 700 Quick Reference Card (v28.* and after)

REQUIREMENTS

The following actions are required for proper operation. Working through this document in order will properly set up your sprayer systems for spraying. This guide is to be used as quick reference only. Insert a data card in the display before turning the display on.

1 – GENERAL NAVIGATION

1.1 Main Screens



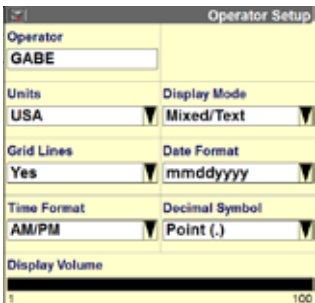
2 – SET-UP SCREENS

2.1 Operator



Toolbox>Oper

- Create an operator.
- Select preferred units of measurement.

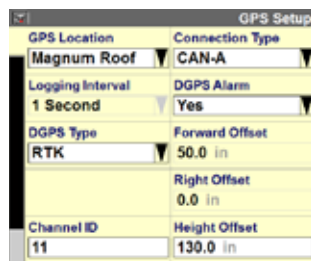


2.2 GPS Setup



Toolbox>GPS

- Verify GPS Location
- Verify Offsets
- Verify DGPS Type



3 – SPRAYER CONFIGURATION



Toolbox>AccuControl

NOTE: Activation is required (Toolbox>Activate) prior to these steps.

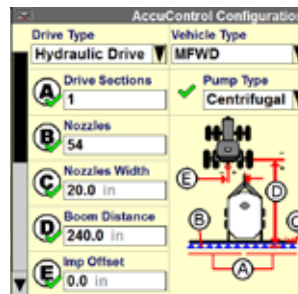
3.1 Basic Setup

- Select AccuCtrl Operation [Liquid]
- Select AccuCtrl Installed [Yes]
- Create New Implement
- Select Implement Type [Sprayer]



3.2 Implement Configuration

- Press 'Setup'
- Select Drive Type
- Select Vehicle Type
- Set Pump Type [Centrifugal]
- Set Number of Drive Sections [A]



NOTE! Section/Boom Valve Control information entered in 3.3.

- Set Total Number of Nozzles [B]
- Enter Nozzle Width [C]
- Enter Boom Distance in Inches (axle to liquid drop) [D]

NOTE! Verify GPS Offset (Toolbox>GPS)

- Measure Implement Right/Left Offset [E]
- Select if Fence Row Nozzles Installed & Width
- Enter Nozzles Per Section
- Press 'Done'

NOTE: The next setup steps may or may not be needed. The configuration of the Sprayer determines the need for set-up. If the Sprayer is not equipped with the capability, leave the setup as 'No'.

3 – SPRAYER CONFIGURATION – continued

3.3 Section Control Setup (If equipped with Section Control Valves)

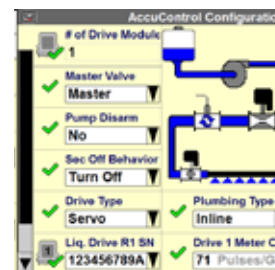
- Select Row Clutch [Yes]
- Press 'Setup'
- Select number of SC Control Modules
- Assign Fence Row Outputs (if equipped)
- Assign Module Serial Numbers (starting w/modules on LH side)
- Assign Nozzles Per Output (Number of Nozzles per Group)
- Select Control Polarity



NOTE: Active On is common for Section Control Valves. Active Off is common for LiquiBlock Valves.

3.4 Liquid Drive Set-up (If equipped)

- Select Liquid Drive [Yes]
- Press 'Setup'
- Select Drive Type [PWM or Servo]
- Select Plumbing Type [Inline or Bypass] (If Servo Drive Type)
- Assign Liq Drive Serial Numbers (starting w/modules on LH side)
- Select Master Valve Type
- Select Pump Disarm
- Select Sec Off Behavior [Lock at Last or Turn Off]
- Enter Drive Meter Cal Number (Pulses/Gal)



Note: Pulses/gallon will be found on the liquid flow meter. Some flow meters are measure in pulses/10 gallons. If this is the case, divide that value by 10 to find pulses/gallon.

- Press 'Done'

3.5 Master Switch Box (If equipped with External Switch Box)

- Select Master Sw Box [Yes]
- Press 'Setup'
- Verify Serial Number of Switch Box
- Select Footswitch (if installed)
- Press "Done"

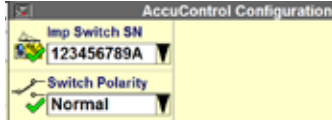
Note: Rate 1/ Rate 2/Manual Switch is not functional. All other switches are functional.



3 – SPRAYER CONFIGURATION – continued

3.6 Implement Switch (If equipped with Sprayer Mounted Implement Switch)

- Select Imp Switch [Yes]
- Press 'Setup'
- Select Imp Switch Serial Number
- Select Switch Polarity

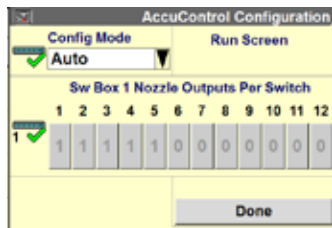


Note: Determine by raising and lowering the implement and watch the Implement Status Arrow in Status/Warning Area for proper operation.

- Press 'Done'

3.7 Section Switch Box (If equipped with External Section Switch Box or desire Manual Section Control through Run Screens)

- Select Section Switch Box [Yes]
- Press 'Setup'
- Select Config Mode [Auto] or [Manual] for custom
- Verify Sw Box Serial Number (if equipped w/ external switchbox)



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

4 – WORK CONDITION – REQUIRED FOR OPERATION



Work Condition>Layer

IMPORTANT! The settings below are linked to a work condition. These must be selected or checked whenever a work condition is created/changed: product type, application rate, drive settings, product delay, product layer control and product control.

NOTE! A work condition name could be the current work practice, crop type (spray corn, spray soybeans, etc.), field condition, or weather condition, etc.

NOTE! This setup is required for logging/ mapping data and using Overlap & Boundary Control.

4.1 Preparation

- Insert a data card in the display
- Create/Select a Grower/Farm/Field/Task & Crop Type (Performance > Profile)

4 – WORK CONDITION – REQUIRED FOR OPERATION – cont'd

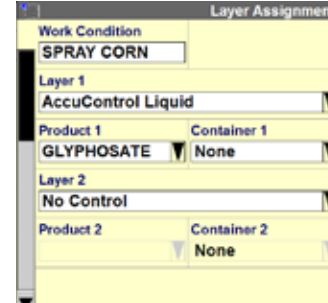
4.3 Product Layer Assignment



Work Condition>Layer

Assign a product to a control section of the Sprayer.

- Select/Create a Work Condition.
- Select Layer 1 Control Type [AccuControl Liquid].
- Select Product for Layer 1 Control

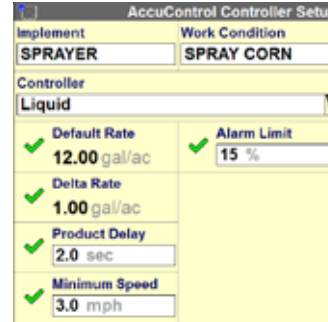


4.4 Controller Setup – Liquid (if equipped)



Work Condition>Layer

- Verify Implement
- Verify Work Condition
- Select Controller [Liquid]
- Product Delay – Default 2.0 sec. (see section 7 for Product Delay Measurement procedure)
- Enter the Minimum Speed (if ground speed drops below this speed, sprayer will apply at this set speed)
- Enter value for Off-target Alarm Limit



5 – CALIBRATIONS (If equipped with liquid rate control)

5.1 Valve Calibration



Work Condition>Valve Cal

Note: Vehicle & controlling components should be at normal operating temp/conditions for these calibrations.

- Select Drive Number to Calibrate
- Press 'Start'
- Repeat for other drives



5 – CALIBRATIONS (If equipped with liquid rate control) – cont'd

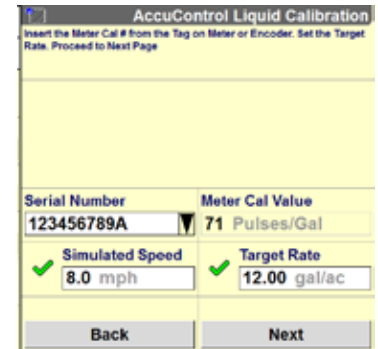
5.2 Liquid Calibration



Work Condition>Liquid Cal

NOTE! Verify Spray Tip Selection and Install Correct Spray Tips according to Application Rate, Desired Ground Speed, & Pressure Prior to Performing this Calibration.

- Verify Implement
- Verify Work Condition
- Select Liquid Op Mode – [Liquid] (Accept Safety Warning if agreed)
- Press Master Control – 'Apply' Button
- Press 'Next'
- Verify Control Module Serial Number
- Verify Meter Cal Value (change in Toolbox>AccuCtrl>Liquid Drive Setup)
- Enter Simulated Speed (Typical Spraying Speed)
- Enter Target Rate
- Prime system
- Press 'Next'
- Place Catch Buckets Under Each Boom Valve Section of Sprayer
- Manually Measure Collected Product and Calculate Total Amount Applied Across Entire Width of Drive Section (in Gal or L)
- Enter [Actual Output]
- Press 'Update' Button to update the Meter Value
- Repeat if Needed.



Record calibration values here, if desired

USAGE	CAL VALUE

6 – OPERATION

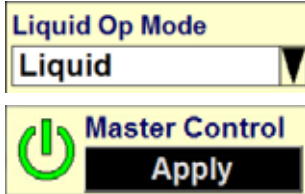
6.1 Enable Spraying



Run screens

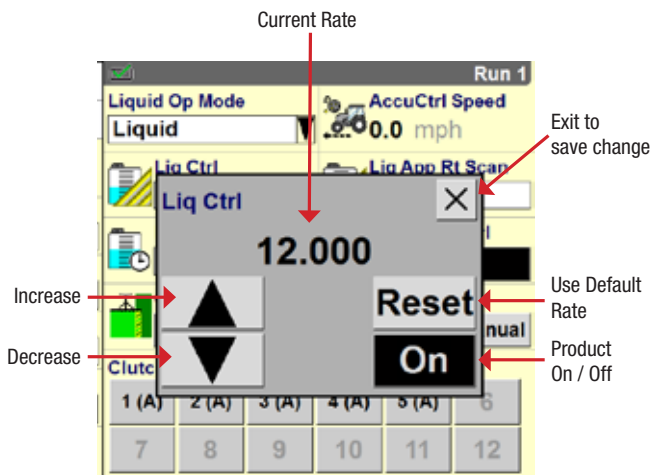
Note: Most windows will need to be placed on the run screen (**Toolbox>Layout**).

- Liquid Op Mode - Select [Liquid]
- Read Safety message & press 'Accept' if agreed
- Master Control - Press 'Apply' on display or switch on master switch on switchbox (if equipped)



6.2 Liquid Rate Control (If equipped)

- 'Liq Ctrl' Defaulted to 'On'
- Increase or decrease rate, if needed
- Automatic rate control (prescription) assigned in **Performance>Rx Setup**



6.3 Prime Control (If equipped w/ Liquid Ctrl)

Prime is used to fill the system so no gap is left in the field when starting.

Note: Window may not be available in v28.* software versions. If not available, use the start button found in **Toolbox>Liquid Cal** to prime.

- Press the Prime button for 3 sec.
- Wait for prime icon in warning area to stop flashing
- System is primed



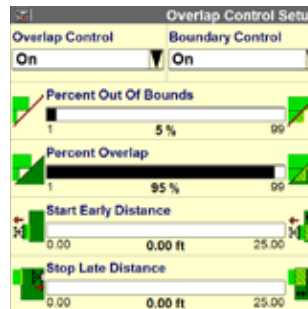
7 - OVERLAP/BOUNDARY CONTROL

7.1 Overlap/Boundary Control



Toolbox>Overlap

- Turn overlap control on.
- Turn boundary control on (requires a created boundary)
- Set % for out of bounds.
- Set % of overlap for shutoff.
- Set start early distance to 0 ft
- Set stop late distance to 0 ft.



IMPORTANT! Product delay must be measured and set correctly before adjusting start early/stop late values.

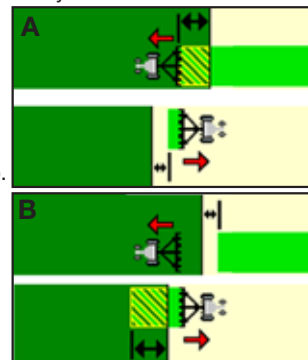
7.2 Product Delay Adjustment



Work Condition>Control>Liquid

Before making any adjustments to the Product Delay, make sure GPS offsets & Bar Distance is entered correctly.

- Position an observer at edge of coverage area (safe distance from the booms).
- Drive the sprayer into and out of coverage area at a normal operating speed to test overlap control.
- Estimate the amount of error and determine whether the overlap decision was made too early or too late:
 - **Too early (A), Decrease Product Delay:** gap when entering a headland (or exiting the field boundary) and over-applies when leaving a headland (or entering the field boundary).
 - **Too late (B), Increase Product Delay:** over-applies when entering a headland (or exiting the field boundary) and leaves a gap when leaving a headland (or entering the field boundary).



- If exact measurement of error is determined use this formula to convert this distance to a new Product Delay (PD):

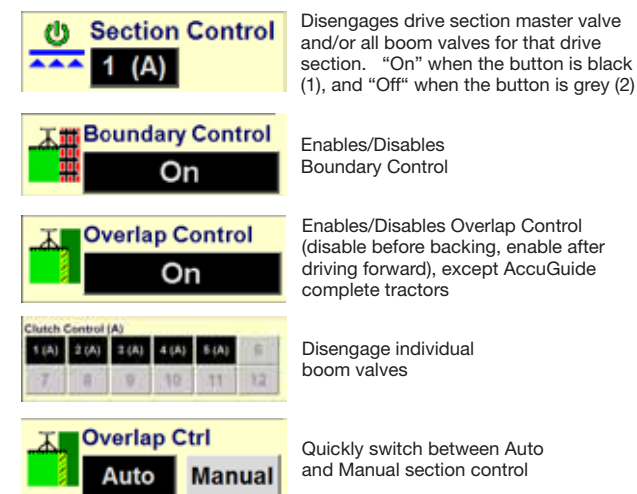
$$\frac{\text{In. of error}}{\text{Vehicle mph} \times 17.52} = \text{New PD (sec)}$$
- Adjust Start Early/Stop Late distance for intentional overlap. If a negative number seems to be required for SE/SL, remeasure & adjust Product Delay.

7 - OVERLAP/BOUNDARY CONTROL – continued

7.3 Running Overlap/Boundary Ctrl



NOTE! The following windows can be located on the Run screens.



NOTE! (A) must be present for Auto Overlap and Boundary Control to function. If (M) is present, Auto Overlap and Boundary control will not work!

TIPS

- A data card must be inserted in to the display.
- Check GPS Offset, Bar Distance, Product Delay, and check that a product is assigned to a layer for Overlap & Boundary control to function properly.
- "(A)" must be present in a window for Auto mode.
- Disable Overlap Ctrl before backing into corners, etc. Re-enable after moving forward. Turning off Overlap Control before backing up is not required with tractors that have Case IH Factory AccuGuideAutoGuidance.

AFS-8034-13e Replaces: None

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