

It's also important to regularly check vents and registers to make sure that they aren't blocked, vacuum them to clear up any potential debris.

# Carrier Furnace Repair Guide

## What's Wrong With Your Furnace?

Remember to always turn your furnace completely off before opening it up to look around or attempt any fix.

| Is your furnace...                        | The problem might be your... | What's wrong?  | How you can fix it:   |
|---|------------------------------|--|---|
| Not heating?                              | Circuit Breaker/Fuse         | Most likely, either the electrical system providing your furnace's power has shorted or the power switch has blown.  | Try resetting your furnace's circuit breaker. If it has blown, you will need to replace it.   |
|   | Igniter                      | The furnace's igniter might either be cracked or faulty.   | Check the part for cracks, if it is then replace the igniter. If it isn't cracked, use a multimeter to test for continuity.   |
| Cycling irregularly?                      | Thermostat                   | Your thermostat might be adjusting incorrectly, causing the furnace to cycle on and off too often.   | If your thermostat has an adjustable calibration scale, adjust the heat anticipator. If this does not stabilize the unit, you may have to replace the thermostat.   |
| Not blowing hot air?                      | Blower Motor                 | Your blower motor may have completely burnt out. If this doesn't seem to be the case, then the connecting belt may have simply broken.   | Test to see if power is reaching the motor. If it does, but isn't running, the motor has likely failed. If the motor runs but air doesn't move, the connecting belt has probably broken. You'll have to replace the belt. |
|   | Control Board                | The control board regulates the amount of voltage that reaches each functioning part. If the relay that controls the blower motor has failed, it will continually send voltage to the motor. | Replace the control board.  |
| Blowing too much air?                     | Thermostat                   | The contact that controls the blower motor on your thermostat may be stuck closed, causing the blower motor to run continuously.   | Use a multimeter to check for continuity. If it appears the thermostat is the issue, replace it.  |
|   | Drain Pipe                   |  |   |
| Leaking water?                            |                              |  |   |
| Starting and then stopping shortly after? | Flame Sensor                 | Your furnace's flame sensor monitors the burner, detecting whether a flame is present. If it is either defective or dirty, it will not be able to detect a flame.                            | If dirty, clean the sensor using a fine abrasive pad. If faulty, replace the flame sensor.  |

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## Carrier Furnace Error Codes

Each status code is a two-digit number. The first number is determined by the number of short flashes and the second digit by the number of long flashes.

| <input type="text" value="Search"/> <input type="button" value="Q"/> <input type="button" value="v"/> |   |   |
|---|---|---|
| <b>Carrier Error Code</b>   | <b>What this means</b>  | <b>Action required</b>  |
| Error Code 1-2  | The blower is on after power up   | Blower runs for 90 seconds if the unit is powered up during a call for heat.  |
| Error Code 2-4  | Secondary voltage fuse is open  | Check for a short circuit in the secondary voltage wiring.  |
| Error Code 3-1  | Pressure, draft safeguard, aux-limit switch, or blocked vent switch didn't close (or reopened, downflow only) | If open for longer than 5 minutes, the inducer will shut off for 15 minutes before retry. Check for: low inducer voltage; proper vent sizing; defective inducer motor; defective blower motor or capacitor; defective pressure switch; restricted vent; excessive wind, inadequate combustion air supply; or obstructed pressure tubing.  |
| Error Code 2-3  | Pressure switch didn't open   | Check for an obstruction in the pressure tubing or a pressure switch that is stuck closed.  |
| Error Code 1-1  | No previous code  | Stored status codes are erased when power to control is interrupted.  |
| Rapid LED flashing  | Line voltage polarity is reversed.  | If twinned, refer to twinning kit instructions.   |
| Error Code 1-3  | Limit or flame roll-out switch lockout  | Control will auto-reset after 3 hours. Reset the switch or replace fuse link.   |
| Error Code 3-3  | Limit or flame roll-out switch is open  | If the switch is open for longer than 3 minutes, the code will change to #1-3. Flame roll-out switch requires manual reset. Check for: defective blower motor or capacitor; dirty filter or restricted duct system; loose blower wheel; faulty switch or connections; or inadequate combustion air supply.  |
| Error Code 3-4  | Ignition proving failure  | Control will try three more times before lockout #1-4 will occur. If the flame signal is lost after the trial for ignition period, the blower will come on for a 90 second recycle delay. Check for: build-up on the flame sensor; proper microamp distribution to the flame sensor; defective gas valve or turned off gas valve; faulty hot surface ignitor; low inlet gas pressure; the manual valve is shut-off; continuity of control ground; low flame carryover or rough ignition; ungrounded flame sensor. |
| Error Code 1-4  | Ignition lockout  | Control will auto-reset after 3 hours.  |
| Error Code 2-1  | Gas heating lockout   | Control won't auto-reset. Check for either a badly-wired gas valve or a defective control.  |
| Error Code 2-2  | Abnormal flame-proving signal   | Flame is proved while the gas valve is de-energized. Check for either a leaky or stuck-open gas valve.  |

## When to call a professional to repair your Carrier furnace