

# Sequence of Operation on a Gas Furnace

If you're having issues with your gas furnace and can't figure out why it won't switch on, it helps to learn how it works. Knowing the sequence of operation of a gas furnace will save time and money on gas furnace troubleshooting calls. You'll be able to diagnose the problem and get the gas furnace repair you actually need.

## Types of Gas Furnace Systems



**80%**  
efficient furnace systems have a metal flue and before the 2010s, usually have a PSC blower motor

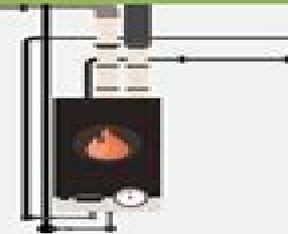


**90%+**  
high-efficiency furnace systems have PVC intake & exhaust vents and primary & secondary heat exchangers



**97%+**  
high-efficiency furnace systems are similar to other high-efficiency systems but can fully modulate gas flow

## Common Gas Furnace Problems



- Thermostat malfunction
- Dirty or clogged filters
- Flickering or odd-colored pilot light
- Cracked heat exchanger
- Frequent and over-cycling
- Limit switch\*, flame sensor, or igniter malfunction
- The furnace isn't blowing air or it blows cold air
- Worn motor bearings
- Battling or popping noises
- \*It's important to check the root cause of a safety device tripping first before assuming it's faulty!

## Sequence of Operation

Here are 10 steps of how a standard furnace system operates:

1



### Call for Heat

The thermostat reaches a set temperature, or is turned up by the homeowner and sends a signal for the furnace to turn on. While your furnace is waiting for a call for heat it is in standby mode.

2



### Control Board Safety Check

The thermostat provides 24 volts to the W terminal on the control board. When you check with a voltmeter you should have 24 volts AC (alternating current) between W and C (com) on the control board.

3



### Inducer Motor Starts

The control board sends 110-125 volts AC to the draft inducer to start it. The inducer motor/venter motor begins to spin and creates a vacuum to ensure the leftover gasses go out the exhaust pipe.

4



### Pressure Switch Closes

If the inducer comes up to speed and the flue is unblocked then the pressure switch closes the connection between the two wires that go into the pressure switch.

5



### Furnace Igniter

The control board sends power to the furnace igniter which should glow bright orange for a set number of seconds.

6



### Gas Valve Opens

The gas valve will open allowing gas to flow through the venturi tube where it is combined with air to ensure proper combustion (as long as the self-safety test was okay).

7



### Flame Sensor Senses Ignition

The flame sensor will sense ignition and turn the ignition source off. If the gas burners do not ignite in 5 to 8 seconds the flame sensor does not sense the flame and the control board turns the gas valve off.

8



### Blower Motor Starts

After a pre-determined amount of time, the blower motor will start, passing air over the system's heat exchangers to provide heated air for your home.

9



### Satisfied Thermostat

The furnace blower motor and gas continue to burn until the thermostat on your wall satisfies the need for heat (reaches the set temperature) then the thermostat breaks the voltage in the W (white) wire and cuts the gas burners off.

10



### Blower Motor Shut Down

The furnace blower motor continues to run for a set amount of time that is determined by the furnace's control board until the heat is removed from the furnace's heat exchanger.

## Get The Repair Parts You Need

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# Gas Furnace Sequence Of Operation Ricksdiy Com

**Robert D. Reed**



## **Gas Furnace Sequence Of Operation Ricksdiy Com:**

High-efficiency Gas Furnace Troubleshooting Handbook Billy C. Langley, 1991      Progressive Furnace Heating Alfred Grant King, 1914      **High Efficiency Gas Furnace Fixes** Robert Enochs, 2024-03-01 Fix Your Furnace Without Having to Hire a Professional This easy to read and follow comprehensive HVAC repair manual is your ultimate guide to troubleshooting and fixing common issues with your furnace without needing a costly service technician This furnace troubleshooting book does not read like a typical HVAC for beginners or HVAC for Dummies repair book no this is more like a storybook that takes you on a fascinating journey of learning everything there is to know about your furnace Because after all you need to know how it works before you can fix it This book is designed specifically for homeowners and brand new service technicians to empower anyone to take control of their heating system and confidently tackle repairs Inside you ll find practical step by step instructions and expert tips to help you navigate through any condensing gas furnace problem You ll learn to tackle each task carefully understanding the importance of safety procedures You ll also get a history lesson to better understand how heat exchangers and many other internal components work and why they do what they do Because after all you can t fix something if you don t know what it s supposed to do in the first place This HVAC book offers a clear rundown of the essential equipment including specialized diagnostic tools that make you feel like a furnace pro Delve deep into what makes your furnace tick as you familiarize yourself with its key components each explained with clarity and practical detail With each page you ll gain proficiency in addressing common issues from burners that won t light up to clogged condensate drains Learn the ins and outs of thermostat tweaks why a filter replacement is critical and what to do when a hot surface ignitor or flame sensor throws a tantrum After mastering these topics you won t just learn how to fit it you ll learn maintenance tips to prevent future problems Key Features Easy to follow troubleshooting guides for common furnace problems Detailed explanations of high efficiency condensing gas furnace components and operation Insider tips and tricks to save time and money on repairs Safety precautions and best practices for DIY furnace maintenance Bonus chapter on preventive maintenance to keep your furnace running efficiently year round Whether you re a homeowner looking to repair the furnace in the middle of the night by yourself or save on repair costs this book will teach you everything you need to know and things you previously had no idea about High Efficiency Gas Furnace Fixes is your HVAC repair book and this is not HVAC repair for dummies this easy to read book will explain everything you need to know about your condensing gas furnace Embrace the power and satisfaction of being able to fix the furnace yourself with open arms and enjoy the mental ease that comes with invaluable know how      **Building A Gas Fired Crucible Furnace** David J. Gingery, 2015-05-19 Now that you have established your metalworking shop and progressed in the various skills of the crafts you may want to expand your metal casting operation Build this gas fired crucible furnace so that you can turn out castings for your projects faster and easier Designed especially for the home shop foundry Very quiet in operation Easy to light and simple to operate The

body and lid raise for safer crucible handling Operates on natural or bottled gas Costs only a fraction of the price of a commercially built unit and it will melt aluminum brass and even gray iron This unit will really upgrade your shop and you will enjoy the convenience of gas fired melting

**Furnace Operations** Robert De Hart Reed,1981 *Furnace Operations* Robert D. Reed,1981

**Industrial and Process Furnaces: Principles, Design and Operation** Barrie Jenkins,Peter Mullinger,2017-11-13

Furnaces sit at the core of all branches of manufacture and industry so it is vital that these are designed and operated safely and efficiently This reference provides all of the furnace theory needed to ensure that this can be executed successfully on an industrial scale

**Industrial and Process Furnaces Principles 2nd Edition** provides comprehensive coverage of all aspects of furnace operation and design including topics essential for process engineers and operators to better understand furnaces This includes the combustion process and its control furnace fuels efficiency burner design and selection aerodynamics heat release profiles furnace atmosphere safety and emissions These elements and more are brought together to illustrate how to achieve optimum design and operation with real world case studies to showcase their application Up to date and comprehensive reference encompassing not only best practice of operation but the essential elements of furnace theory and design essential to anyone working with furnaces ovens and combustion based systems More case studies more worked examples New material in this second edition includes further application of Computational Fluid Dynamics CFD with additional content on flames and burners costs efficiencies and future trends

## Unveiling the Magic of Words: A Overview of "**Gas Furnace Sequence Of Operation Ricksdiy Com**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Gas Furnace Sequence Of Operation Ricksdiy Com**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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