FAST MAG SOLUTIONS

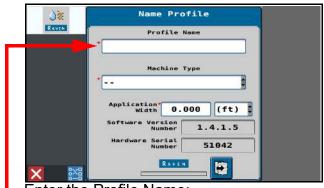


RAVEN RCM SETUP MANUAL



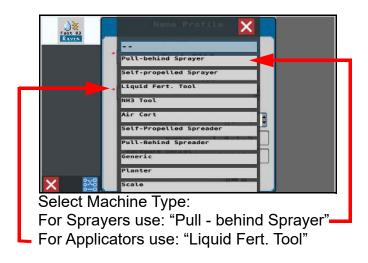


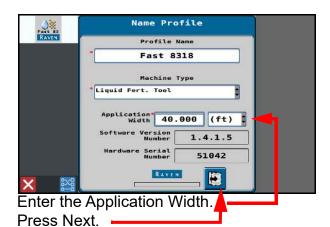
RAVEN RCM SETUP



Enter the Profile Name: FAST + Model Number

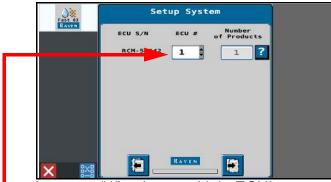
(Example: FAST 9518T, FAST 8313)





FAST GLOBAL SOLUTIONS





Leave at "1" unless multiple ECU's are used.





Choose Application Mode.

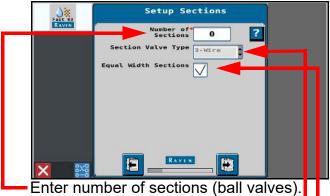


FAST products only use "Liquid".



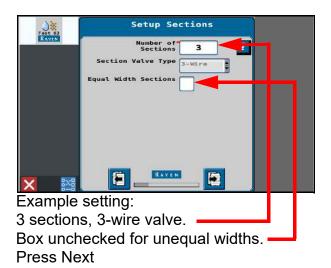
Liquid choice selected.





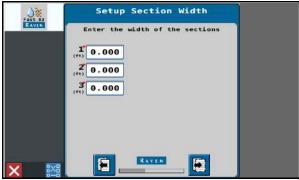
FAST only uses "3-wire" valves.

If the sections are unequal widths, uncheck the box.









Enter the width of the sections.

For Sprayers: Enter number of tips per section x spacing = width of section.

The sum of the sections must equal the application width entered on (page 1).



FOR APPLICATORS:

16 row, 17 coulter example, 30" spacing.

Section 1 = 5 full rate coulters = 150".

5 x 30" = 150"

1 half rate coulter = 15".

150" + 15" = 165"

165" / 12" = 13.75 feet

Section 2 = 5 full rate coulters = 150".

5 x 30" = 150"

150" / 12" = 12.50 feet

Section 3 = 5 full rate coulters = 150".

5 x 30" = 150"

1 half rate coulter = 15".

150" + 15" = 165"

165" / 12" = 13.75 feet

16 row, 15 coulter example, 30" spacing.

Section 1 = 4 full rate coulters = 120".

4 x 30" = 120"

1.5 rate coulter = 45".

120" + 45" = 165"

165" / 12" = 13.75 feet

Section 2 = 5 full rate coulters = 150".

5 x 30" = 150"

150" / 12" = 12.50 feet

Section 3 = 4 full rate coulters = 120".

4 x 30" = 120"

1.5 rate coulter = 45".

120" + 45" = 165"

165" / 12" = 13.75 feet

The sum of the sections must equal the application rate entered on page 1.



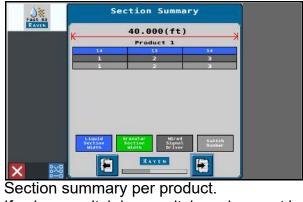




Not used unless there are special requirements.







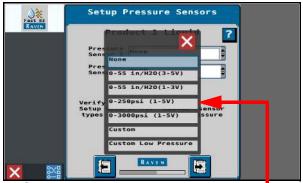
If using a switch box, switch assignment is entered here.







Choose pressure sensor if installed.



FAST only uses 0-250 psi. Press Next.







FAST does not use auxiliary functions, leave unchecked.







Standard control valve setup.



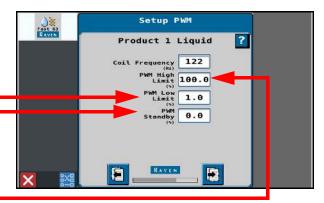
If machine has a PWM pump, choose "PWM".







If using ACE PWM pump, change the coil frequency to 122.



Max Pump PWM:

Enter a maximum PWM duty cycle percent to set the maximum desired output for a pulse width modulated (PWM) hydraulic control valve. This setting limits how far the PWM valve will open.

(Typically set at 100 psi. deadhead.)

Min Pump PWM:

Enter a minimum PWM duty cycle percent to set the minimum desired output (zero point or shutoff point) for a pulse width modulated (PWM) hydraulic control valve). (Typically set at 20 psi. deadhead.)

PWM Standby:

Enter desired control valve PWM duty cycle percent when all sections are off. This is utilized when standby pressure control is not available (pressure sensor not available or direct injection is installed).

(Typically set at within 10 psi of spray pressure.)



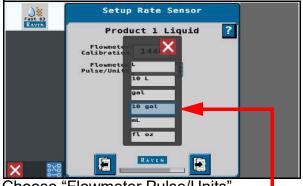




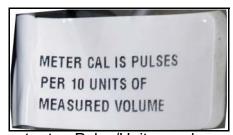
Enter calibration number found on the flowmeter tag. -



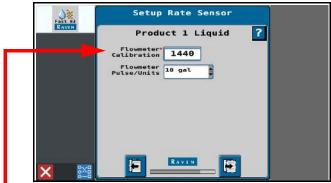
Flowmeter tag calibration number.



Choose "Flowmeter Pulse/Units".



Flowmeter tag Pulse/Units number.

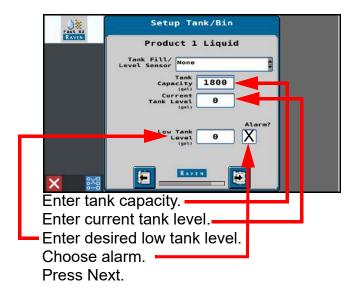


Flowmeter calibration number entered. Flowmeter Pulse/Units number entered. Press Next.



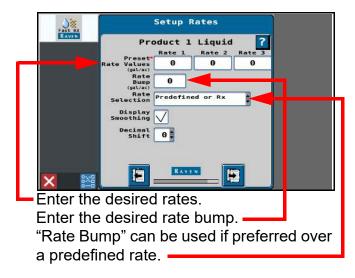


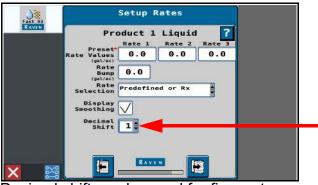
FAST does not use a tank fill sensor.











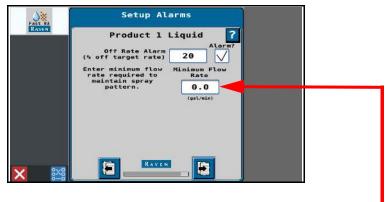
Decimal shift can be used for finer rates.



Example settings.







NOTE: This setting will vary based on tip selection.

Sprayers:

Nozzle capacity at minimum psi, multiply by the number of nozzles.

Example:

For FAST installed tips, see tip chart.

.18 x (number of tips) = minimum flow rate.

Applicators:

Can be run without entering a minimum flow rate, but if desired, the same formula should be used.

	PSI	DROP SIZE	CAPACITY ONE NOZZLE IN GPM		CAPACITY ONE NOZZLE IN OZ./MIN.	4 MPH	5 MPH	6 MP
	15 20	UC	0.0	92	12	6.8	5.5	4.6
	20	UC	0.	92 1	14	8.2	5.5 6.5	5.4
	30	UC	0.	3	17	9.7	7.7	6.4
TTI110015	40	UC	0.	5	19	11.1	8.9	7.4 8.4
(100)	50	UC	0.	3 5 7 8	22	12.6	10.1	8.4
	60	XC	0.	8	23	13.4	10.7	8.9
	70	XC	0.2	0	26	14.9	11.9	9.9
	80	XC	0.3	1 3 4 2	27	15.6	12.5	10.4
	90	XC	0	3	29	17.1	13.7	11.4
	100	XC	0.:	4	31	17.8	14.3	11.9
TTI11002	15 20	UC UC	0. 0.	4	15 18	8.9 10.4	7.1 8.3	5.9 6.9
	30	UC	0.	7	22	12.6	10.1	8.4
	40	UC	0.	ń	26	14.9	11.9	9.9
	50	IIC	0.	2	28	16.3	13.1	10.9
(84)	60	ŰČ	0.	4	31	17.8	14.3	11.0
(50)	70	XC	ő.	6	33	19.3	15.4	11.9 12.9
	80	XC	0.3	8	36	21	16.6	13.9
	90	XČ	0.	7 0 2 4 6 8	38	22	17.8	14.9
	100	XC	0.	2	41	24	19.0	15.8
	15	UC	0.	2 5 8 2 5 8 1 3	19	11.1	8.9	7.4
	20	UC	0.	8	23	13.4	10.7	8.9
	30	UC	0	2	28	16.3	13.1	10.9
TTI110025	40	ÚĆ	0.	5	32	18.6	14.9	12.4
111110025	50	UC	0.3	8	36	21	16.6	13.9
(50)	60	UC	0.	1	40	23	18.4	15.3
	70	XC		3	42	25	19.6	16.3
	80	XC	0	2	45	26	21	17.3
	90 100	XC XC	0.	8	49 51	28 30	23 24	18.8 19.8
	100	VC	0.1		23	13.4	10.7	8.9
	20	UC	0.2		23	15.6	12.5	10.4
	30	UC	0.2	26	33	19.3	15.4	12.9
	40	UC	0.3		38	22	17.8	14.9
TTI11003	50	ŬĈ UC	0.3	34	44	25	20	16.8
(50)	60	ŬČ	0.3		47	27	22	18.3
(50)	70	XC	0.4		51	30	24	19.8
	80	XC	0.4	12	54	31	25	21
	90	XC	0.4		58	33	27	22
	100	XC	0.4		60	35	28	23
TTI11004	15	UC	0.2	24	31	17.8	14.3	11.9
	20	UC	0.2	28	36	21	16.6	13.9
	30	UC	0.3		45	26	21	17.3
	40	UC	0.4		51	30	24	19.8
TITLI IVVA	50	UC	0.4	15	58	33	27	22



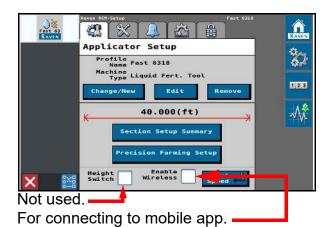




Setup summary page.







FAST GLOBAL SOLUTIONS



NOTES









FAST GLOBAL SOLUTIONS
4130 Commerce Boulevard
Windom, MN 56101
1-800-772-9279 Toll Free
1-507-427-3861 Voice
1-507-427-3030 Fax
www.fastsprayers.com