

# SERVICE

## LED CODE      STATUS

**CONTINUOUS OFF** – Check for 115 VAC at L1 and L2, and 24 VAC at SEC-1 and SEC-2.

**CONTINUOUS ON** – Control has 24V power.

**RAPID FLASHING** – Line voltage (115V) polarity reversed, or twinning problem.

**EACH OF THE FOLLOWING STATUS CODES IS A TWO DIGIT NUMBER WITH THE FIRST DIGIT DETERMINED BY THE NUMBER OF SHORT FLASHES AND THE SECOND DIGIT BY THE NUMBER OF LONG FLASHES.**

<b>11</b>	<b>COMPONENT TEST</b> – See below.
<b>12</b>	<b>BLOWER ON AFTER POWER UP (115 VAC or 24 VAC)</b> – Blower runs for 90 seconds if unit is powered up during a call for heat (R-W closed).
<b>13</b>	<b>LIMIT OR FLAME ROLL-OUT SWITCH LOCKOUT</b> – Auto reset after 3 hours. For flame roll-out switch or fuse link (see status code #33 below).
<b>14</b>	<b>IGNITION LOCKOUT</b> – Lockout occurs after 4 tries. Control will auto-reset after 3 hours (see status code #34 below).
<b>21</b>	<b>GAS HEATING LOCKOUT</b> – Control <b>will NOT</b> auto reset. <b>Check for:</b> <b>1)</b> a stuck gas valve relay on control, or <b>2)</b> a miswire to gas valve circuit.
<b>22</b>	<b>ABNORMAL FLAME-PROVING SIGNAL</b> – Flame is present while gas valve is de-energized. Inducer will run until fault is cleared. Check for <b>1)</b> a stuck gas valve or <b>2)</b> a leaky gas valve.
<b>23</b>	<b>PRESSURE SWITCH DID NOT OPEN</b> – Check for <b>1)</b> obstructed pressure tubing or <b>2)</b> a defective pressure switch (stuck in closed position).
<b>31</b>	<b>PRESSURE, DRAFT SAFEGUARD, AUXILIARY-LIMIT (when used), OR BLOCKED VENT SHUTOFF (when used) SWITCH DID NOT CLOSE OR REOPENED</b> – If open longer than 5 minutes, inducer shuts off for 15 minutes before retry. <b>Check for:</b> <ul style="list-style-type: none"> <li>- Proper vent sizing and condensate pitch or sag</li> <li>- Inadequate combustion air supply</li> <li>- Defective inducer motor or start capacitor</li> <li>- Disconnected or obstructed pressure tubing</li> <li>- Vent restriction or high winds</li> <li>- Low inducer voltage</li> <li>- Defective pressure switch or connection. If it opens after trial for ignition period, blower will come on for 90 second recycle delay</li> </ul>
<b>33</b>	<b>LIMIT OR FLAME ROLL-OUT SWITCH IS OPEN</b> – If open longer than 3 minutes, code changes to #13. <b>Check for:</b> <ul style="list-style-type: none"> <li>- Defective blower motor or start capacitor</li> <li>- Dirty filter or restricted duct system</li> <li>- Loose blower wheel</li> <li>- Defective switch or connections</li> <li>- Inadequate combustion air supply</li> <li>- Open Flame Roll-out Switch, or fuse link. Manual reset or replace</li> </ul>
<b>34</b>	<b>IGNITION FAILURE</b> – Control will try three more times before a lockout #14 occurs. If flame signal is lost after trial for ignition period. Blower will come on for 90 second recycle delay. Check for: <ul style="list-style-type: none"> <li>- Oxide buildup on flame sensor (clean with fine sandpaper)</li> <li>- Proper flame sense microamps (.5 microamps D.C. minimum)</li> <li>- GRN/YEL wire <b>MUST</b> be connected to furnace sheet metal</li> <li>- Inadequate flame carryover or rough ignition</li> <li>- Gas valve turned off</li> <li>- Manual shut-off valve</li> <li>- Low inlet gas pressure</li> </ul>

## — — — COMPONENT TEST — — —

To initiate the component test sequence, turn off the room thermostat or disconnect the "R" lead on the thermostat. Briefly short the TEST terminal to the 'COM 24V' terminal. Status LED will flash code and then turn ON the inducer motor. The inducer motor will run for the entire component test. The hot surface ignitor, blower motor-heat speed, and blower motor-cool speed will be turned ON for 10-15 seconds each.