



### **Instructions for all F.A.S.T. Cool Suit Systems**

1. Mount the cooler unit securely so the hoses can reach the driver. Make sure the hoses are not crimped.
2. Connect the power cord to the power source. The positive wire (+) is either Red or Brown. The negative or ground wire (-) is Black.

NOTE: This unit is for 12 volt systems only. Do NOT use this unit with a 16 volt system or the pump will be damaged.

3. For best performance, fill the cooler with ice then put just enough water to have circulation through the shirt, approximately 1 quart. Big chunks of ice will last longer. Home made ice cubes are better than commercial ice made with holes in the center.
4. Attach the hoses to the pump unit using the quick disconnect fittings. You will hear a 'click' when the fittings are securely locked.
5. Put on the water shirt with the tubing on the outside, away from your skin. Put on your drivers suit and route the hoses to the outside of your suit.
6. Attach the hoses to the shirt fittings and turn on the unit. You will hear a 'click' when the fittings are securely locked. You should feel the cooling in ten seconds.

### **Trouble shooting**

1. Check quick disconnects to see if they are properly connected. A 'click' noise indicates that it is securely locked.
2. If the pump is not making any noise, check the electrical connections.
3. Check the hoses to be sure that your seat belt or harness has not crimped the tubing.
4. If the pump is running but not pumping water, check to be sure water is covering the motor strainer.

### **Washing the shirt**

Turn the shirt inside out and place it into the mesh laundry bag (supplied). Wash on gentle cycle using warm or cold water. Dry on permanent press (low heat) or air dry on a hanger.

### **Cooling system maintenance**

Add 1 or 2 tablespoons of bleach to water every other use to prevent algae growth in the shirt tubing. Remember to do this at the last race of each season or before storage.

***Fresh Air Systems Technologies***  
847-255-9200 847-255-9201 (fax)  
888-466-RACE (toll free)  
[www.fastraceproducts.com](http://www.fastraceproducts.com)

Manufacturers of the Drivers System, distributors and jobbers are not responsible for any injury caused by neglect, misuse or malfunction.



Congratulations on the purchase of your new **F.A.S.T.** blower. For years of quality use, please follow the instructions below.

1. Consider the mounting location carefully. Keep the blower away from extreme heat sources such as the engine or the exhaust. Also, be sure to mount the blower where it will draw clean air, free of exhaust gases.
2. Connect the blower to the power source. The negative or ground wire (-) is Black. The other wire is the positive wire (+).

NOTE: This blower is for 12 volt systems only. Do NOT connect this unit directly to a 16 volt system or the blower will be damaged. If your system is 16 volts, the voltage will need to be lowered to 12 volts before the blower is connected to it.

3. Blower orientation  
Race Series Blowers: **F.A.S.T.** recommends that the unit is mounted with the filter on its side or down.  
Pro Series Blowers: **F.A.S.T.** recommends that the unit is mounted with the filter up or on its side. This allows you to pressure wash the vehicle without filling the blower housing and motor with water. Water inside the blower can cause premature failure and this is not covered under warranty.  
Turbo Series Blowers: **F.A.S.T.** recommends mounting to any interior roll bar.

Tips to ensure that the blower is working to its full potential:

1. Cover unit with a plastic bag when washing the vehicle to keep it dry.
2. Do not over tighten hose clamps on Turbo Series. This could cause binding.
3. Washable filters should not be re-oiled. (Race Series)
4. Check filter after each race for debris. Replace the filter at least twice per season.
5. Hoses and ends should be replaced annually.

For best performance of **F.A.S.T.** products, we recommend that your stock helmet be updated with our custom ductwork (FA103). There is up to a 300% increase in airflow. Please call for details.

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### **FA-220A Adjustable Cycle Timer for F.A.S.T. Cool Suit Systems**

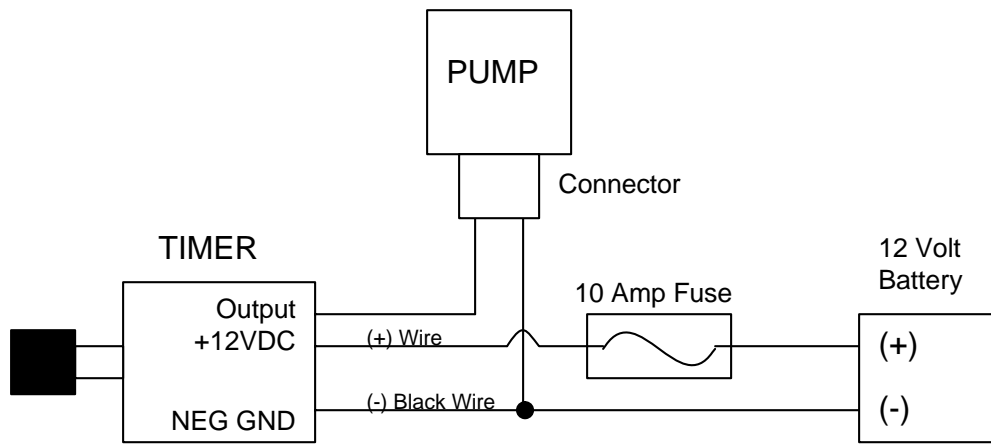
The Adjustable Cycle Timer allows temperature control by turning the pump off between the ON cycles. This is not an adjustable speed control. Turning the knob from MAX toward MIN will increase the delay between the ON cycles of the pump. The delay between ON cycles is up to a maximum of 5 minutes. This reduces the cooling to the suit and extends run time.

#### **Operation**

**OFF:** In this position, the pump will not run and no power is consumed.

**ON, MAX:** This position offers maximum cooling. The pump will run and circulate cool water for 10-12 seconds (ON cycle), turn off and then turn back ON again without delay.

**ON, MIN:** This position offers the least cooling and is the warmest setting. The time the pump is not running is between the ON cycles is approximately 5 minutes when the knob is set in MIN.



**Application Diagram**

#### **Important Information**

This unit has been test run at the factory before shipping. Do not change the wiring on the timer unit. Be sure to connect the wiring correctly or the timer could be damaged. This will void the warranty. The negative or ground wire (-) is Black.

NOTE: This adjustable timer is for use in 12 volt systems only. A connection to 16 volts will damage the timer.

For best performance, fill the cooler with ice and add just enough water to circulate through the shirt, approximately 1 quart. Overall duration of cooling will vary with each application. The hotter the cockpit, the faster the ice will melt. Using the MAX position will also reduce run time.

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