



### South Wind/Stewart Warner Troubleshooter: Model 940 series

| SYMPTOM   | POSSIBLE CAUSE   | CHECK  |
|---|--|--|
| Heater will not start; combustion air blower does not run.              | <ol style="list-style-type: none"> <li>1. Defective wiring</li> <li>2. Defective combustion air blower.</li> <li>3. Defective thermal fuse.</li> <li>4. Defective lockout/overheat switch.</li> <li>5. Defective overheat switch.</li> </ol> | <ol style="list-style-type: none"> <li>1. Check wiring connections.</li> <li>2. Replace blower</li> <li>3. Replace fuse</li> <li>4. Replace switch.</li> <li>5. Replace switch.</li> </ol> |
| Blower runs when switch is in HEAT position but heater will not ignite. | <ol style="list-style-type: none"> <li>1. No fuel pressure.</li> <li>2. Defective igniter.</li> <li>3. Defective fuel control valve.</li> <li>4. Defective overheat switch.</li> <li>5. Defective preheat resistor.</li> </ol>               | <ol style="list-style-type: none"> <li>1. Check fuel supply.</li> <li>2. Replace igniter.</li> <li>3. Replace valve.</li> <li>4. Replace switch.</li> <li>5. Replace resistor.</li> </ol>  |
| Heater ignites but ventilating air blower will not start.               | <ol style="list-style-type: none"> <li>1. Defective or improperly adjusted flame detector switch.</li> <li>2. Defective safety valve.</li> </ol>   | <ol style="list-style-type: none"> <li>1. Replace or reset switch.</li> <li>2. Replace valve.</li> </ol>   |
| Heater starts and runs, but goes out later.                             | <ol style="list-style-type: none"> <li>1. Restricted ventilating air flow.</li> <li>2. Defective overheat switch.</li> <li>3. Defective safety valve.</li> </ol>   | <ol style="list-style-type: none"> <li>1. Remove restriction.</li> <li>2. Replace switch.</li> <li>3. Replace valve.</li> </ol>  |
| Heater overheats  | <ol style="list-style-type: none"> <li>1. Defective fuel control valve.</li> <li>2. Restricted ventilating air flow.</li> <li>3. Defective overheat switch.</li> <li>4. Defective cycling switch.</li> </ol>                                 | <ol style="list-style-type: none"> <li>1. Replace valve.</li> <li>2. Remove restriction.</li> <li>3. Replace switch.</li> <li>4. Replace switch.</li> </ol>                                |
| Heat output low   | <ol style="list-style-type: none"> <li>1. Defective fuel control valve.</li> <li>2. HI-LO switch on LO</li> <li>3. Thermostat out of calibration</li> <li>4. Cycling switch out of calibration</li> </ol>                                    | <ol style="list-style-type: none"> <li>1. Replace valve.</li> <li>2. Turn to HI.</li> <li>3. Replace thermostat.</li> <li>4. Replace switch.</li> </ol>                                    |
| Heater smokes excessively   | <ol style="list-style-type: none"> <li>1. Leaking fuel control valve.</li> <li>2. Slow combustion air motor.</li> <li>3. Defective installation.</li> </ol>  | <ol style="list-style-type: none"> <li>1. Replace valve.</li> <li>2. Replace motor.</li> <li>3. Correct combustion air supply.</li> </ol>  |
| Blower will not stop when heater is turned off                          | <ol style="list-style-type: none"> <li>1. Defective flame detector switch.</li> </ol>  | <ol style="list-style-type: none"> <li>1. Replace or reset switch.</li> </ol>  |
| Heater pops or bangs when starting                                      | <ol style="list-style-type: none"> <li>1. Leaking fuel control valve.</li> </ol>   | <ol style="list-style-type: none"> <li>1. Replace valve.</li> </ol>  |