

## EVO™ Settings for Apache Sprayers (2020 and After)

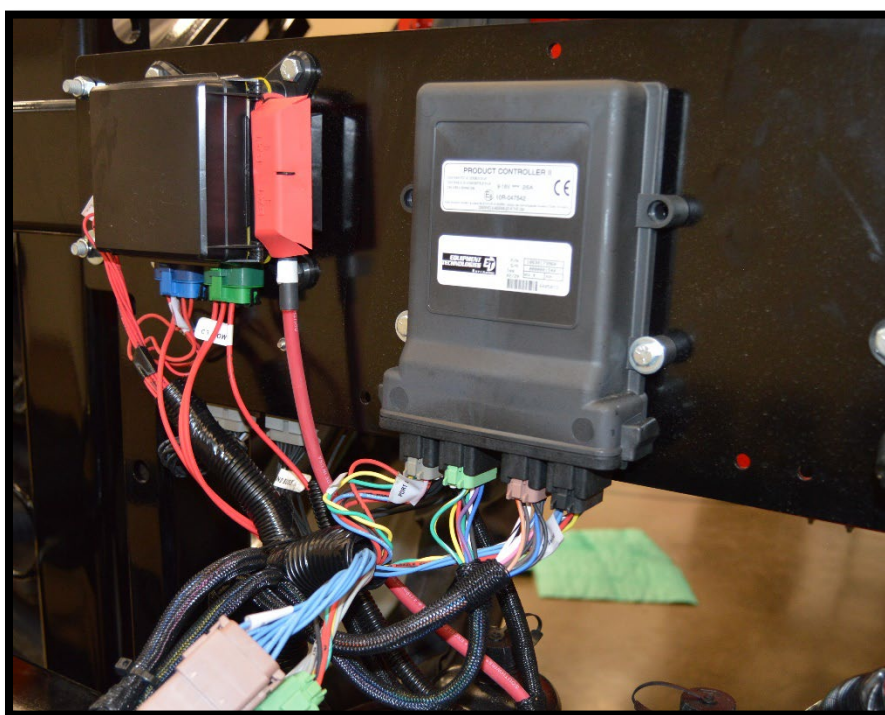
Use the settings below to start programming the rate controller and the EVO on your machine.

**NOTE:** The rate controller settings shown on the Viper 4 are different for each rate controller type.

### Software version information

Rate Controller Type	Rate Controller Software Version	EVO System Software Version
RCM	21.2.0.3	1.1.55
PC2 Node	Any After 2.3.0.31	1.1.53 or After

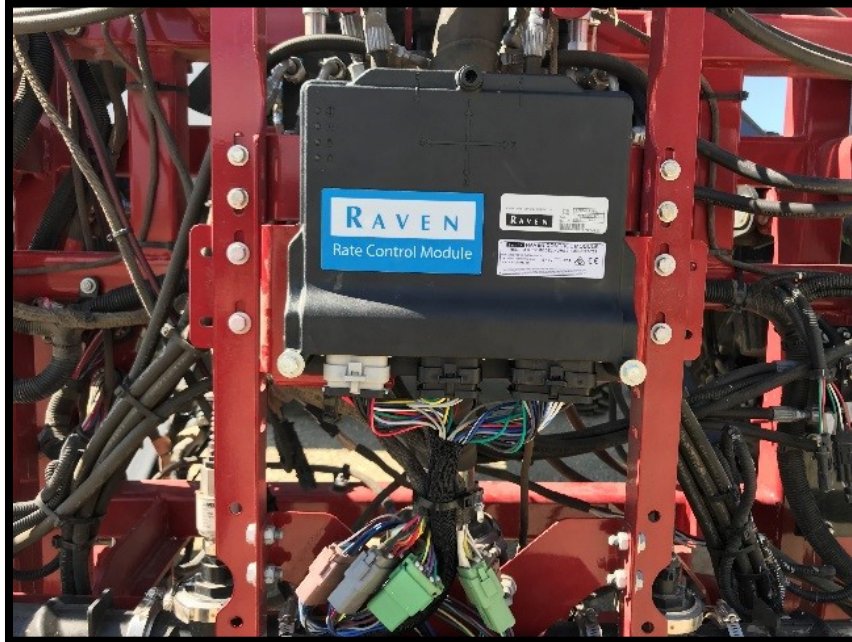
### Viper 4 Settings for the PC2 Node



<b>User Settings:</b>	
<b>PWM High Side Drive:</b>	Enabled (Checked Box)
<b>Product Settings:</b>	
<b>Valve Type:</b>	PWM
<b>Min Pump PWM:</b>	30
<b>Max Pump PWM:</b>	80
<b>Standby Pump PWM:</b>	Disabled (Unchecked Box)
<b>Response Sensitivity:</b>	79 (Recommended Starting Point)
<b>Deadband:</b>	2%
<b>Pressure Settings:</b>	
<b>Response Rate:</b>	50 (Recommended Starting Point)
<b>Minimum Pressure:</b>	10 PSI
<b>Maximum Pressure:</b>	150 PSI

<b>Boom Pressure Cal:</b>	Calibrate Appropriately (Turn the CapView off and calibrate with the pump shut off and the booms discharged completely)
<b>Advanced Pressure Calibration:</b>	
<b>Pressure Sensor:</b>	Boom
<b>Pressure Sensor Range:</b>	(0-250) PSI

### Viper 4 Settings for the RCM



<b>Control Valve Setup</b>	
<b>Control Valve Type:</b>	PWM
<b>Valve Response Rate (1-100):</b>	75 (Recommended Starting Point)
<b>Control Deadband:</b>	1
<b>PWM Setup</b>	
<b>PWM High Limit:</b>	80
<b>PWM Low limit:</b>	30
<b>Standby Pump PWM:</b>	Disabled (Unchecked Box)
<b>PWM High Side drive:</b>	Enabled (Checked Box)
<b>Pressure Setup</b>	
<b>Boom Pressure:</b>	0-250
<b>Minimum Pressure:</b>	10
<b>Maximum Pressure:</b>	120
<b>Minimum Pressure Alarm:</b>	Disabled (Unchecked Box)
<b>Maximum Pressure Alarm:</b>	Disabled (Unchecked Box)

## EVO Display Settings

Main Menu	
<b>Backlight:</b>	5
<b>Alarm Volume:</b>	3
<b>Turn Compensation:</b>	On
<b>Rate Sync:</b>	On
<b>Pressure Increment:</b>	5 psi
Advanced Menu	
<b>System Gain:</b>	5.0
<b>P-Gain:</b>	5
<b>I-Gain:</b>	0.25
<b>Nozzle Hold Delay:</b>	0 sec
<b>Low Pressure Shutoff:</b>	8 psi
<b>PWM Frequency:</b>	10 Hz
<b>Valve Open Time:</b>	20 ms with 12-watt valves
<b>Units:</b>	US (psi)
<b>Nozzle Valve Spacing:</b>	Program per system configuration
<b>Module Location Menu:</b>	Program per system configuration
<b>Section Size Menu:</b>	Program per system configuration
GPS Menu:	
<b>GPS Source:</b>	SERIAL
<b>Boom Type:</b>	FIXED
<b>GPS to Axle:</b>	0
<b>Trailer Hitch to Axle:</b>	0
<b>Trailer2 Hitch to Axle:</b>	0
Pump/Servo Menu:	
<b>Servo Type:</b>	PWM
<b>Servo Min:</b>	30
<b>Servo Max:</b>	80
<b>Nozzle Cycle Time:</b>	0.1 sec
<b>Servo Hold Delay:</b>	0 sec
<b>Input Current Load:</b>	Off
<b>Low Flow Menu:</b>	Disabled
PSI Module Menu:	
<b>Sensor Module:</b>	CMD
<b>Sensor Offset:</b>	0 psi
<b>Sensor Volt Min:</b>	1 volts
<b>Sensor Volt Max:</b>	5 volts

	<b>Sensor Pressure Min:</b>	0 psi
	<b>Sensor Pressure Max:</b>	250 psi
	<b>Pressure Command:</b>	On
	<b>Navigation IMU:</b>	Off