



## South Wind (Stewart Warner) Troubleshooter: Models 8240 thru 8472 Series

SYMPTOM	POSSIBLE CAUSE	CHECK
Heater fails to operate, neither blower runs	No power  Circuit breakers tripped or defective  Defective ON-OFF switch	Wiring to heater  Allow breakers to cool, and check continuity  Shorted heater components  Continuity across switch terminals
Heater fails to operate, only ventilating air blower runs	Overheat switch tripped  Loose or broken wires  Defective combustion air blower	Overheat condition  Power to combustion air blower  Check motor operation with separate power source
Heater fails to operate, both motors run	Ignition failure (raw fuel at drain or exhaust pipe)         Lack of fuel	Power to ignition unit  Power to airflow switch  Spark at plug  Condition of spark plug electrode  Ignition unit output  Power to fuel solenoid  If no power, check: Thermostat Airflow Switch  If there is power at fuel solenoid, check: Fuel Pump pressure Remote solenoid valve Fuel supply from aircraft fuel system Fuel nozzle and solenoid assembly (remove burner to inspect)
Heater output too low	Defective thermostat operation  Low fuel flow	Thermostat  Fuel pressure  Dirty or defective fuel nozzle and solenoid assembly (remove burner and inspect)



<p>Heater overheats (overheat switch trips and locks out)</p>	<p>Insufficient ventilating air flow</p>   <p>Defective thermostat</p> <p>Defective overheat switch</p>	<p>Restricted ventilating air ducts or air inlet</p> <p>Loose or damaged ventilating air blower output</p> <p>Ventilating air blower output</p> <p>Heater output temperature</p> <p>Loose or broken wires to switch (from terminals 4 and 6)</p> <p>Switch continuity after reset.</p>
<p>Heater exhaust smokes</p>	<p>Insufficient combustion air flow</p>   <p>Excessive fuel flow</p>	<p>Combustion air hose condition</p> <p>Combustion air blower wheel tightness</p> <p>Combustion air blower output</p> <p>Fuel nozzle and solenoid assembly leakage (remove burner to inspect)</p>
<p>Heater pops or bangs</p>	<p>Intermittent spark</p>   <p>Excessive fuel flow</p>	<p>Spark plug condition</p> <p>Ignition cable condition</p> <p>Coil output</p> <p>Ignition unit output</p> <p>Fuel nozzle and solenoid assembly leakage (remove burner to inspect)</p>