

## PinPoint™ II Settings for Apache Sprayers (2020 and After)

Use the settings below as a starting point for tuning the system.

### Viper 4 Settings

Product Settings:	
Valve Type:	PWM
Min Pump PWM:	30
Max Pump PWM:	80
Standby Pump PWM:	Disabled (Uncheck Box)
Response Sensitivity:	79 (Recommended Starting Point)
Deadband:	2%
Pressure Settings:	
Response Rate:	50 (Recommended Starting Point)
Minimum Pressure:	10 PSI
Maximum Pressure:	150 PSI
Boom Pressure Cal:	Calibrate Appropriately
Advanced Pressure Calibration:	
Pressure Sensor:	Boom
Pressure Sensor Range:	(0-250) PSI

### CapView Display Settings

#### System Setup Menu

Line Number	Line Name	Actual Setting
1	Operation Mode	Synchro (Make sure that the correct Operation Mode is selected)
2	Controller Gallon Counter	
3	Actual Gallon Counter	
4	Controller Acre Counter	
5	Actual Acre Counter	
6	Controller Gallons Per Minute	
7	Actual Gallons Per Minute	
8	Nozzle Control (Key FOB)	12V Active
9	Pressure 1	
10	System Voltage	
11	Display Backlight	10
12	LED Brightness	5
13	Beeper Volume	5
14	Specific Gravity	1
15	Valve Diagnostics Enable	Enable
16	Overlap Distance	60 Inches
17	Rate Sync Mode	Disable
18	Rate Sync Average	0.1
19	Rate Max Ground Speed	21 mph
20	Units	US (PSI)
21	Baud Rate	
22	Revision Information	
23	Language	English
24	Previous Error Lists	

Advanced Setting Lines 10, 15, 25, 27, 28, 33, 37, 41, 42, and 43 will differ from the default values that load with a factory reset.

### CapView Display Settings Continued

#### Advanced Settings—Synchro Mode

Line Number	Line Name	Actual Setting
1	Hour Meter	
2	Compass Heading	
3	Compass Offset	0 Degrees
4	USB Mode	Thumb Drive
5	Deadband Pressure	2 PSI
6	Gain - System	2
7	Gain - Proportional	9.5
8	Gain - Integral	0.9
9	Gain - Differential	0
10	Total Number Valve Expected	Enter the total number of nozzles
11	Scrolling Enable/Disable	Enabled
12	GPS - Antenna Ahead Of Rear Axle	0 Inches
13	GPS - Antenna Right Of Center	
14	GPS - Antenna Above Ground	
15	GPS - Boom Head Of Rear Axle	-78 <b>NOTE:</b> May vary on HS model sprayers
16	Forward/Reverse Detection	OFF=FWD REV Switch
17	Look Ahead Time	0.3 s
18	Zero Rate Shutoff	Minimum PWM %
19	Pressure Control Hold	Disable
20	Pressure Sensor 1 Min. Volt	0.5 V
21	Pressure Sensor 1 Max. Volt	5.0 V
22	Pressure Sensor 1 Min. PSI	0 PSI
23	Pressure Sensor 1 Max. PSI	100 PSI
24	Pressure Sensor 1 Offset	0.0 PSI
25	Servo Type	PWM Ground
26	Manual Mode Servo Speed	50%
27	Servo Minimum DC%	30 (Must match rate controller value)
28	Servo Maximum DC%	80 (Must match rate controller value)
29	Pump Speed Limit	Disabled
30	Pump Seal Shutdown	3.0 PSI
31	Nozzle PWM% Cycle Time	4.0 s
32	Nozzle Pulse Frequency	10.0 Pulse/s
33	Nozzle PWM Minimum	15%
34	Nozzle PWM Maximum	100%
35	Flowmeter Minimum GPM	10 GPM
36	Flowmeter Output Type	Correction
37	Flowmeter Calibration	Enter the correct value
38	Flowmeter Error Limit	Disabled
39	Flowmeter Error	0%
40	Minimum Valves On	1 Valve
41	Navigation IMU	Enabled
42	Pressure Command	Enabled
43	GPS Lag Time	0.3 s
44	Factory Reset	
45	Contact Information	