

# — — — SERVICE — — —

## LED CODE    STATUS

**OFF**    No 115 VAC at L1 & L2

**ON**    No faults

**RAPID FLASHING**    115 VAC polarity reversed – Swap 120 Hot & neutral

**EACH OF THE FOLLOWING STATUS CODES IS A TWO DIGIT NUMBER.  
FIRST DIGIT IS A SHORT FLASH      SECOND DIGIT IS A LONG FLASH**

11	<b>BROWNOUT VOLTAGE</b> – Defective 24 VAC transformer
12	<b>BLOWER ON AFTER POWER APPLIED</b> – Unit is powered up with call for Heat
13	<b>LIMIT OR FLAME ROLLOUT LOCKOUT</b> – Unit is auto reset after time delay – To terminate lockout, press the RESET button.
14	<b>IGNITION LOCKOUT</b> – Unit is auto reset after 3 hours
21	<b>GAS FAULT</b> – Mis-wired gas valve
22	<b>FALSE FLAME</b> – Flame is present while gas valve is de-energized
23	<b>LOW PRESSURE SWITCH STUCK CLOSED</b> – Defective Low Pressure switch
24	<b>FUSE BLOWS</b> – Short circuit in 24 VAC (secondary voltage)
31	<b>HIGH PRESSURE SWITCH STUCK OPEN OR CLOSED</b> – Defective High Pressure switch
32	<b>LOW PRESSURE SWITCH STUCK OPEN</b> – Defective Low Pressure switch – Defective Inducer blower      – Disconnected/faulty pressure tubing
33	<b>LIMIT OR FLAME ROLLOUT OPENS</b> – Defective switch      – Restricted vent – Defective blower or run capacitor      – Dirty filter
34	<b>IGNITION PROVING FAILURE</b> – Flame signal lost during blower on time delay – Flame sensor dirty      – Defective Hot surface ignitor      – Gas valve defective
43	<b>LOW PRESSURE SWITCH OPEN WHILE HIGH PRESSURE SWITCH IS CLOSED</b> – Mis-wired pressure switch      – Disconnected/faulty pressure tubing – Defective Low Pressure switch
44	<b>ICM2807 IS NOT COMPATIBLE WITH YOUR FURNACE</b>

## — — COMPONENT SELF TEST — —

Briefly short the TEST/TWIN terminal to the COM 24 VAC while the t-stat is in Off mode.

- The High inducer blower turns on and stays on.
- Hot surface ignitor turns on for 15 seconds and then it turns off.
- Low Heat blower turns on for 15 seconds then it turns off.
- High Heat blower turns on for 15 seconds then it turns off.
- Cool blower turns on for 15 seconds then it turns off.
- The inducer will switch from High speed to Low speed for 10 seconds then it turns off.

## — — SELF-DIAGNOSTIC CODES — —

The **ICM2807** continually monitors the operation of the system. It records the operational history so service technicians can quickly troubleshoot the system. To retrieve up to 5 self diagnostic events, perform the following steps. Press the diagnostic button once. The Status LED blinks the first diagnostic event. Press the diagnostic button twice. The Status LED blinks the second diagnostic event. Repeat this process with up to 5 diagnostic button presses. Hold the diagnostic button in for 2 seconds to return to current status blink code. **Note:** *It also returns to current status blink code after 60 seconds with no button presses.* Hold the diagnostic button in for 10 seconds to delete all status codes and clear the diagnostic history.

### **Blinks    Recommended Action**

- 1    Check gas valve
- 2    Check flame sensor
- 3    Check limit switch
- 4    Check pressure switch
- 5    Check for brownout (24 VAC)

Solid    No more events in memory

## — — LOCKOUT AFTER POWER INTERRUPTION — —

**ICM2807** enforces lockout time even after power interruption. To terminate lockout, press the RESET button.