

FireGlitter Vented Burner

General Assembly, Installation, and Operation Instructions.
Register Your Purchase at www.rasmussen.biz.



Report #10-38

Mass Approval Code:
G1-0416-463



12028 E. PHILADELPHIA ST.
WHITTIER, CA 90601 U.S.A.
www.rasmussen.biz

ATTENTION! READ INSTRUCTIONS CAREFULLY BEFORE ASSEMBLY OR USE

Models: FGV (FireGlitter) / FDV (FireDrops) / FBL (FireLine) 18/24/30/ 36- N-B/SS

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS**
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

INSTALLER: Leave this manual with the appliance.
CONSUMER: Retain this manual for future reference.

Improper installation, alteration, service or maintenance can cause property damage, personal injury or loss of life. Read these instructions thoroughly before installation. For assistance or additional information, consult your gas log dealer, qualified installer, service agency or gas supplier.

This appliance may be installed in an aftermarket, permanently located, manufactured (mobile) home, where not prohibited by local codes.

This appliance is only for use with type of gas indicated on the rating plate.

Installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54.

In the Commonwealth of Massachusetts:

- Installation must be performed by a licensed plumber or gas fitter.
- The chimney flue damper, when used with gas logs, will be welded open or completely removed.
- A CO detector shall be installed in the room where the appliance is installed.

IMPORTANT INFORMATION

This burner and gas log set are for use in a fully functioning wood burning fireplace with the **DAMPER WIDE OPEN**, it must be installed in a **FULLY VENTED** solid-fuel burning fireplace with a working flue constructed of non combustible material. The **FLUE MUST VENT ALL PRODUCTS OF COMBUSTION**.

CARBON MONOXIDE POISONING MAY LEAD TO DEATH

When used without fresh air, decorative gas appliances may give off carbon monoxide, an odorless, colorless, poisonous gas. Some people, pregnant women, persons with heart or lung disease, anemia, persons under the influence of alcohol and persons who live at high altitudes are more affected by carbon monoxide than others.

Early signs of carbon monoxide poisoning resemble the flu and include; headache, dizziness and/or nausea. If you have these symptoms, the burner or the appliance may not be installed or working properly, or the flue may be blocked. **GET FRESH AIR AT ONCE!** Verify that the gas log set is properly arranged and have the heater and chimney flue serviced before using again.

WARNING:

A SAFETY PILOT MUST BE INSTALLED ON ALL UNITS DESIGNED OR CONVERTED TO BURN PROPANE GAS

The installation and the provisions for combustion and ventilation air must conform with *The National Fuel Gas Code ANSI Z223.1 / NFPA54*, or *The CSA B149.1, Natural Gas and Propane Installation Code*, latest edition.

Compliant with The Department of Building and Safety, Rule of General Application No. RGA2-72 AND ANSI Z21.84, "Standard for decorative Log Sets for Installation in Wood Burning Fireplaces" Decorative Gas Appliances for Installation in Solid-Fuel Burning fireplaces.

IMPORTANT INFORMATION

- **Due to high temperatures**, the appliance should be located out of traffic and away from furniture and draperies.
- **Children and adults** should be alerted to the hazard of high surface temperatures and should stay away to avoid burns or clothing ignition.
- **Young children** should be carefully supervised when they are in the same room with the appliance.
- **Do not place** clothing or other flammable material on or near the appliance.
- **Any safety screen** or guard removed for servicing an appliance must be replaced prior to operating the appliance.
- **Installation and repair** should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.
- **WARNING:** Any change to this appliance or its controls can be dangerous.
- **WARNING:** Failure to keep the primary air opening(s) of the burner clean may result in sooting and property damage.
- **Keep appliance area** clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- **DO NOT** use this room appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been under water.
- **WARNING:** Before installing in a solid-fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner.
- **WARNING:** Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns.
- **WARNING:** Do not use a blower insert, heat exchanger insert or any other accessory not approved for use with this heater.
- **A fireplace screen** must be in place when the appliance is operating and, unless other provisions for combustion air are provided, the screen shall have an opening(s) for introduction of combustion air.
- **Solid fuels** shall not be burned in a fireplace where this appliance is installed.
- **WARNING:** Glass doors must be fully opened when appliance is in operation to allow for safe combustion, cooling of components and venting.
- **Any outside air ducts** and/or ash dumps in the fireplace shall be permanently closed at the time of appliance installation.
- This appliance may be used in bedrooms and bathrooms if used in a vented application, subject to local codes.
- **Avoid contact** with the objects, chassis or another part which may be hot during operation.

This product is designed to be an ATTENDED appliance. Do not leave this unit burning while unattended or while anyone is sleeping. Young children MUST be supervised when in the same room with the appliance and are NOT to operate this unit.

WARNING! CHECK FOR PROPER VENTING

A properly sized, unobstructed chimney will normally vent all products of combustion. Any odor or smoke detected inside the room is an indication that the flue is not functioning properly.

SHUT OFF THE BURNER IMMEDIATELY! THE CAUSE OF THE VENTING PROBLEM MUST BE DISCOVERED AND CORRECTED BEFORE CONTINUED USE OF THE GAS LOG SET.

Continued use with improper venting may cause damage to your fireplace, room furnishings and could cause serious illness.
IF IMPROPER VENTING IS SUSPECTED, IMMEDIATELY HAVE BURNER AND CHIMNEY FLUE SERVICED. ALSO, VERIFY THAT LOG SET IS INSTALLED PER THESE INSTRUCTIONS.

MINIMUM AND MAXIMUM INLET GAS SUPPLY PRESSURES

The minimum inlet gas supply pressure shall be 6 inches of water column on Natural Gas and 11 inches of water column on Propane. The maximum inlet gas supply pressure shall be 7 inches of water column on Natural Gas and 14 inches of water column on Propane. The appliance and its main gas valve must be disconnected from the gas supply piping system during pressure testing of that system at test pressures in excess of 1/2 psi (3.5 kPa). The appliance must be isolated from the gas piping system by closing its equipment shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).

WARNING—Proposition 65 Statement

If not installed, operated and maintained in accordance with these instructions, this product could expose you to substances in fuel or from fuel combustion which are known to the State of California to cause cancer, birth defects or other reproductive harm.

PARTS LIST

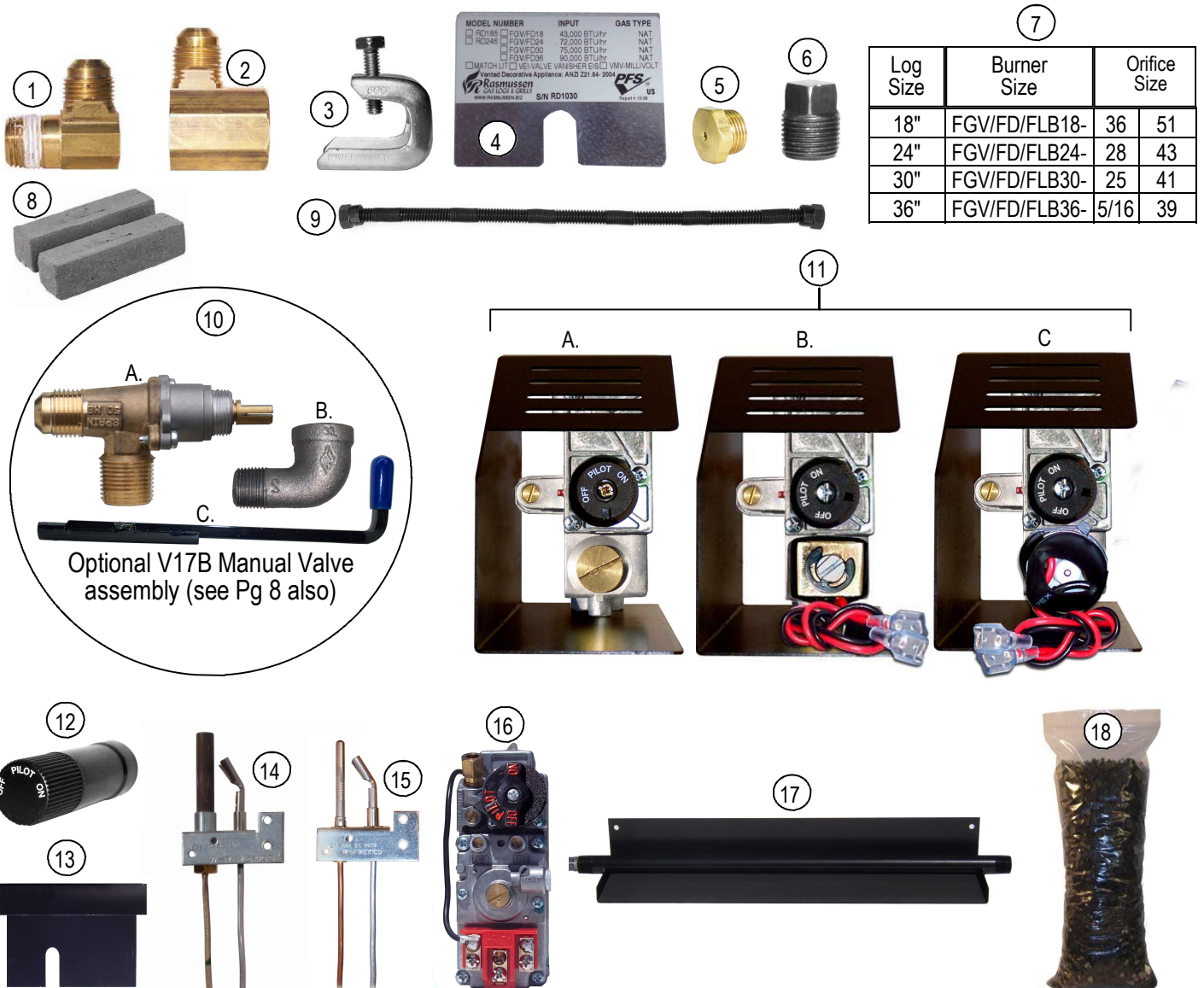
All RD Flaming Ember Burners will include the parts listed below except where otherwise noted. The quantity and/or size of parts and supplies shown will vary with each style burner and control.

REQUIRED TOOLS AND MATERIALS

Adjustable Wrench, Pipe Wrench and Pipe Sealing compound (required if fittings not already pre-wrapped with Teflon thread tape). Consult individually supplied instructions for assembly and/or parts not listed below.

- Orifice Holder (Internally Tapped 3/8" x 3/8" Flared MIP Fitting) (A2T)
- 3/8" x 1/2" FIP Flared Brass Fitting (A1)
- Damper Clamp (DC1)
- Rating/I.D. Plate
- Orifice Spud (01-XX)
- Burner Plug
- orif
- Log Lifters (LL) 2(18"), 3(24"), 4(30") and 5(36")
- Flex Connector (SSCB-14)
- Optional: V17B Manual Valve Kit; A) 3/8" MIP x 3/8" MIP Valve (V17) B) 3/8" x 3/8" Street Elbow C) 9" long Key (K5)
- Optional - SPK3E, -RPK3E and -RMC1E models come pre-assembled with "Easy" Safety Control. The "Easy" Safety Control is required for Propane sets and may be purchased separately as an upgrade kit.
- Valve Knob Extender for Manual "EASY" Safety Valve (STV-10)
- Heat Shield (HYFZ)
- Pilot thermogenerator for Models "S/MMV" (JPG9- N/P)
- Pilot thermopile for Models
- Millivolt valve for Models: "S/MMV" (V11Z-NG/P)
- Burner Pan
- Bag of FireGlass or FireDrops (GLX-?? OR FDX-?? Pan Medium included: 15lbs.(18"),25lbs.(24"),35lbs.(30") &45lbs(36")

Note: All Propane Burners require an "EASY" Safety Pilot Kit, shown below (#11). Optional for Natural Gas. SPK3E (Manual EASY Control), RPK3E (Remote Ready "EASY" Control), RMC1E (Variable Flame Height "EASY" Control) and Millivolt Systems "S/MMV. Also, Available for Natural gas Burners per your request.



GENERAL INSTALLATION INSTRUCTIONS

WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

MINIMUM FIREPLACE REQUIREMENTS

The Minimum permanent chimney or damper opening is the minimum permanent free opening required by Standards or Codes to ensure safe operation of the appliance and must be at least 39 square inches for 18"-20" models, 51 square inches on 24" models and 64" on 30" models based on a minimum chimney height of 10 feet. It is **NOT** the minimum operating damper position.

Log Set Size	Opening Height	Firebox Depth	Front Firebox Width	Rear Firebox Width	Chimney Diameter	Min. Permanent Chimney Opening	Btu/Hour	Max. Input
							Natural Gas	Propane
18"	16"	13"	18" to 24"	18"	7"	39 Sq. in.	43,000	27,000
24"	16"	13"	24" to 30"	24"	8"	51 Sq. in.	72,000	37,000
30"	16"	13"	30" to 36"	30"	8"	51 Sq. in.	75,000	50,000
36"	16"	13"	45" to 54"	36"	9"	64 Sq. in.	90,000	83,000

STEP ONE PREPARATION:

1. Verify that the Valve Assembly is correctly matched to the log set, burner, and gas supply.
2. Turn off **Fireplace Gas Supply** (Figure 1A).
3. Thoroughly clean fireplace floor of any ashes and have a qualified chimney cleaner insure that the chimney flue and firebox are free of soot, creosote, and loose paint.
4. Attach **Damper Clamp** (Figure 2A) over edge of fireplace **Damper Blade** (Figure 2B) to prevent damper from closing accidentally. If unable to attach damper clamp, drill a hole (or holes) in the damper or remove it completely.

FIGURE 1

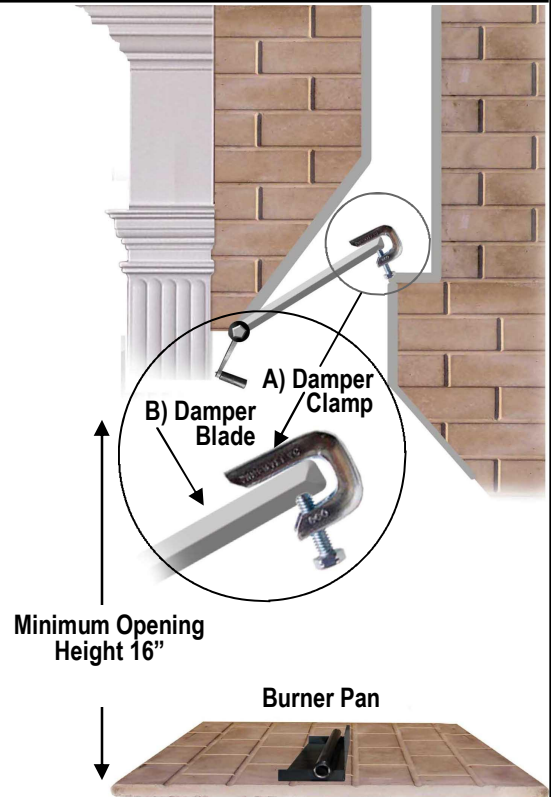
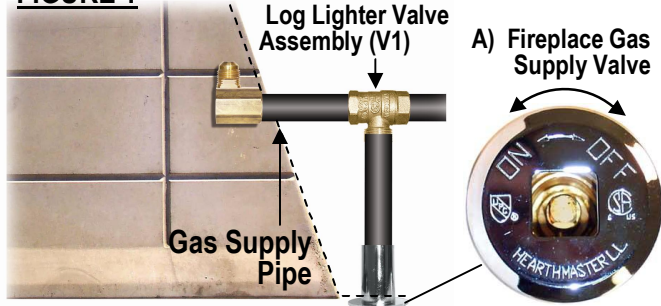


FIGURE 2

IMPORTANT GUIDELINES

- The chimney damper must be wide open and fixed in a manner to maintain a permanent free opening at all times as outlined above.
- The area of the flue must be not less than 1/10 the area of the fireplace opening.
- This gas log set must be installed in fully **VENTED** metal or masonry fireplace with a working flue that is safe for burning a wood fire.
- The flue must be free of any obstructions and must exhaust all products of combustion.
- At least 12" of noncombustible or heat resistant material is required above the fireplace. A fireplace hood will be required to act as a heat deflector in protecting combustible fireplace surrounds (facing and/or mantel) if certain minimum clearances cannot be met.
- Be certain that combustible flooring material (i.e. carpet, tile etc.) is not too close to this gas appliance. If this appliance is at floor level or less than 6" above the floor, there must be at least 12" of noncombustible material between the base of the fireplace and any combustible flooring.
- Input ratings shown in BTU per hour are for elevations up to 2,000 ft. For elevations above 2,000 ft. refer to the National Fuel Gas Code, or visit www.nfpa.org.
- The Gas appliance and it's main gas valve must be disconnected from the gas supply piping system during any pressure testing of that system as required by NFPA 54.

STEP TWO: POSITIONING BURNER PAN AND GRATE

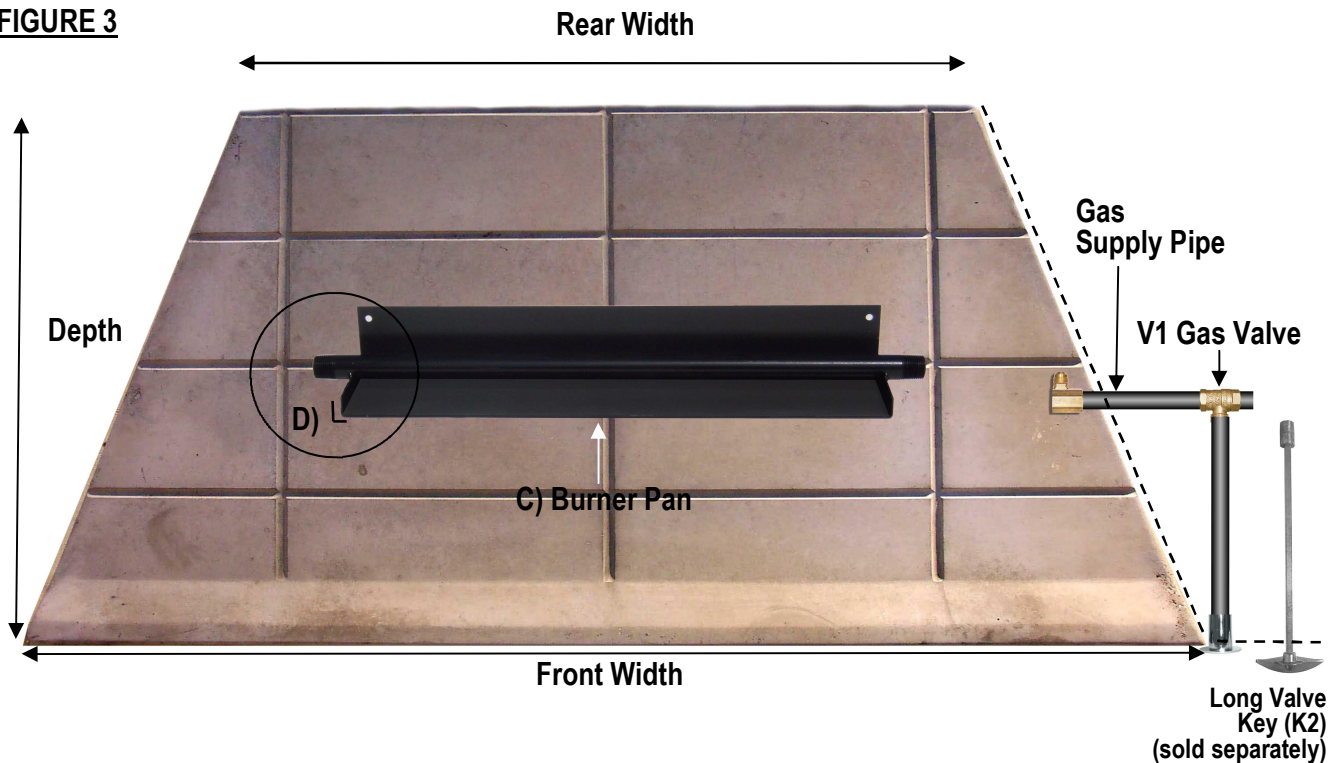
WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this heater may result in property damage or personal injury.

1. Place Burner Pan

(Figure 2 and 3C) Mark positions of Grate and Burner Pan on fireplace floor with pencil then remove from the firebox (Figure 3D).

CENTER PAN DON'T REMOVE

FIGURE 3



NOTE: If fittings do not come pre-wrapped with Teflon tape, pipe compound **MUST** be applied to all pipe threads to prevent gas leaks. **DO NOT** use Teflon tape or pipe compound on *any* flared fitting threads.

LEAK TEST PROCEDURES

WARNING: DO NOT use an open flame to test leaks!

Create a mixture of equal parts soap and water. Apply to all the joints of the pipe fittings from the gas supply to the burner. Turn on the gas supply valve for no longer than 3-5 seconds. If bubbles appear in the soap solution applied to the joints, there is a leak. Turn off the gas supply valve and tighten those fittings. Repeat the procedure until bubbles no longer appear. Remember to test all joints.

WARNING! CHECK FOR PROPER VENTING

A properly sized, unobstructed chimney will normally vent all products of combustion. Any odor or smoke detected inside the room is an indication that the flue is not functioning properly.

SHUT OFF THE BURNER IMMEDIATELY! THE CAUSE OF THE VENTING PROBLEM MUST BE DISCOVERED AND CORRECTED BEFORE CONTINUED USE OF THE GAS LOG SET.

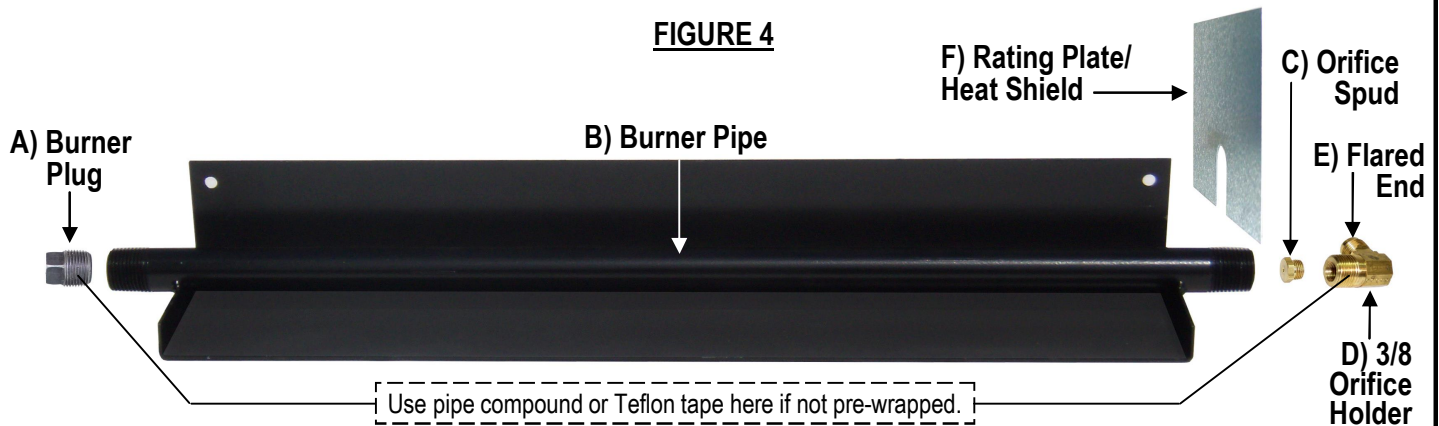
Continued use with improper venting may cause damage to your fireplace, room furnishings and could cause serious illness. **IF IMPROPER VENTING IS SUSPECTED, IMMEDIATELY HAVE BURNER AND CHIMNEY FLUE SERVICED. ALSO, VERIFY THAT LOG SET IS INSTALLED PER THESE INSTRUCTIONS.**

STANDARD MATCH LIGHTED (NATURAL GAS MODELS ONLY)

STEP THREE: BURNER PAN ASSEMBLY

NOTE: If fittings do not come pre-wrapped with Teflon tape, pipe compound **MUST** be applied to all pipe threads (except in #3 of Step 3) to prevent gas leaks. **DO NOT** use Teflon tape or pipe compound on *any* flared fitting threads.

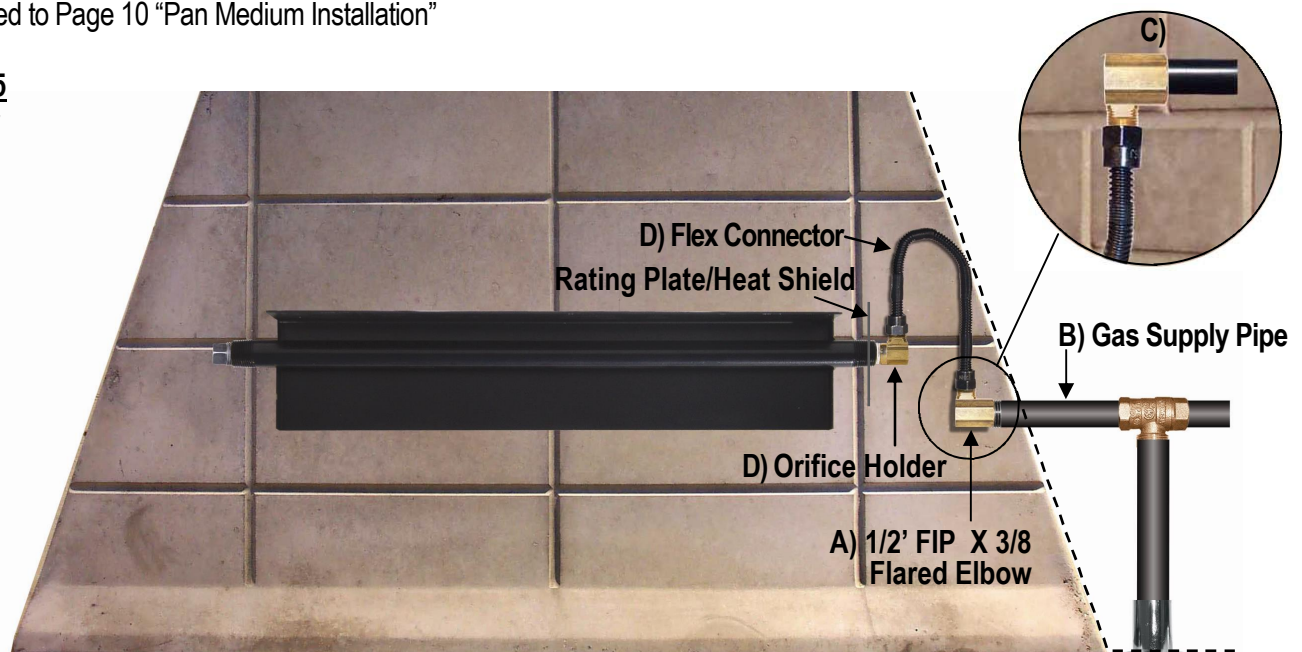
1. Thread **Burner Plug** (Figure 4A.) into the **Burner Pipe** (Figure 4B) at opposite end of gas supply and wrench tighten.
2. Thread **Orifice Spud** (Figure 4C) into **3/8" Orifice Holder** (Figure 4D) (Do not use pipe compound or Teflon tape here)
NOTE: The Orifice Spud is a gas consumption limiter. Higher flames (and greater gas consumption) may result if orifice spud is not installed.
3. Thread Orifice Holder into Burner Pipe and wrench tighten with the flared end facing rear wall of firebox (Figure 4E).
4. Insert **Rating Plate/Heat Shield** (Figure 4F) onto the threads of and the Burner Pipe with labels facing away from the burner.



STEP FOUR: GAS SUPPLY CONNECTION (NOTE: ENSURE THAT GAS SUPPLY TO FIREPLACE IS OFF)

1. Thread the **1/2" FIP x 3/8" Flared Elbow** (Figure 5A) onto the **Gas Supply Pipe** (Figure 5B) and wrench tighten. If space between Gas Supply Pipe and Firebox floor allows, the flared end of the 1/2" FIP x 3/8" Elbow should face down (Figure 5C).
2. With Burner Pan inside firebox at previously marked position thread one end of the **Flex Connector** (Figure 5D) to the **1/2" FIP x 3/8" Flared Elbow** and wrench tighten. Do not use pipe compound or tape on *any* flared threads.
3. Carefully bend the **Flex Connector** into position, connect to the **Orifice holder** and wrench tighten. If Flex Connector is bent into too small of a radius it may kink or break causing air flow noise and/or gas leaks.
4. Proceed to Page 10 "Pan Medium Installation"

FIGURE 5
Top View



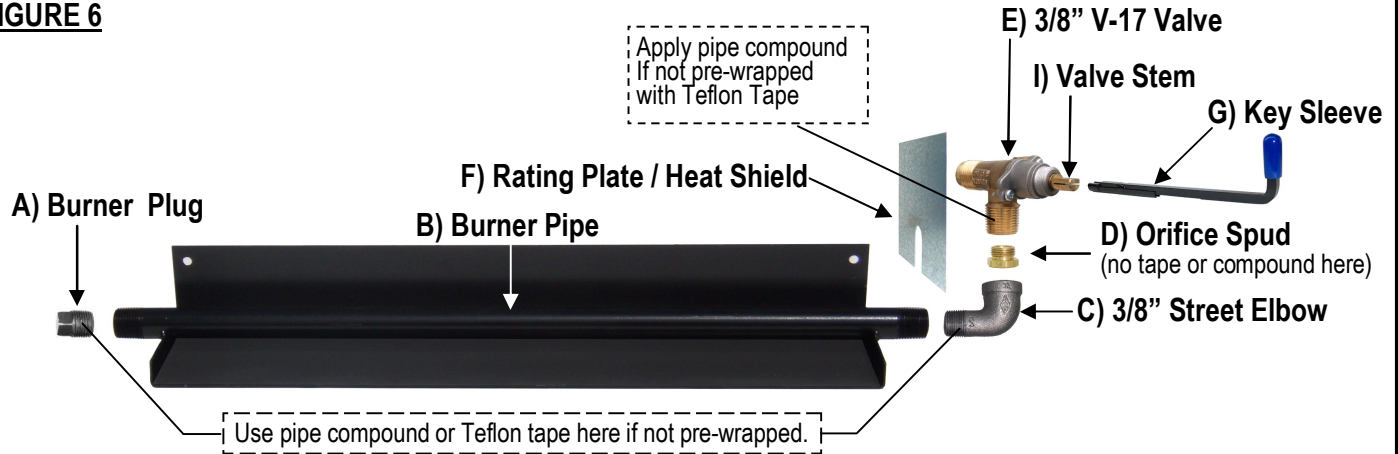
OPTIONAL ACCESSORY MATCH LIGHTED WITH MANUAL "V-17" VALVE (NATURAL GAS MODELS ONLY)

STEP THREE: BURNER PAN ASSEMBLY

NOTE: If fittings do not come pre-wrapped with Teflon threaded tape, pipe compound **MUST** be applied to all pipe threads (except in #3 of Step 3) to prevent gas leaks. **DO NOT** use Teflon tape or pipe compound on *any* flared fitting threads.

1. Thread **Burner Plug** (Figure 6A.) into the **Burner Pipe** at opposite end of gas supply (Figure 6B) and wrench tighten. (If not already installed at Factory)
2. Thread **3/8" Street Elbow** (Figure 6C) into Burner Pipe and wrench tighten into position shown.
3. Thread **Orifice Spud** (Figure 6D) (*Without* using pipe compound or Teflon tape) into **3/8" V-17 Valve** (Figure 6E), then thread Valve into 3/8" Elbow and wrench tighten into position shown.
4. Insert **Rating Plate/Heat Shield** (Figure 6F) between the burner pipe and the 3/8" Street Elbow.
5. Insert **Key Sleeve** (Figure 6G) over **V-17 Valve Stem** (6I)

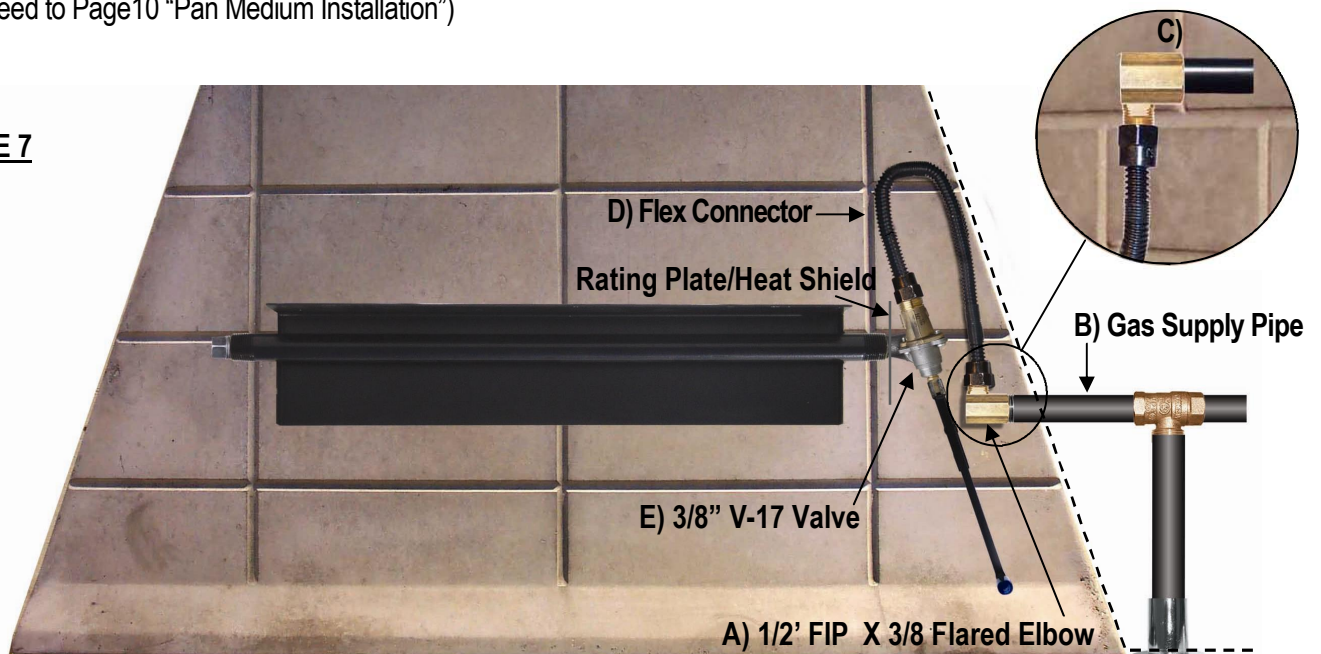
FIGURE 6



STEP FOUR: GAS SUPPLY CONNECTION (ENSURE THAT GAS SUPPLY TO FIREPLACE IS OFF)

1. Thread **1/2" FIP x 3/8" Flared Elbow** (Figure 7A) onto the **Gas Supply Pipe** (Figure 7B) and wrench tighten. If space between Gas Supply Pipe and Firebox floor allows, the flared end of the 1/2" FIP x 3/8" Elbow should face down. (Figure 7C)
2. With Burner Pan inside firebox at previously marked position thread one end of the **Flex Connector** (Figure 7D) to the **1/2" FIP x 3/8" Flared Elbow** and wrench tighten. Do not use pipe compound or tape on *any* flared threads.
3. Attach the other end of the **Flex connector** to the tapered end of the V17 valve (Figure 7D). Remember, if Flex Connector is bent into too small of a radius it may kink or break causing air flow noise and/or gas leaks.
4. Proceed to Page10 "Pan Medium Installation")

FIGURE 7



PAN MEDIUM

STEP 5

Place log lifters behind burner pan (Figure 8A) and completely cover **Burner Pipe and Log Lifters** with FireGlass (Figure 8B) starting from Log Lifters at the rear of Burner Pan and moving toward leading edge (Figure 8C).

Use entire contents of bag provided, allowing medium to spill over leading edge of burner pan and Valve Vanisher (Figure 8D and 9A).

FIGURE 8

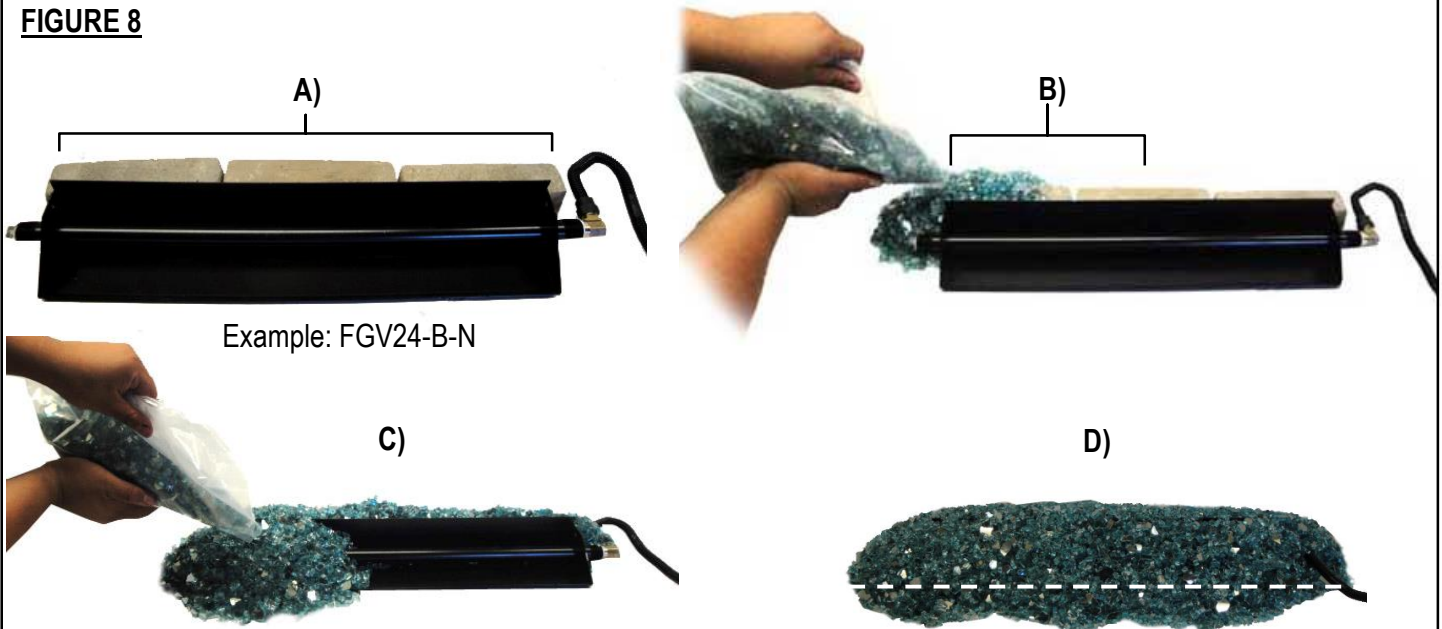
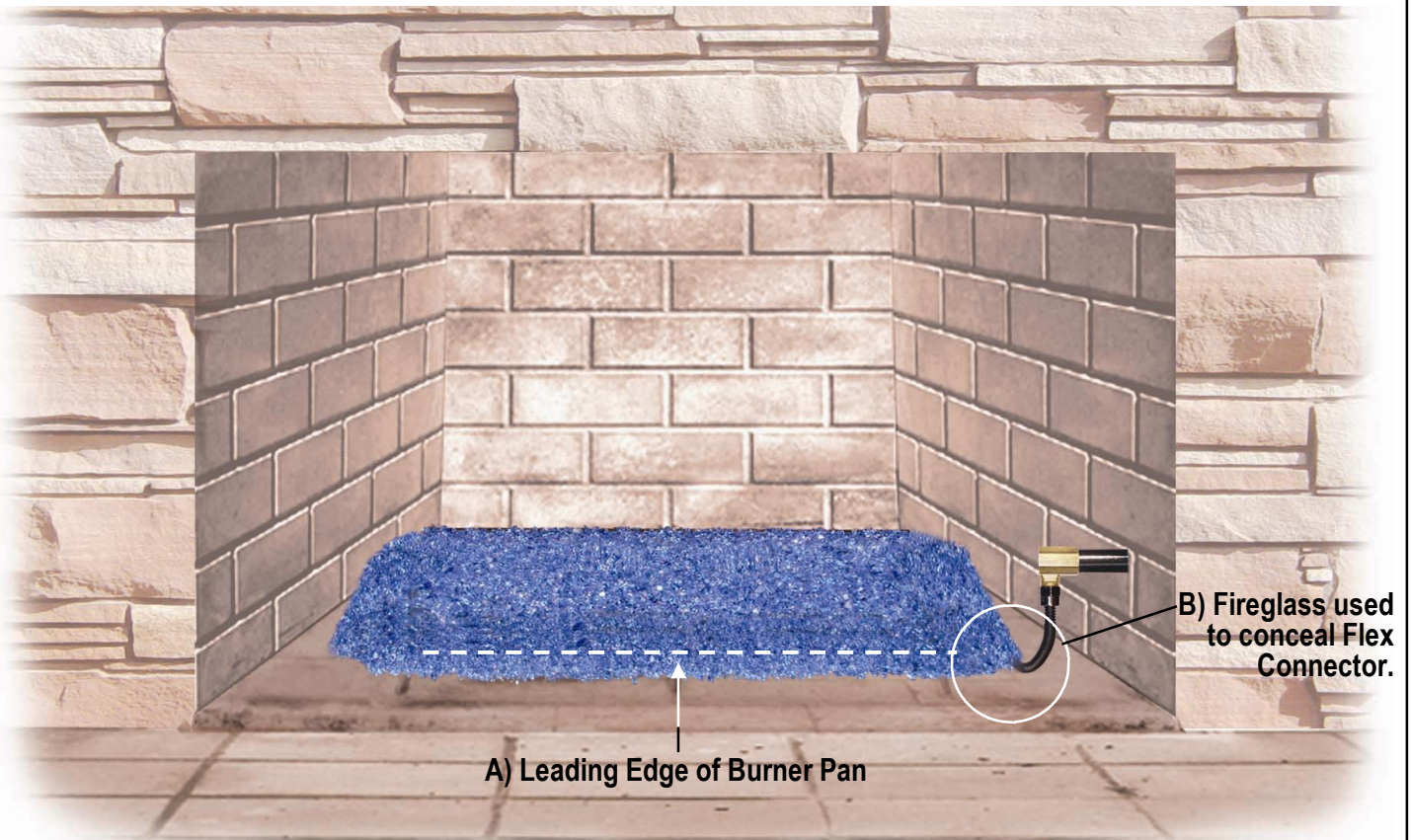


FIGURE 9

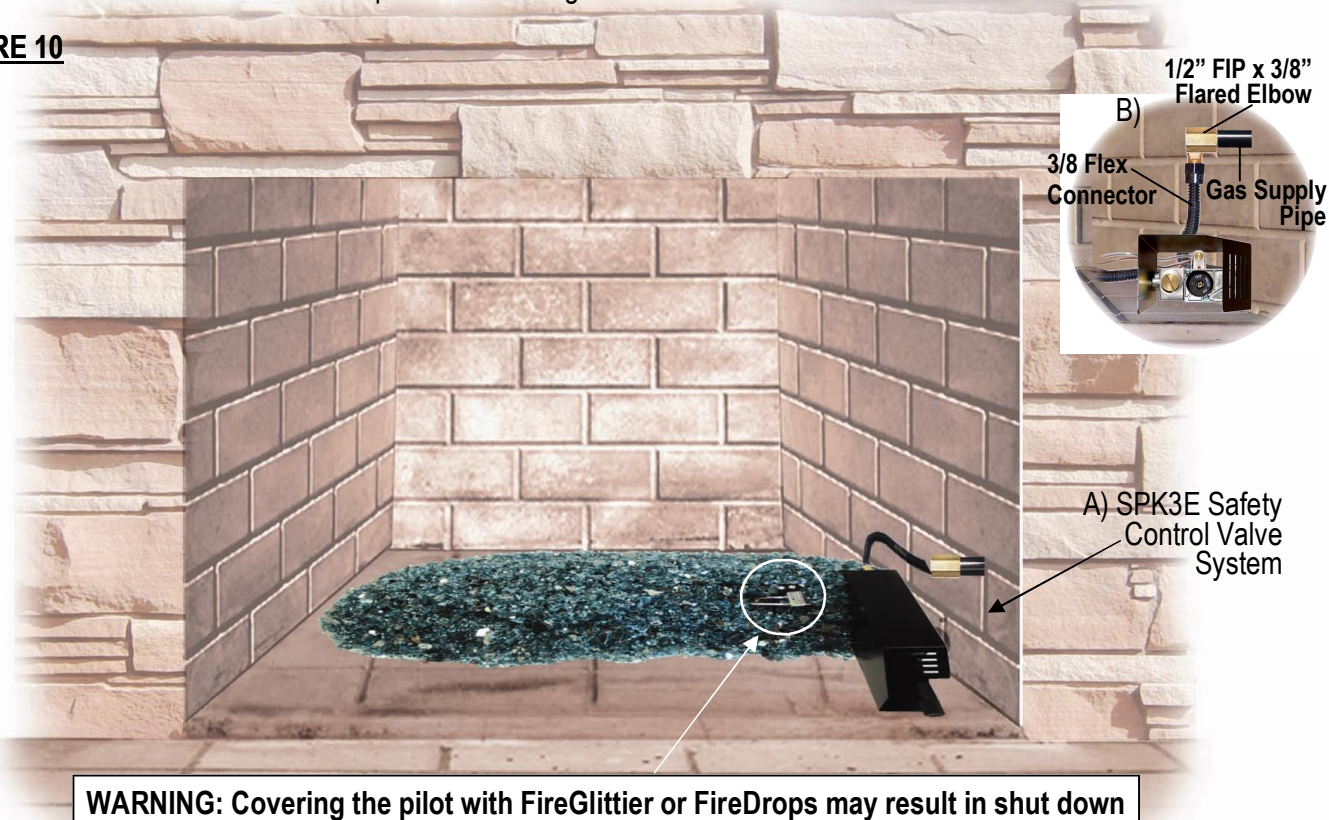
Below: Standard **Match Lit Natural Gas** burner shown below with. Volcanic Ash or Glass may also be used around the outside of the Burner Pan for a decorative effect and to conceal the Flex Connector (Figure 9B).



WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this heater may result in property damage or personal injury.

Model shown below with Optional SPK3E Control (Figure 10A), FIREGLITTER AND FIREDROPS used inside the Burner Pan as pan medium and sprinkled around the outside of the Burner Pan for a decorative effect. Pan Medium may also be used to conceal the Flex Connector. The “EASY” Safety Valve or “Millivolt Control” may also be placed open face side down with heat shield up as shown in Figure 10B.

FIGURE 10



STEP SEVEN: LIGHTING AND OPERATING INSTRUCTIONS

WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

Applies to Natural Gas Models only. Propane Models refer to individually supplied instructions.

BEFORE LIGHTING: Smell around the burner area and next to floor for gas. Some gas is heavier than air and may settle on the floor. If you smell gas follow the instructions on page 1.

• **STANDARD MATCH LIGHTING**

1. Place lighted match on embers near inlet end of burner (Figure 20).
DO NOT HOLD MATCH IN HAND! Move away from front of fireplace.
2. Slowly open Fireplace Gas Supply Valve and wait for burner to light.
3. Adjust Fireplace Gas Supply Valve for desired flame height.
4. To shutdown close Fireplace Gas Supply Valve completely.

• **MATCH LIGHTING WITH OPTIONAL ACCESSORY V-17 VALVE**

1. Ensure that the Manual V-17 Valve is completely closed.
2. Open Fireplace Gas Supply Valve.
3. Place lighted match on embers near inlet end of burner (Figure 20)
DO NOT HOLD MATCH IN HAND! Move away from front of fireplace.
4. Slowly open Manual V-17 Valve and wait for burner to light.
5. Adjust Fireplace Manual V-17 Valve for desired flame height.
6. To shutdown close both Manual V-17 Valve and Fireplace Gas Supply Valve completely.

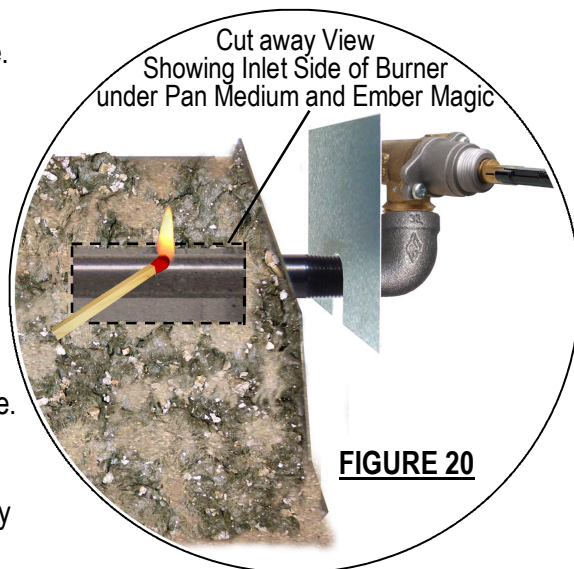


FIGURE 20

MILLIVOLT SWITCH LIGHTING AND OPERATION (RPK3 "Millivolt Control")

NOTE: The **Valve Knob** has complete control of gas to pilot and burner. The **Valve Knob** cannot be turned to "OFF" without first depressing knob in "PILOT" position and then rotating clockwise to "OFF".

STEP ONE: Pilot Lighting (Remote Valve):

1. Depress and turn **Valve Knob** clockwise to "OFF" position. (Figure 11)
2. Set Accessory Control (Figure 14) to "OFF" (Switch or Remote Control) or to lowest temperature setting (Thermostat)
3. Wait at least 5 minutes to allow gas which may have accumulated around burner to escape.
4. Turn **Valve Knob** counter clockwise to "PILOT" position. (Figure 12)
5. Depress and hold **Valve Knob** until air is bled and gas flows to pilot.
6. Light pilot (Figure 16). Continue to hold in the **Valve Knob** until the pilot flame remains lit when knob is released (approximately 60 to 90 seconds). If Pilot does not remain lit, repeat steps 1 through 5 and allow more time after pilot lighting before releasing knob.
7. Turn **Valve Knob** to "ON". (counter clockwise Figure 13) (Black terminal wire removed to allow unobstructed view)

FIGURE 11

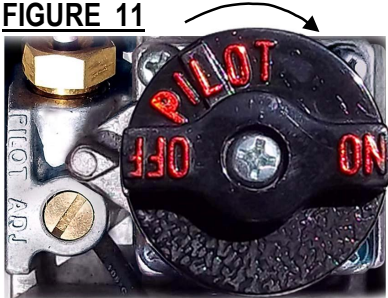


FIGURE 12

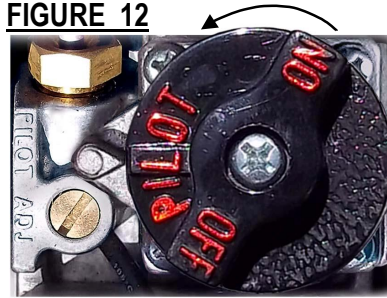
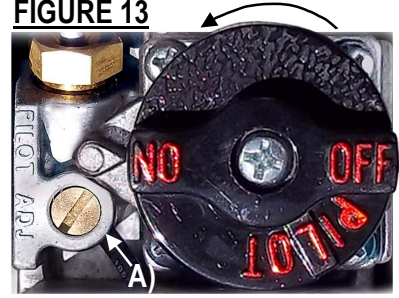


FIGURE 13



ADJUSTING BURNER FLAME HEIGHT USING THE REMOTE VALVE

Flame size at the burner is adjustable at the **Gas Valve Knob**. Turn the **Valve Knob** counter clockwise for more flame, clockwise for less flame.

For **Complete Shutdown (Including Pilot)**: Slightly push and turn **Valve Knob** to "OFF".

Switch Accessory Wiring: Wiring from the Accessory Control (Remote, Thermostat or Switch) is connected to the **outside terminals** (Figure 15A and 15B) of the **Control Selector Switch** (Figure 14 and Figure 15C).

NOTE: Wire length for Thermostat, Remote or Controls should no exceed 20 feet. Thermostat wiring should be 20 AWG Type CL2

Switch Accessory Operation: Place the **Control Selector Switch** (Figure 14) in the "REMOTE ACCESS ON" position. Burner "ON" or "OFF" is now controlled by the position of the accessory control being used with the burner. Individual operating instructions for each Remote Accessory Option are included with the accessory.

FIGURE 14

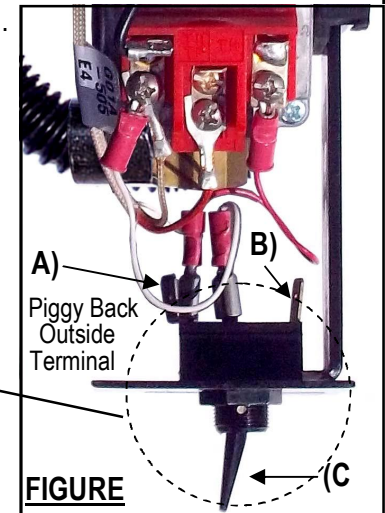
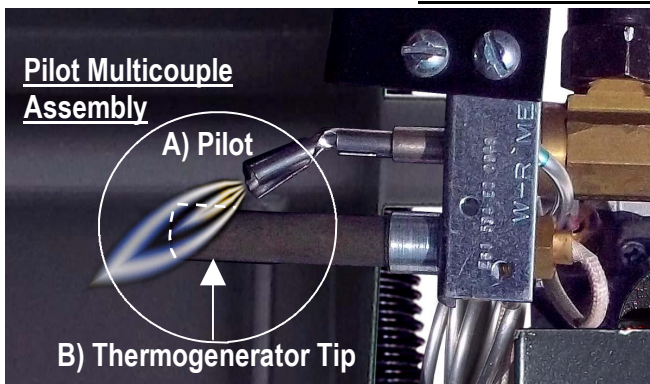


FIGURE 16

STEP TWO: PILOT ADJUSTMENT (Switch and Remote Valve)



1. The Pilot flame should be steady and soft blue, surrounding the **THERMOGENERATOR TIP** (Figure 16B).
2. If pilot flame adjustment is necessary, use a narrow long stem flathead screwdriver to turn **PILOT ADJUSTMENT SCREW** (Figure 16A) above.
3. Turn clockwise for less flame, counterclockwise for more.
4. If after pilot adjustment the burner begins to shutdown, re-adjust for a longer pilot flame.

Connecting Accessory Controllers: Using the 20' accessory control wiring attached to the two **outside terminals** of the valve block (Figure 15A and 15B), connect the **Switch Control Accessory Option** (Remote, Thermostat, Switch, etc.) to valve.

WARNING:

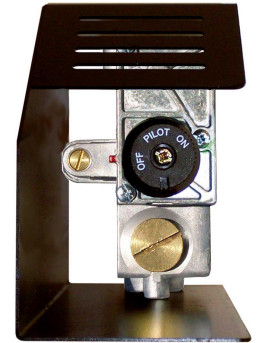
AN "EASY" SAFETY PILOT MUST BE INSTALLED ON ALL UNITS DESIGNED OR CONVERTED TO BURN PROPANE GAS. THE "EASY" SAFETY PILOT CONTROL SYSTEM IS OPTIONAL FOR NATURAL GAS UNITS.

If utilizing the "EASY" Safety Pilot System with your Flaming Ember Burner use the individually supplied instructions in conjunction with this instruction manual.

SPK3E

Manual Safety Pilot Control

The Manual Safety Pilot Control (standing pilot) provides safety shutdown in the event of an interruption of the gas supply or flameout. It also provides a convenient means of lighting the burner and controlling flame height. A safety control is required for all propane installations, advisable for natural gas, and is required for certain jurisdictions. "EASY" control allows for upgrade to remote operation at a later time. Refer to individually supplied instructions.



RMC1E

Wireless Variable Flame Height Remote Safety Pilot "EASY" Control.



Light the burner and adjust the flame height with the hand-held wireless remote transmitter. Provides safety shutdown in the event of an interruption in the gas supply or flameout. It also provides a convenient means of lighting the main burner. A safety control is required for all Propane installations, is advisable for natural gas, and is required in certain jurisdictions. (Comes with Variable Flame Height Remote Control Transmitter, and Remote Receiver). Refer to individually supplied instructions.

RPK3E

Remote Ready Safety Pilot "EASY" Control.

Requires one of the Wireless Remoter Transmitter Devices (below) to light the main burner. Adjust the flame height manually by turning the knob at the valve. Provides safety shutdown in the event of an interruption in the gas supply or flameout. Also provides a convenient means of lighting the main burner. A safety control is required for all Propane installations, is advisable for natural gas, and is required in certain jurisdictions. The RPK3E Model comes with the Remote Receiver shown below left and may be controlled by any one of the five Wireless Remote Transmitter Devices shown here (each sold separately) Refer to individually supplied instructions.



PROPER MAINTANANCE

- Keep the area around the log set clean and clear of debris.
- When logs develop soot, turn burner on for 15 minutes then lightly spray soot areas with water. Soot will then evaporate.
- Periodically examine and clean the venting system. Once every year, a qualified agency or certified chimney sweep should examine and clean the venting system of the solid fuel burning fireplace in which the log set is installed.

APPLIANCE BREAK-IN

During the 2-3 hour appliance break-in period, you may detect an odor from the appliance as the various water- based paints used in the manufacture of this log set cure. This is normal and temporary situation that is not a cause for alarm. However, you may want to provide extra ventilation to the room during this time.

To ensure proper curing of the logs:

- 1) Ignite a 2" flame and maintain it for 1/2 hour.
- 2) Burn the logs in consecutive 1/2 hour periods, raising the flame an additional 2" to full flame height for a total of three hours.

TROUBLE SHOOTING

Log Set is Smoking/Sooting Excessively

It is natural and unavoidable for vented log sets to produce moderate levels of carbon (soot) where flame contacts the logs. However, if soot is produced where there is no flame impingement, one of the following may be the cause;

Fireplace venting system not drafting properly: Make sure the damper is wide open at all times. Preheat the flue in very cold weather by burning the log set at very low level, then slowly increasing the flame height over a matter of hours. Have the fireplace and the venting system professionally cleaned.

Excessive flame impingement or blockage: Make sure there is proper spacing between the logs so they are not smothering the flame. Rearrange the logs so they are touched less by the flames.

Excessive gas supply/pressure: Make sure the gas pressure coming into the fireplace does not exceed the maximum pressure allowed with this gas set (refer to page 2). If you are using the gas logs with an "EASY" Safety Pilot Kit, make sure you installed the correct orifice into the set.

Burner is Excessively Noisy

Please Note: The movement and combustion of gas will create low, unavoidable levels of noise.

Excessive gas pressure: Make sure the gas pressure coming into the fireplace does not exceed the maximum pressure allowed with this gas set (refer to page 2). If you are using the gas logs with an "EASY" Safety Pilot Kit, make sure you installed the correct orifice into the set.

Passage of air/gas across irregular surfaces: There may be burrs, paint or other blockages on the burner bar ports. Check these ports and remove any blockage.

Gas Connector: Relieve any tight bends or kinks in the Flex Connector or switch to a smooth aluminum or copper connector, which can be purchased at hardware or home improvement stores. Do not use Flex Connectors other than those supplied by Rasmussen.

Burner Flame is Too High (8-12" Above Top Logs) or Too Low (Below Top Logs)

Incorrect gas supply, pressure, or burner orifice used: Make sure the gas pressure coming into the fireplace falls between the minimum and maximum pressures allowed with this gas set (refer to page 2). If you are using the gas logs with a safety pilot kit, make sure you installed the correct orifice.

Blocked ports (low flame only): Free the main burner orifice and burner bar ports of any burrs, paint or other blockage.

SERVICE AND TROUBLESHOOTING GUIDE FOR MODELS USING THE "EASY" SAFETY PILOT KIT

Analysis and correction of control of service problems must be made by qualified gas service technicians only. Attempts to service or repair the "EASY" Safety Pilot Kit by other than authorized service personnel will void the manufacture's warranty. In general, failure of "EASY" Safety Pilot Control may be due to the reasons noted below:

1. Pilot will not light initially:
 - Check for loose Thermocouple terminal nut connection. Finger tip tighten plus 1/4 turn with wrench.
 - Check for improper pilot flame adjustment.
 - Check that Valve Knob is fully depressed during pilot lighting operation and held depressed for 30 to 60 seconds.
 - Check for defective Thermocouple.
 - Check for defective thermo magnet unit.
2. Pilot / Main burner clicks off after 5 to 30 minutes of burning:
 - Valve and Thermocouple are not defective, otherwise pilot would not initially light.
 - Thermocouple loses temperature difference between hot tip and cold junction (base).
 - Check that only tip of Thermocouple is in main burner flame.
 - Remove then replace logs to alter heat radiation pattern. Ensure that glass doors are open.
 - Ensure that proper size gas log set is installed. Too large of a set decreases cooling air flow.

LIMITED LIFETIME CONSUMER PRODUCT WARRANTY

The following warranty has been drafted to comply with the MAGNUSON-MOSS WARRANTY ACT applicable to products manufactured after July 4, 1975, It replaces and supersedes any warranty in this package or in any printed literature.

LIMITED WARRANTY:

RASMUSSEN IRON WORKS INC, 12028 E. Philadelphia Street, Whittier California, U.S.A., warrants this Gas Log Set and accessories against defects in materials and workmanship, and suitable for a particular purpose, for a period of:

Home (Non-Commercial use):

- (1) LOG CASTINGS - All logs are guaranteed against crumbling in the original installation for the lifetime of the initial purchaser.
- (2) BURNERS/GRATES - 2 Years from date of purchase.
- (3) SAFETY CONTROLS - Pilots and Safety Controls are covered by warranty of the original manufacturer only.

Commercial Use:

All components - 1 year from date of purchase

THIS WARRANTY IS FOR THE BENEFIT OF THE ORIGINAL PURCHASER.

WARRANTY ADJUSTMENT:

- (1) RASMUSSEN agrees to repair or furnish a replacement for, but not remove or install any product or component which proves defective within the above warranty and appropriate time periods stated.
- (2) BUYER notify RASMUSSEN of any defect within this warranty no later than thirty (30) days after a defect is discovered.
- (3) No product will be accepted for return or replacement without written authorization of RASMUSSEN. Before returning merchandise, write to RASMUSSEN Giving us full details of the complaint and a copy of the sales receipt or other evidence of the purchase date. Merchandise returned without proof of purchase date will be serviced out-of-warranty at our prevailing service and parts rates. If merchandise was damaged in transit, the file claim must be addressed as follows:

RASMUSSEN IRON WORKS INC
12028 E. PHILADELPHIA STREET
WHITTIER, CALIFORNIA 90601

Shipping

charges must

be pre-paid by the buyer.

REPAIR OR REPLACEMENT UNDER THIS WARRANTY WILL BE SHIPPED FREIGHT COLLECT.

EXCLUSIONS FROM WARRANTY:

- (1) The foregoing warranty is limited solely as set forth herein and applies only for the designated above.
- (2) RASMUSSEN shall not be liable for any loss, damage incidental or consequential damages of any kind, whether based upon warranty, contract, or negligence, arising in connection with the sale, use or repair of the product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
- (3) The maximum liability of RASMUSSEN in connection with this limited warranty shall not in any case exceed the contract price paid for the product claimed to be defective or unsuitable.
- (4) This warranty does not extend to any product manufactured by RASMUSSEN which has been subjected to misuse, neglect, accident improper installation, or use in violation of instructions furnished by RASMUSSEN.
- (5) This warranty does not extend to or apply to any unit which has been repaired or altered in any place other than RASMUSSEN IRON WORKS INC. factory, or by persons not expressly approved by RASMUSSEN.
- (6) Components manufactured by any supplier other than RASMUSSEN shall bear only that warranty made by the manufacturer of that product.
- (7) Freight damage, cracking from thermal shock, and color changes occur from causes beyond manufacturer's control and are not covered by any warranty.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

RASMUSSEN IRON WORKS, INC. shall be held harmless from any and all claims by the buyer as a result of injury or damage to an Ultimate user or other person caused by the product sold herein by the seller to the buyer, whether the injury or damage results from the assembly, product installation, operation, shipment, storage or manufacture of this product. RASMUSSEN IRON WORKS, INC. makes no warranties, expressed or implied, other than those expressly stated herein.

* CUSTOMER RESPONSIBILITY *

Your Gas Log is designed to burn with a natural smoky yellow flame that produces carbon soot. Like a wood fire, burning a Gas Log with the flue blocked or closed will cause fumes and smoke to remain in the room and cause health hazards.

DAMPER MUST BE FULLY OPEN WHEN BURNING A GAS LOG SET.

CONSUMER RECORD CARD

Please record and retain information for future reference. Register your product at www.rasmussen.biz



LOG MODEL: _____
SAFETY CONTROL: _____
DATE OF PURCHASE: _____
DEALER: _____
INSTALLER: _____