396-3076Y1 QuickStart Card
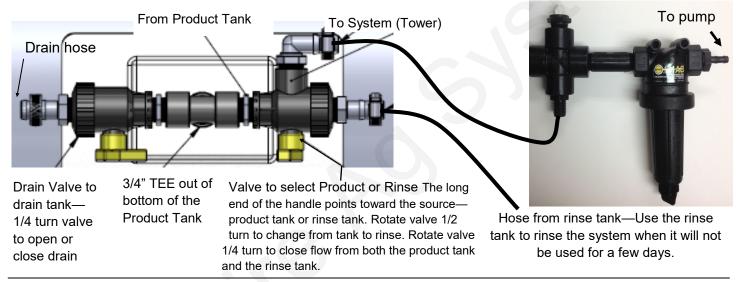
SureFire Ag Systems

SureFire *Catalyst™* Electric Pump System for Commander II

Note: The flowmeter will be set to measure ounces. All screens that say gallons or gal/acre will actually be showing ounces, not gallons.
The settings shown here are typically good settings to begin with. Actual settings on your system may vary from those shown here. Adjust settings as necessary in the field to get the best operation from your system.

For screenshots and more complete system information and explanation, see the full manual for this system.

Plumbing detail shown below: Picture on left shows plumbing on bottom of product tank.

Drain hose
From Product Tank
To System (Tower)
To pump

Drain Valve to drain tank—1/4 turn valve to open or close drain

3/4" TEE out of bottom of the Product Tank

Valve to select Product or Rinse The long end of the handle points toward the source—product tank or rinse tank. Rotate valve 1/2 turn to change from tank to rinse. Rotate valve 1/4 turn to close flow from both the product tank and the rinse tank.

Hose from rinse tank—Use the rinse tank to rinse the system when it will not be used for a few days.

IMPORTANT: Note the difference between CAL mode and SPEC CAL mode.

*With the controller on, **to enter CAL mode**, press and hold the CAL button until the red light comes on. To save changes and exit CAL, press and hold the CAL button until the light goes out.*

To enter SPECIAL CAL mode. *Turn the Commander II OFF. Press and hold the AUTO/MAN and CAL buttons while you turn the Commander II ON. As it starts, the screen should read **SPEC**.*

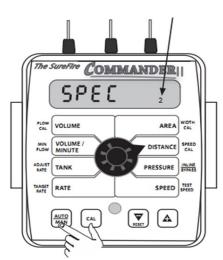*The number on the right side of the screen is the SPEC CAL page number.*

To move to another page, press the CAL button.

To save changes and exit SPEC CAL, hold the CAL button until the red light goes out.

The Commander II has 3 Volume / Area counters. To see the reading, turn the dial to Volume or Area. To move from one counter to the next, press the + key. To reset a counter, press and hold the reset button for 2 seconds while that counter is visible on the screen.

Most applications at 32 oz/ac and 30" rows will use the Purple tube.

For cold weather and/or high speed application, if the pressure generally runs over 40-45 PSI in the purple tube, consider switching to the Blue tube

Parameter	CAL or SPEC CAL	Default (for EP-E)	Setting for Catalyst system	More information on page number
	Summary of Calibration entries and Special Cal Changes for Tower 100 Catalyst			
Flow Cal	**Cal** VOLUME	6000	*355*	24
Section Width	**Cal** AREA (Turn on Boom 1 to set Boom 1)		*Width in inches for each section*	24
Control Speed	**Cal** PRESSURE	-2	*-3*	24
Target Rate	**Cal** RATE	10	*32*	24
Adjust Rate	**Cal** TANK	1	*Any increment*	24
Fill Tank Size (Optional)	**SPEC CAL** 1—VOLUME	Off	*Tank Size (gal x 128)*	25
Tank Alarm Set Point	**SPEC CAL** 1—VOL/MIN	Off	*#GAL x 128 (Optional)*	25
Minimum Flow	**SPEC CAL** 2—TANK	0	*8.0*	26
Rate Smooth	**SPEC CAL** 3—RATE	10	*15*	27
PWM Min	**SPEC CAL** 3—AREA	0	*6*	27
PWM Frequency	**SPEC CAL** 3—PRESSURE	100	*150*	27

With the Flow Cal set as shown above, the Commander II will measure the product in ounces, not gallons. The Target Rate will be set in ounces/acre. The Tank Size and Minimum Flow are also in ounces.

To run the system in **MANUAL mode** (can be used to prime the pump and to rinse the system or for testing)

1. Push the AUTO/MAN button until MAN is displayed on the Commander II. You are now in Manual mode.
2. Put the system in RUN. Turn the console switch to RUN or lower the implement if using a mercury Run/Hold Switch. When HOLD Is not displayed on the screen the system is in RUN.
3. Turn Section 1 switch ON.
4. Open the Air Bleed valve on the Tower. Be prepared to close the valve when water comes out.
5. Turn dial to VOLUME/MINUTE position. Push the "+" button to increase pump speed. Push the "-" button to decrease pump speed.

To operate the Commander II in **Test Speed mode.**

1. Enter calibration mode by pushing and holding the CAL button until CAL is displayed on the Commander II and the red light is on.
2. Push the AUTO/MAN button until AUTO is displayed, indicating you are in automatic mode.
3. Turn the dial to Test Speed in the bottom right corner. Use the + key to adjust to your field operating speed.
4. Turn Run/Hold switch on Commander II to RUN.
5. Turn Run/Hold mercury switch to Run by lowering the implement, unplugging it, or manually tilting the switch.
6. Turn at least Section 1 switch on.
7. Turn the dial to Rate to verify that it is locking on to the Target Rate.
8. You should now be dispensing liquid as if you were traveling through the field at the test speed you entered. *Note: The pressure will be much less with water than it will be with a heavier, thicker product.*