

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



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

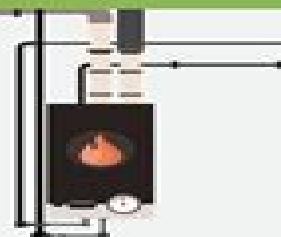


high-efficiency furnace systems have PVC intake & exhaust vents and primary & secondary heat exchangers



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 ignitor malfunction
The furnace isn't blowing air or it blows cold air
Worn motor bearings
Rattling 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 ignitor 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.

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Robert Enochs



Gas Furnace Sequence Of Operation Rick'sdiy Com:

High-efficiency Gas Furnace Troubleshooting Handbook Billy C. Langley, 1991 *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 fix 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

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