

12 VAC Burner Trouble Shooting w/ Diagnostic Lights

The number one cause of 12 V burner trouble is the battery not being fully charged. It is a common belief that if the motor starts that the battery is good. A battery can start your engine and still not run the burner properly. A weak battery can make your blower fan and fuel pump “slow down” and not run the required 3450 RPM to properly provide enough fuel pressure and air for good combustion. Lower RPM’s will result in a dirty burn with smoke; raw fuel and soot build up in the burner. The remedy then is to remove the coil, clean it, reinsulate and start over. Much cheaper to keep you Battery fully charged. We Recommend:

Model 1510 Battery Minder, 12 Volt 1.5 Amp that will do a number of things.

1. Quadruple your Battery’s Life: This Battery Minder/Maintainer/Charger/Desulfator with full time automatic high frequency pulse desulfator (not high voltage) that can help extend up to 4 times your Deep Cycle Battery’s normal life.
2. Complete with a high-low temperature compensator to insure your Deep Cycle Battery will never be overcharged or undercharged, regardless of the operating temperature. The ambient temperature sensor is installed for a 0 to 130 Degree F operating range.
3. For Dependable Protection and the well-being of your Battery the Model 1500 charger system is equipped with built-in reverse polarity, short circuit protection and over-temperature protection.
4. Simple connect to your battery and plug into an 115VAC Outlet when you washer is not in use.

Battery Condition Indicator (BCI) – A New feature on Largo 12VDC systems is a Battery Condition Indicator. With a push of a button you will know instantly if your battery is fully charged or needs attention. The BCI simply attaches to your Deep Cycle Battery terminals. The BCI only pulls power from battery when you push the button and is not a continuous draw on your battery.

Diagnostic Lights: Theses lights are located on the control panel. When your burner is operating, you will see all three of the LED diagnostic lights illuminated. If one or more light is off, fuel is not being allowed into your burner via the fuel solenoid on the fuel pump.

Green Light Off: Either a fuse is blown or the On/Off Toggle Switch is inoperative.

Amber Light Off: Indicates the Trigger Gun is closed or the Flow Switch is inoperative.

Red Light Off: Indicates the thermostat is off, the unit has reached the set temperature or the thermostat is inoperative.