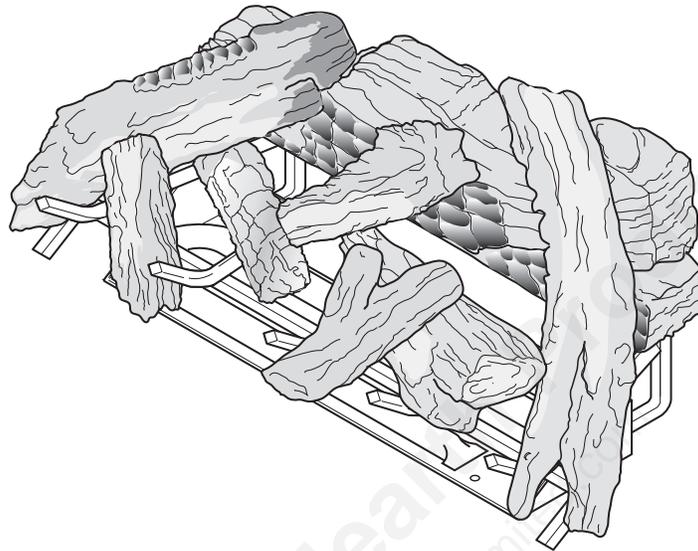


# MHS

## VENTED GAS LOG SET

### INSTALLATION AND OPERATING INSTRUCTIONS



#### MODELS

VWF18NA VWF24NA VWF30NA VWF36NA



This gas log set is to be installed only in a solid-fuel burning fireplace with a working flue constructed of noncombustible material.

## WARNINGS

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.

**READ AND SAVE THESE INSTRUCTIONS**

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## IMPORTANT SAFETY INFORMATION

### INSTALLER

Please leave these instructions with the appliance.

### OWNER

Please retain these instructions for future reference.

### IMPORTANT

Read these instructions carefully before installing or trying to operate this vent-free gas heater.

### WARNING

- Any change to this heater or its controls can be dangerous.
- Improper installation or use of the heater can cause serious injury or death from fire, burns, explosion or carbon monoxide poisoning.
- Do not allow fans to blow directly into the stove. Avoid any drafts that alter burner flame patterns.
- Do not use a blower insert, heat exchanger insert or other accessory, not approved for use with this heater where applicable.

1. The installation, combustion and ventilation air must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1.
2. Installation and repair should be done by a qualified service person. MHS Vented Gas Logs must be installed only in a masonry or a UL 127 solid-fuel fireplace with minimum venting requirements, see installation section.
3. To prevent malfunction, gas log set and flue should be cleaned at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, etc. It is imperative that control compartments, burners and circulating air passageways be kept clean.
4. **A damper clamp must be installed to provide the minimum permanent vent opening to vent flue products, Refer to installation instructions.**
5. Never burn solid fuels in a fireplace where a gas log set is installed.
6. ***This appliance must NOT be used with glass doors in the closed position.*** A fireplace screen must be in place when the log set is burning. Provisions for adequate combustion air must be provided. Adequate combustion air usually results in all flames curling into the fireplace away from screen and up the flue.
8. Keep room area clear and free from combustible materials, gasoline and other flammable vapors and liquids.
9. Children and adults should be alerted to the hazard of high surface temperature and should stay away to avoid burns or clothing ignition.
10. Young children should be carefully supervised when they are in the same room with the gas log set in operation.
11. Do not place clothing or other flammable material near the fireplace when the gas logs are in use.
12. Do not use this gas log set if any part has been underwater. Immediately call a qualified service technician to inspect the gas logs and replace any part of the control system and any gas control which has been under water.
13. The gas log set must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5kPa).
14. Secure gas log set to fireplace.
15. This log set will burn off the paint on the front grate bar.  
**Note: See cleaning section for refurbishing.**
16. LP sets must be installed with SPK-LP or MVVKLP kits.
17. **FOR MASSACHUSETTS RESIDENTS ONLY:**

### WARNING

**This product must be installed by a licensed plumber or gas fitter when installed within the Commonwealth of Massachusetts.**

Installation of this vented gas log in the Commonwealth of Massachusetts requires the damper be permanently removed or welded in the full open position. In addition, a naturally vented gas log may not be installed in a bedroom or bathroom in the Commonwealth of Massachusetts. Flex line installation must not exceed 36".

### WARNING

**This appliance is for installation only in a solid fuel burning fireplace (masonry fireplace or manufactured fireplace)**

*Continued on page 4*

## SAFETY INFORMATION



www.nficertified.org

We suggest that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as Gas Specialists.

**WARNING**

Never connect unit to private (non-utility) gas wells. This gas is commonly known as wellhead gas.

## PRODUCT SPECIFICATIONS

Model	A	B	C	D
VWF18NA	18"	12"	12 <sup>1</sup> / <sub>2</sub> "	16 <sup>1</sup> / <sub>2</sub> "
VWF24NA	24"	12"	14"	20"
VWF30NA	30"	11"	18"	26"
VWF36NA	36"	12"	20"	28"

### MINIMUM HEARTH DIMENSIONS

Model	A	B	C
VWF18NA	17"	13"	20"
VWF24NA	23"	13"	26"
VWF30NA	24"	13"	32"
VWF36NA	36"	13"	34"

For SPK and CVTHL Kits, add 4" to C and A Dimensions.

For MVVK Kit, add 8" to C and A Dimensions.

For SRO and WP logs, add 8" to C and A dimensions with or without any control valve.

The minimum inlet gas supply pressure is 4" for natural and 10" for LP.

The maximum inlet gas supply pressure for this log set is 10" for natural and 13" for LP.

### Nominal Rates (BTU/Hr)

VWF18NA 80,000	VWF30NA 90,000
VWF24NA 90,000	VWF36NA 90,000

**Note: Actual performance, flame height, BTU/Hr will vary with specific installation, gas pressure, shutoff valve position (fully open), valve type, and firebox draft conditions.**

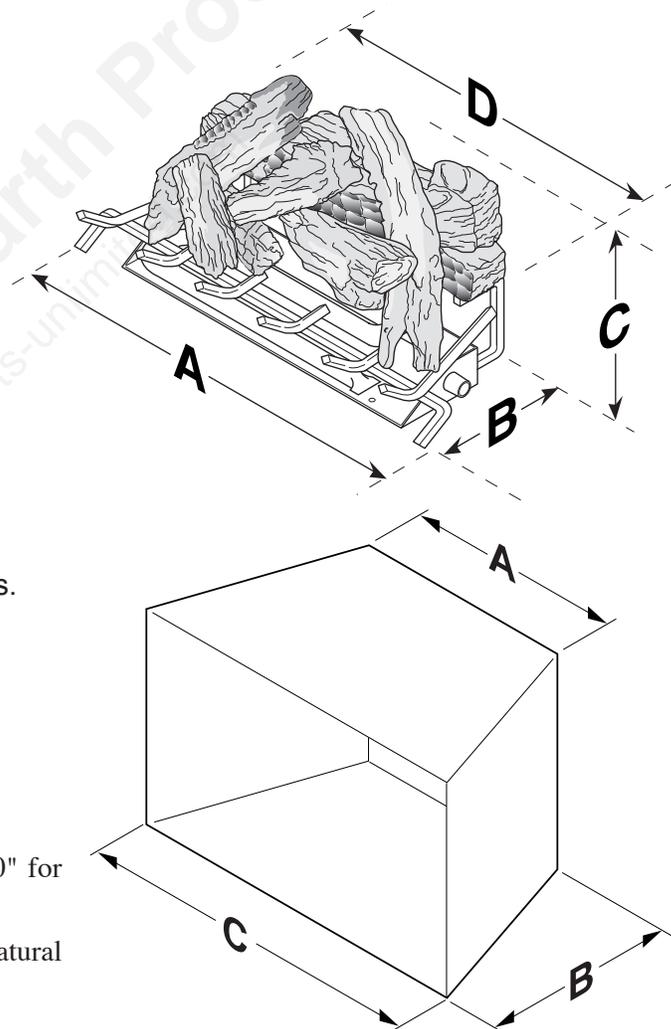


Figure 2 - Minimum Hearth Dimensions

## MAKE SURE YOU HAVE RECEIVED ALL PARTS

Check your packing list to verify that all listed parts have been received. You should have the following:

### BURNER - GRATE ASSEMBLY 18", 24", 30", 36"

- Burner and Grate Weldment Assembly
- Lava Rocks (x2)
- Reducer
- Glowing Embers (Rock Wool)
- Damper Clamp
- Injector
- Installation /Operating Instructions
- Vermiculite
- 3/8" Aluminum Tube with 3/8" 90° Elbow, 1/2" to 3/8" tube fitting
- Shield Plate

### 18", 24", 30" OR 36" CERAMIC FIBER OR REFRACTORY LOGS

- Individual Logs
- Installation Instructions

**WARNING**

- Handle the gas log burner assembly by the grate only. Do not pick the unit up by the burner.
- Gloves are recommended when handling ceramic fiber logs to prevent skin irritation from loose fibers. Logs are fragile — handle with care.

Carefully inspect the contents for shipping damage. If any parts are missing or damaged, immediately inform the dealer from whom you purchased the appliance. **Do not attempt to install any part of the appliance unless you have all parts in good condition.**

## ITEMS REQUIRED FOR INSTALLATION

Ensure that the following items are available before proceeding with installation:

- External regulator (for propane/L.P.G. only)
- Shutoff valve
- Pipe wrench
- Piping which complies with local codes
- Drill with masonry bit (for mounting to the floor)
- Pipe sealant approved for use with propane/L.P.G. (Resistant to sulfur compounds)

## MINIMUM FREE OPENING AREA OF CHIMNEY DAMPER FOR VENTING

**WARNING**

The fireplace and gas logs function as a system. If the fireplace is not drafting properly and spilling into the room (check with a match or a smoke stick), reposition the damper clamp until the positive draft is obtained by opening the damper. If negative pressure in home prevents having a positive draft, contact your dealer for assistance.

## MINIMUM CHIMNEY HEIGHT AND FLUE OPENING

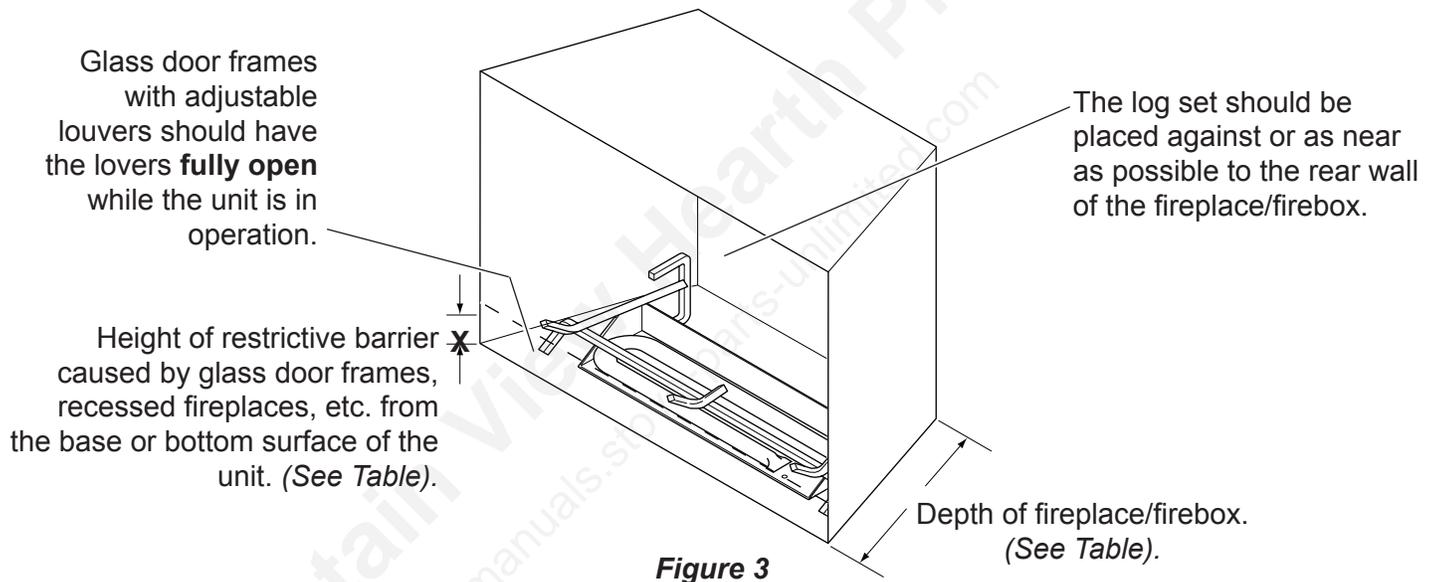
Chimney Height	Flue Opening
6'	64 sq in
8'	64 sq in
10'	64 sq in
15'	51 sq in
20'	51 sq in
30'	51 sq in

## PLACEMENT IN A FIREPLACE WITH A RESTRICTIVE BARRIER

### IMPORTANT INFORMATION FOR THE INSTALLATION OF THIS GAS LOG SET

The following are guidelines for placing a VWF log set with SPK, MVVK, or CVTHL kit in a fireplace that has a restrictive barrier along the bottom front opening of the fireplace. Some examples of barriers are glass/screen door frames and sunken/recessed fireplaces.

Height of Restriction (X)	Minimum Depth of Fireplace/Firebox
No restriction	13" - SPK Manual Control 13½" - MVVK (Millivolt Control) and MXVK (Hi/Lo Control)
0 to 1.5"	15"
Greater than 1½" to 3"	15"
Greater than 3:	Any barrier greater than three inches (3") placed in front of the gas log set is not recommended by the manufacturer.



**WARNING** Barriers such as the bottom of a glass door frame placed in front of a gas log set can change the air flow characteristics of the fireplace which in turn can cause the unit to overheat and malfunction. Any deviation from the installation guidelines on this sheet will potentially void the warranty.

**NOTE:** Non combustible material such as refractory brick may be used to line the floor of the fireplace in order to raise the height of the gas log set in relation to a restrictive barrier.

**CAUTION** If the fireplace has a restrictive barrier and is equipped with a remote receiver, it must be placed outside. See *Remote Control Receiver Replacement* page 49.

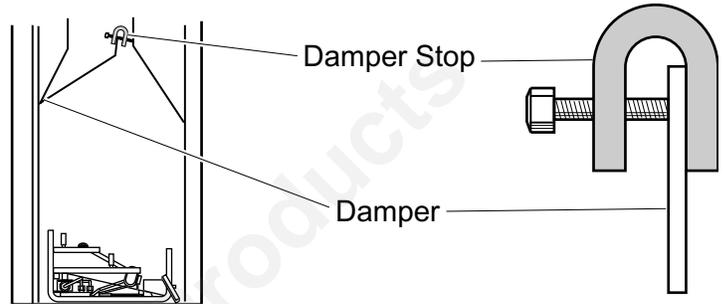
**INSTALL AND OPERATE THE APPLIANCE AS DIRECTED IN THIS MANUAL.**

## DAMPER STOP INSTALLATION

A damper stop must be provided with the unit. The damper stop must be installed as shown in *Figure 4* to prevent full closure of the fireplace damper blade and provide a minimum flue opening, *per table on page 5*.

Should the clamp not fit, or provide the required permanent opening from the table, have the damper cut to provide a minimum permanent opening or install a permanent stop.

**FOR MASSACHUSETTS RESIDENTS ONLY:** Installation of this vented gas log in the Commonwealth of Massachusetts requires the damper be permanently removed or welded in the full open position. In addition, a naturally vented gas log may not be installed in a bedroom or bathroom in the Commonwealth of Massachusetts.



**Figure 4 - Damper Stop Installation**

In compliance with ANSI Z21.60•CGA2.26 and National Fuel Gas Code, Section 6.

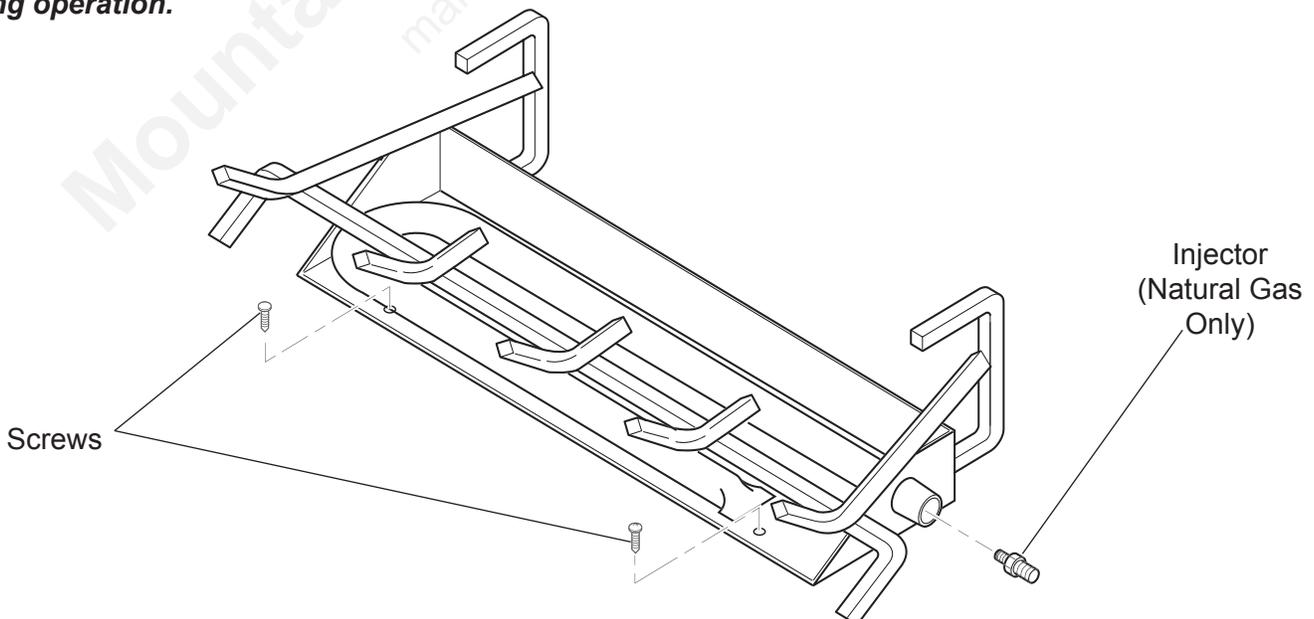
## BEFORE INSTALLING THE APPLIANCE

- Turn off gas supply to fireplace or firebox.
- Clean fireplace floor and chimney before installing log set. Seal any ash. Clean out doors to protect the unit from down drafts.

## ASSEMBLY PROCEDURE

1. Place grate/burner assembly into firebox with the front pan facing forward.
2. Drill two (2)  $\frac{5}{32}$ " diameter holes approximately  $1\frac{1}{2}$ " deep.
3. Anchor the front pan to the floor using the screws provided.

**Proper installation of the grate is essential to prevent any movement of the gas logs and controls during operation.**



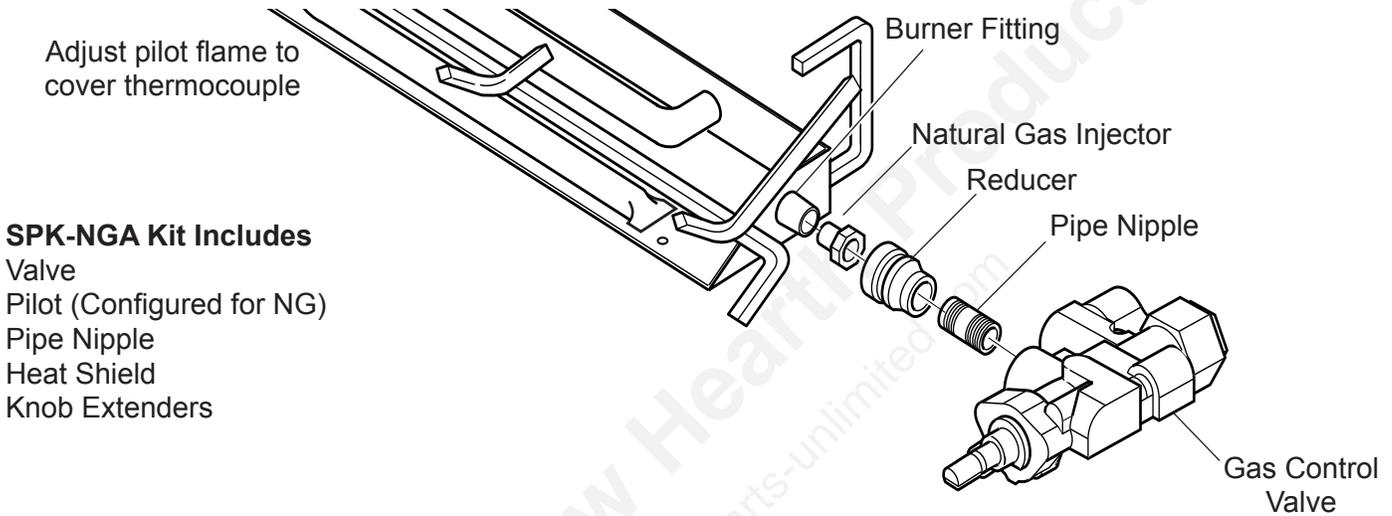
**Figure 5 - Securing Grate/Burner Assembly into Firebox**

# INSTALLATION FOR GAS VALVE KITS

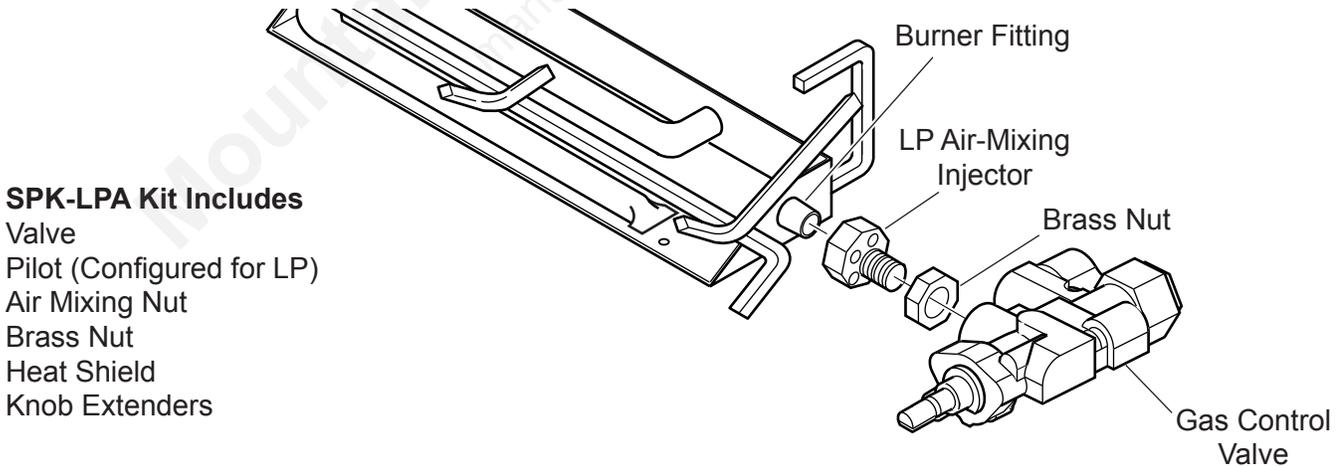
**WARNING**

LP sets must be installed with a SPK or MVVKLP Kit which includes the air mixing nut and vermiculite. The natural gas orifice must be removed.

## SUPPLEMENTAL INSTRUCTIONS FOR SPK-NGA/SPK-LPA



**Figure 6 - Connecting Valve to Unit (Natural Gas only)**

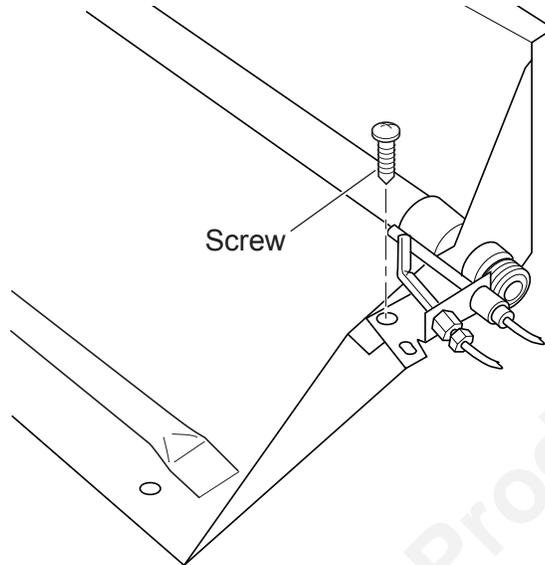


**Figure 7 - Connecting Valve to Unit (LP only)**

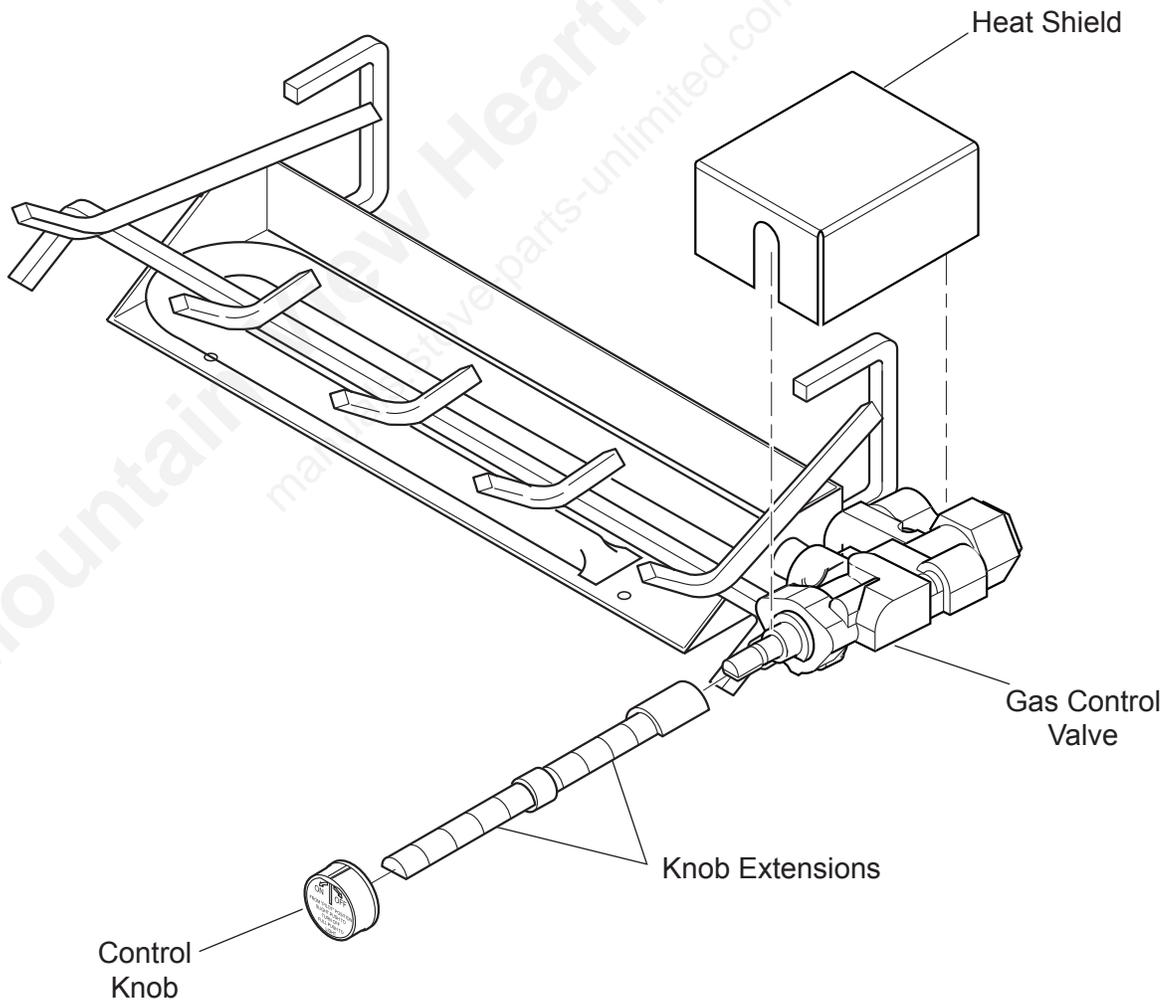
The Safety Pilot Kit attaches to the burner pan as shown above.

Use soapy water when checking all fittings for leaks.

# INSTALLATION FOR GAS VALVE KITS



**Figure 8 - Installing Pilot**

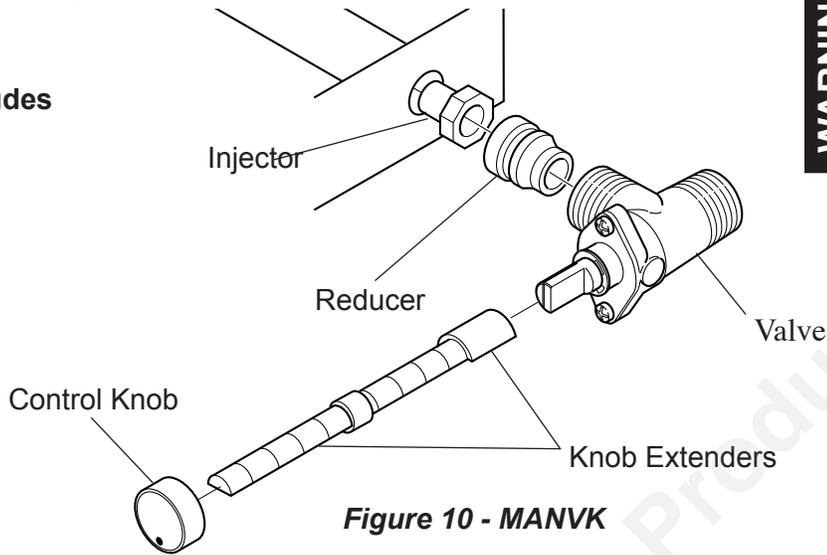


**Figure 9 - Installing Heat Shield**

# INSTALLATION FOR GAS VALVE KITS

## SUPPLEMENTAL INSTRUCTIONS FOR MANVK

**MANVK Kit Includes**  
 Valve  
 Knob Extenders  
 Control Knob



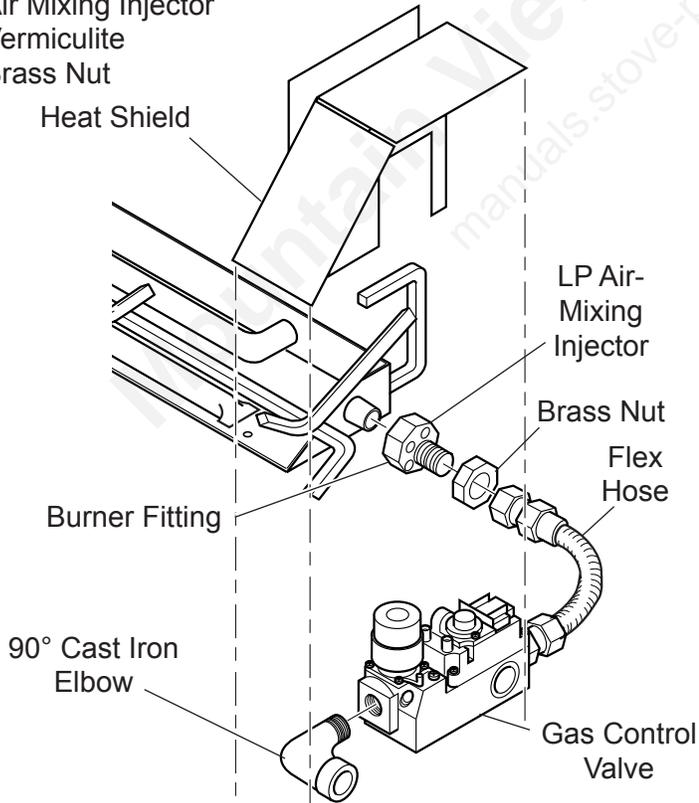
**Figure 10 - MANVK**

**WARNING**

The MANVK kit is for Natural Gas Only

## SUPPLEMENTAL INSTRUCTIONS FOR MVVKLPA

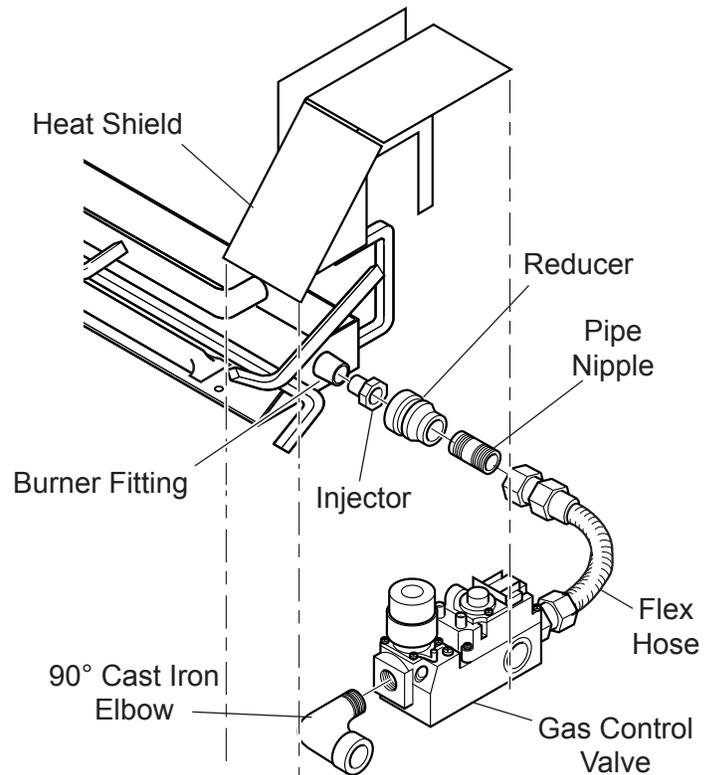
**MVVKLPA Kit Includes**  
 Valve Assembly  
 Pilot  
 Heat Shield  
 Air Mixing Injector  
 Vermiculite  
 Brass Nut



**Figure 11 - MVVKLPA**

## SUPPLEMENTAL INSTRUCTIONS FOR MVVKNA

**MVVKNA Kit Includes**  
 Valve Assembly  
 Pilot  
 Heat Shield  
 Pipe Nipple

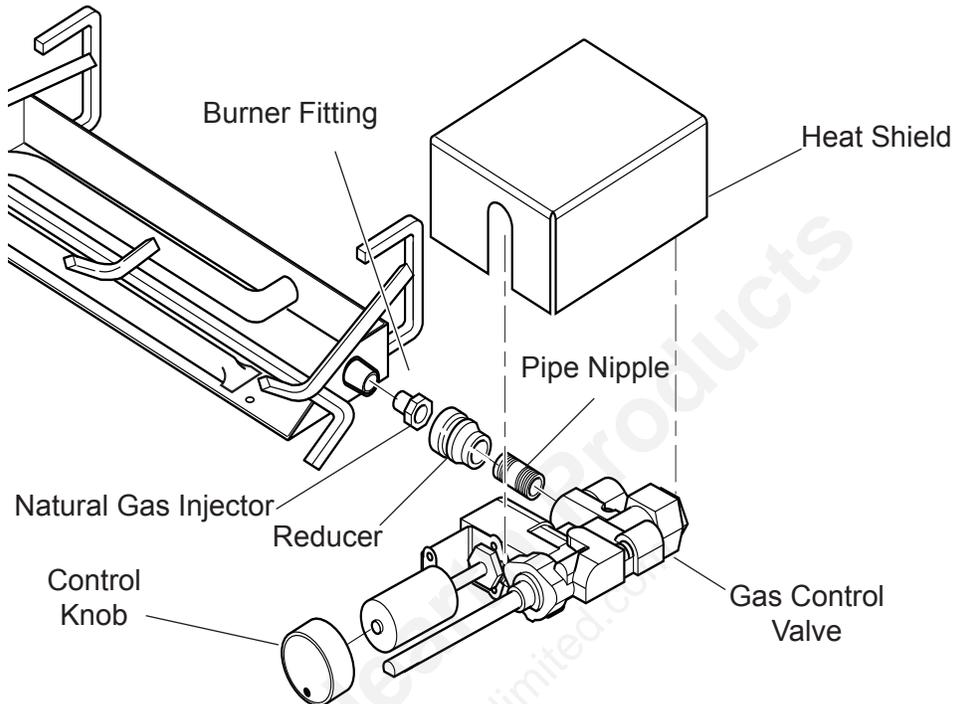


**Figure 12 - MVVKNA**

## SUPPLEMENTAL INSTRUCTIONS FOR CVTHL-NG

### CVTHL-NG Kit Includes

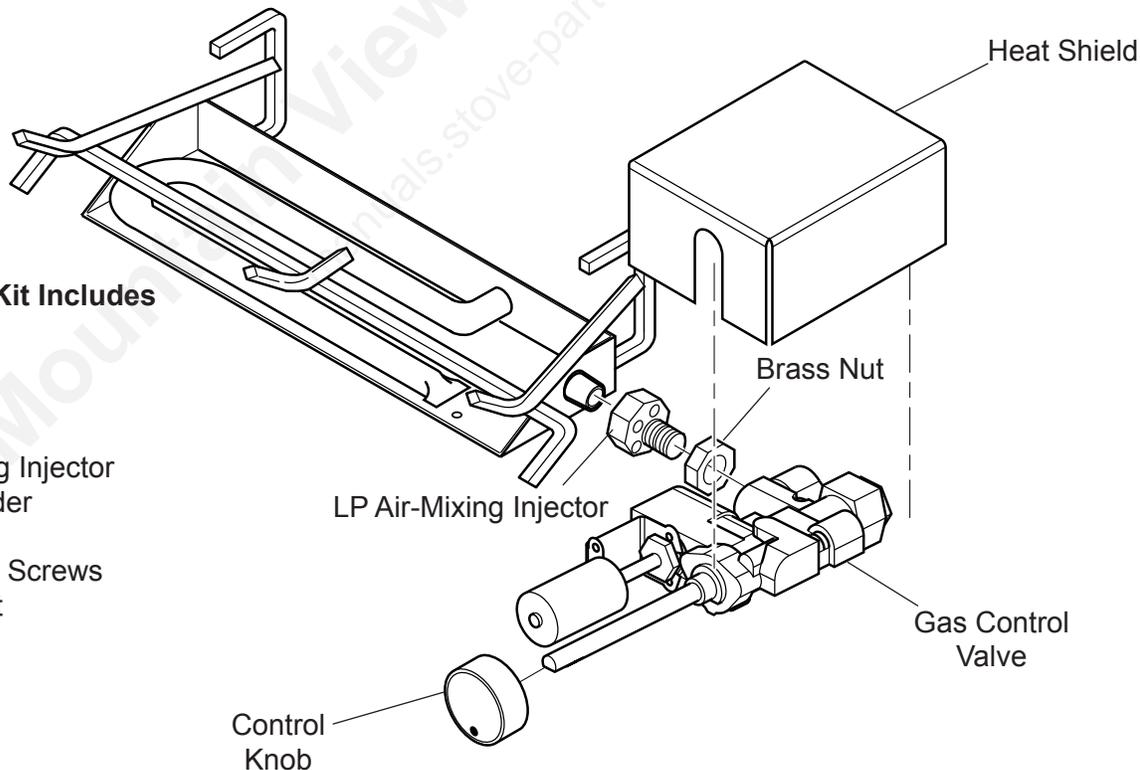
- Valve
- Pilot for NG
- Pipe Nipple
- Knob Extender
- Heat Shield
- Self Tapping Screws
- Pilot Bracket



**Figure 13 - CVTHL-NG Connecting Valve to Unit (Natural Gas only)**

### CVTHL-LP Kit Includes

- Valve
- Pilot for LP
- Brass Nut
- Vermiculite
- LP Air-Mixing Injector
- Knob Extender
- Heat Shield
- Self Tapping Screws
- Pilot Bracket



**Figure 14 - CVTHL-LP Connecting Valve to Unit (LP only)**

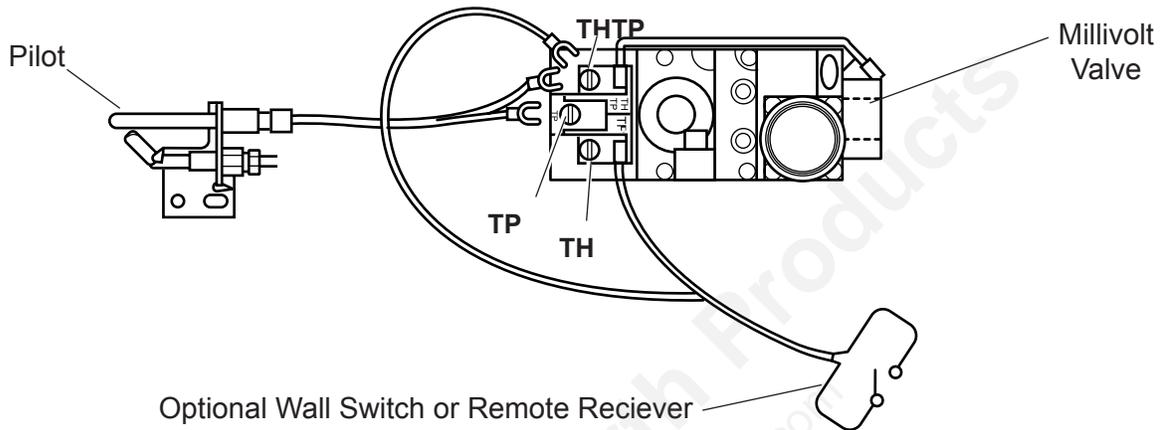
## WIRING (MILLIVOLT)

**WARNING**

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing

**WARNING**

Do not connect to 110 volt supply



**Figure 15 - Wiring Diagram**

The Millivolt (thermopile) is a self powered combination gas control that does not require 110VAC to operate. See Figure 15 and installation instructions provided with optional wall switch or remote control for wiring instructions. A maximum length of 15 feet of 18 awg two conductor wire is to be used for wall switch. Note switches must be suitable for Millivolt operation. The optional wall switch and remote receiver must be mounted outside the firebox.

**WARNING**

Keep wiring away from heat source and hot surfaces.

### CHECKING SYSTEM OPERATION

The Millivolt system and individual components may be checked with a Millivolt meter having a 0-1000MV range. Conduct each check shown in chart below by connection meter test leads to terminals as indicated.

CHECK TEST	TO TEST	CONNECT METER LEADS TO TERMINALS	METER READING SHOULD BE
A	COMPLETE SYSTEM	TH & THTP	MIN 100 MV
B	THERMOPILE OUTPUT	TP & THTP	MIN 325 MV

#### A. COMPLETE MILLIVOLT SYSTEM CHECK

("A" READING - CONTACTS CLOSED - CONTROL KNOB "ON" - MAIN BURNER SHOULD BE COME ON)

- If the reading is more than 100 Millivolts and the automatic valve still does not come on — replace the control.
- If the closed circuit reading ("A" reading) is less than 100 Millivolts, determine cause for low reading — proceed as follows:

#### B. THERMOPILE OUTPUT READING CHECK

("B" READING - CONTACTS OPEN - MAIN BURNER OFF)

- 325 Millivolts minimum. If the minimum Millivolt reading is not obtainable, readjust pilot for maximum Millivolt output. If Millivolt reading is still below minimum specified, replace thermopile.

### NOTICE

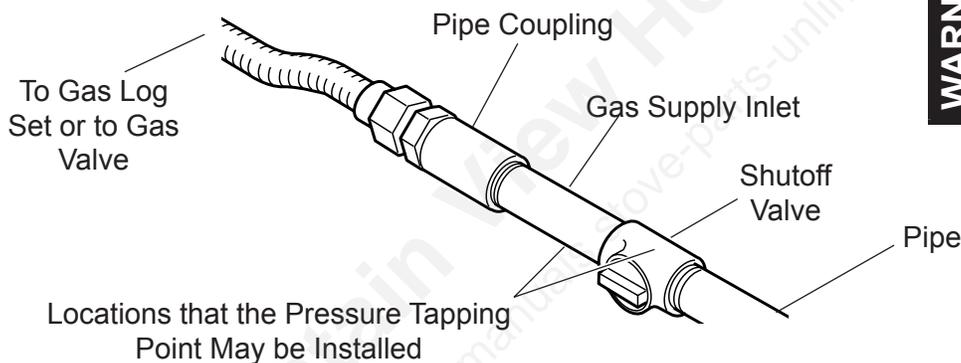
**NOTICE:** A qualified gas appliance installer must connect the appliance to the gas supply. Consult all local codes before installation.

### CAUTION

Use new black iron pipe, steel pipe, copper tubing, or internally tinned copper tubing. Copper or internally tinned copper tubing can only be used according to the National Fuel Gas Code, section 2.6.3, providing gas meets sulfide limits, and where permitted by local codes. Gas piping system must be sized to provide minimum inlet pressure at the maximum flow rate (BTU/Hr). Undue pressure loss will occur if the pipe is too small. A manual shutoff valve must be installed upstream of the appliance. Union tee and plugged 1/8" NPT pressure tapping point should be installed upstream of the appliance. See *Figure 16*.

### WARNING

Connecting directly to an unregulated propane/LPG tank can cause an explosion.



**Figure 16 - Gas Connection**

**IMPORTANT:** Hold appliance firmly with a wrench to prevent movement when connecting to inlet piping.

**Always use an external regulator for all propane/LPG gas logs only,** to reduce the supply tank pressure to a maximum of 13" w.c.

---

## LOG PLACEMENT

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### FILLING THE BURNER PAN

Fill the burner pan with vermiculite to the bottom of the rear log and sloped to the front edge of the burner pan. Excess vermiculite can spill forward or to the side of the burner pan. Do not overfill the propane model. Do not cover the pilot (if SPK or MVVK is installed) with vermiculite or rock wool (embers).

### PLACEMENT OF GLOWING EMBERS (ROCK WOOL)

The Wildfire flame appearance can vary due to differences in draft and fireplace configurations and ember placement. After installing rear (#1) and front logs (#2 and #3), cover the entire top surface of the vermiculite in the burner pan with the rock wool supplied with unit. Tear the rock wool into pieces approximately 1/2" in size (roughly the size of a nickel) and cover the burner evenly. Do not use more rock wool than the amount supplied with the unit. To enhance the appearance of the Wildfire flame, it is recommended to form a mound of rock wool in the center of the burner, 2" to 3" high, visible through the two front logs.

### PLACEMENT OF DECORATIVE VOLCANIC ROCK

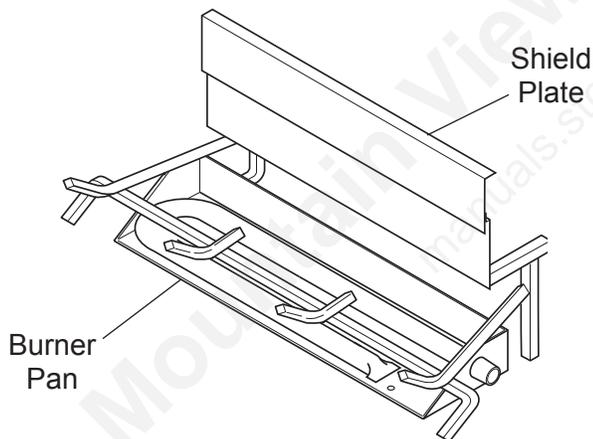
Sprinkle volcanic rock in front of front glowing embers and to both sides.

**DO NOT SPRINKLE ON BURNERS, EMBER BED, PILOT OR LOGS.**

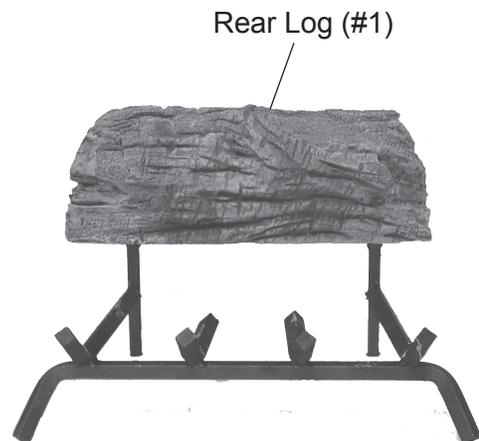
**IMPORTANT: Do not handle logs with your bare hands! Always wear gloves to prevent skin irritation from ceramic fibers. After handling logs, wash your hands gently with soap and water to remove any traces of fibers.**

### VWF18 MASSIVE OAK LOGS

1. Slide shield plate down back of burner pan. *See Figure 17.*
2. Center rear log #1 on grate bars and flush with rear of the grate. *See Figure 18.*



**Figure 17 - Sliding Shield Plate Down Back of Burner Pan**



**Figure 18 - Centering Rear Log (#1) on Grate Bars**

*Continued*

3. Place front left log #2 on the front of the grate and to the left. See Figure 19.
4. Place front right log #3 on the front of the grate and to the right. See Figure 20.

**NOTE: Allow 2" between the back log and the two front logs.**

5. Install left side middle log #4 as shown. See Figure 21.
6. Install right side middle log (#5). See Figure 22.
7. Install right top log #5 as shown. See Figure 23.

Front Left Log (#2)

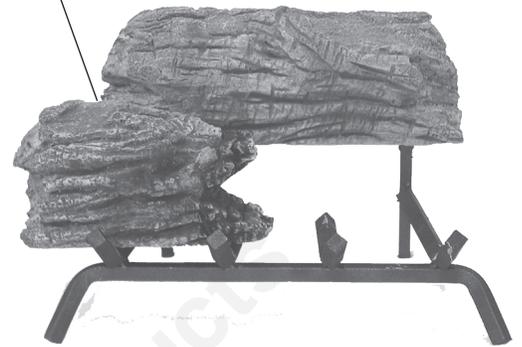


Figure 19 - Placing Front Left Log (#2) on Grate

Front Right Log (#3)



Figure 20 - Placing Front Right Log (#3)

Left Side Middle Log (#4)

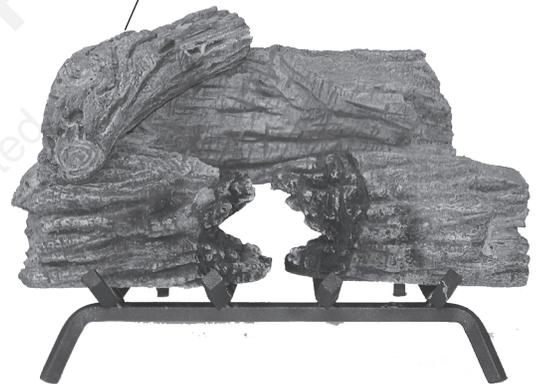


Figure 21 - Placing Left Middle Log (#4)

Right Side Middle Log (#5)



Figure 22 - Installing Right Side Middle Log (#5) and Left Top Log (#7)

Right Top Log (#6)



Figure 23 - Installing Right Top Log (#6)

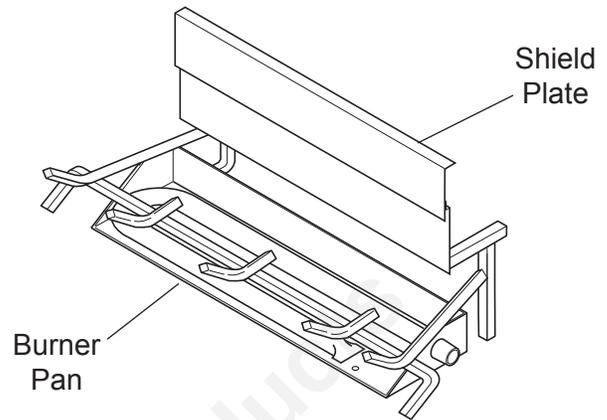
# LOG PLACEMENT

## VWF24 MASSIVE OAK LOGS

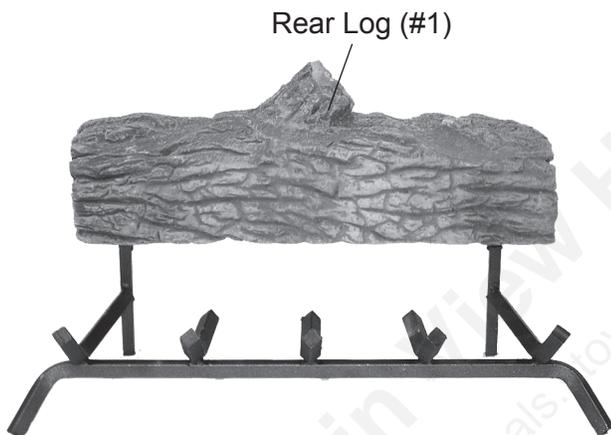
1. Slide shield plate down back of burner pan. See Figure 24.
2. Center rear log #1 on grate bars and flush with rear of the grate. See Figure 25.
3. Place front left log #2 on the front of the grate and to the left. See Figure 26.
4. Place front right log #3 on the front of the grate and to the right. See Figure 27.

**NOTE: Allow 2" between the back log and the two front logs.**

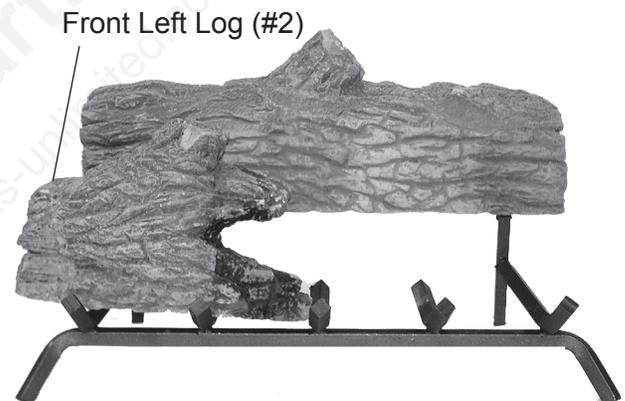
5. Install left side middle log #4 as shown. See Figure 28.



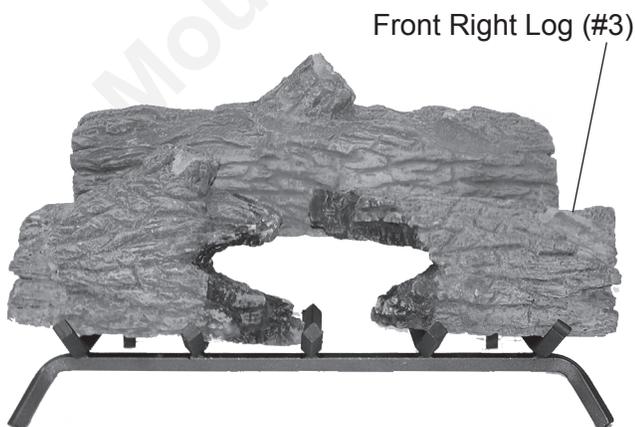
**Figure 24 - Sliding Shield Plate Down Back of Burner Pan**



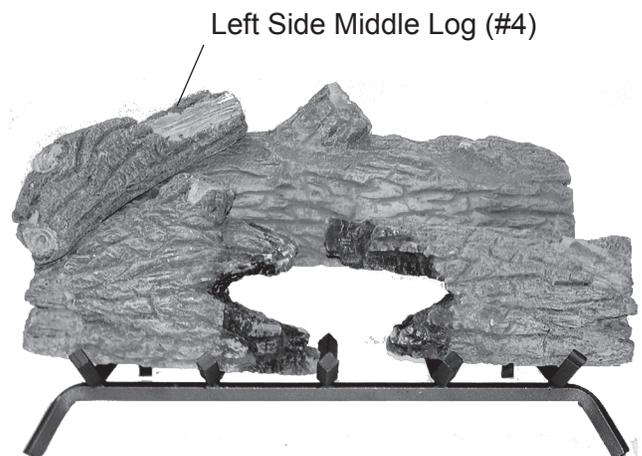
**Figure 25 - Centering Rear Log (#1) on Grate Bars**



**Figure 26 - Placing Front Left Log (#2) on Grate**



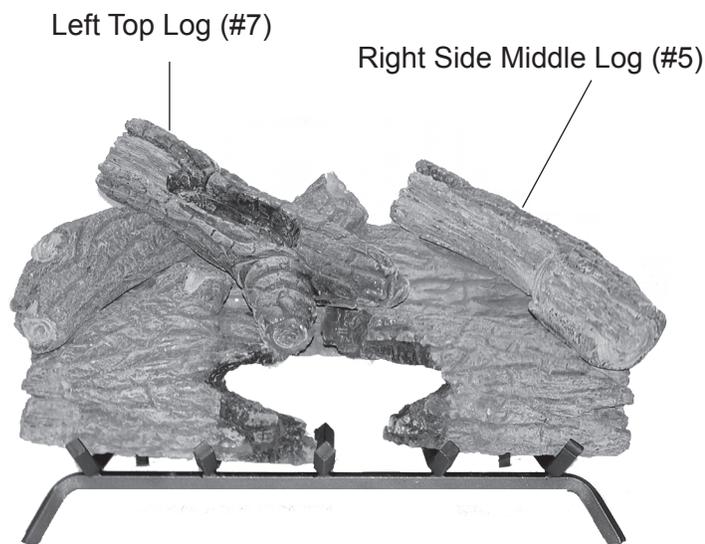
**Figure 27 - Placing Front Right Log (#3)**



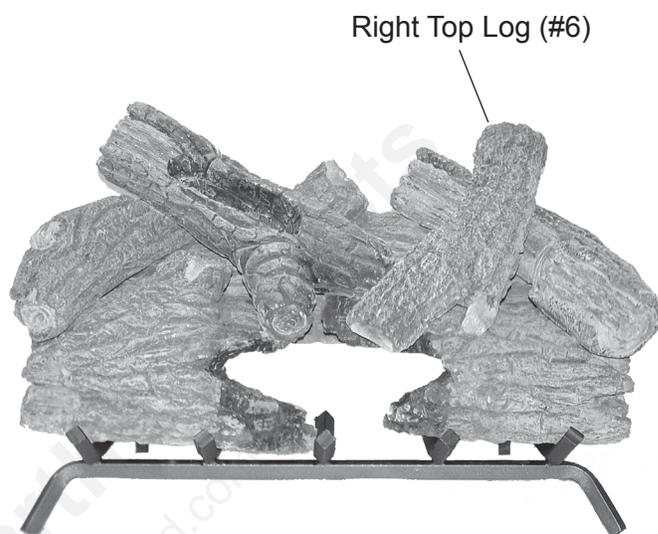
**Figure 28 - Placing Left Middle Log (#4)**

*Continued*

6. Install right side middle log #5 as shown. *See Figure 29.*
7. Install left top log #7 as shown. *See Figure 29.*
8. Install right top log #6 as shown. *See Figure 30.*



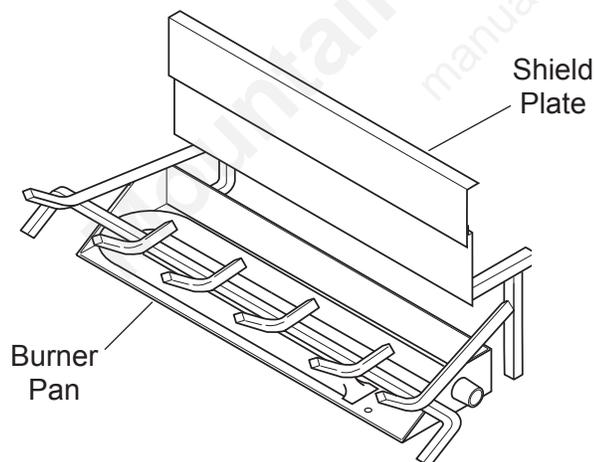
**Figure 29 - Installing Right Side Middle Log (#5) and Left Top Log (#29)**



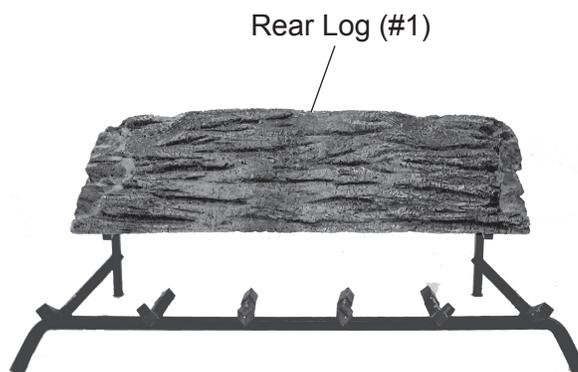
**Figure 30 - Installing Right Top Log (#30)**

### VWF30 MASSIVE OAK LOGS

1. Slide shield plate down back of burner pan. *See Figure 31.*
2. Center rear log #1 on grate bars and flush with rear of the grate. *See Figure 32.*



**Figure 31 - Sliding Shield Plate Down Back of Burner Pan**



**Figure 32 - Centering Rear Log (#1) on Grate Bars**

*Continued*

## LOG PLACEMENT

### VWF30 MASSIVE OAK LOGS (continued)

- Place front left log #2 on the front of the grate and to the left. See Figure 33.
- Place front right log #3 on the front of the grate and to the right. See Figure 34.

**NOTE: Allow 2" between the back log and the two front logs.**

- Install left middle log #4 as shown. See Figure 35.
- Install right middle log #5 as shown. See Figure 36.
- Install right top log #6 as shown. See Figure 37.
- Install left top log #7 as shown. See Figure 38.
- Install top crossover log #8 as shown. See Figure 39.

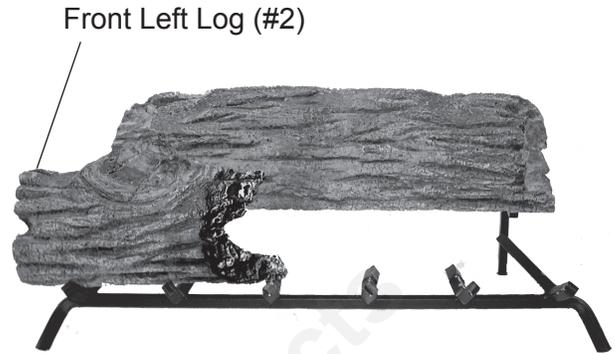


Figure 33 - Placing Front Left Log (#2) on Grate

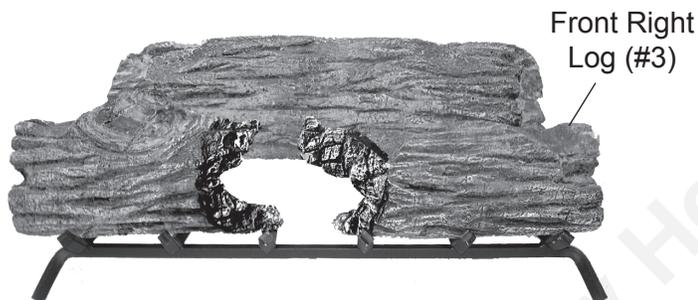


Figure 34 - Placing Front Right Log (#3)

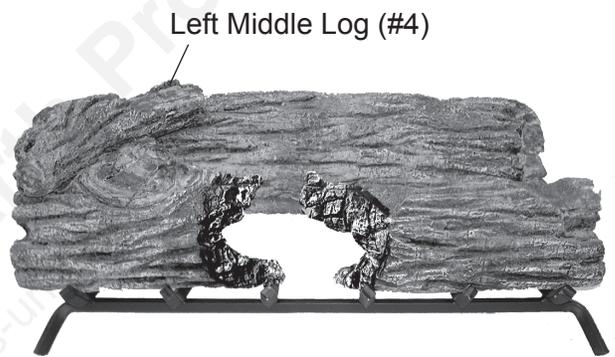


Figure 35 - Placing Left Middle Log (#4)

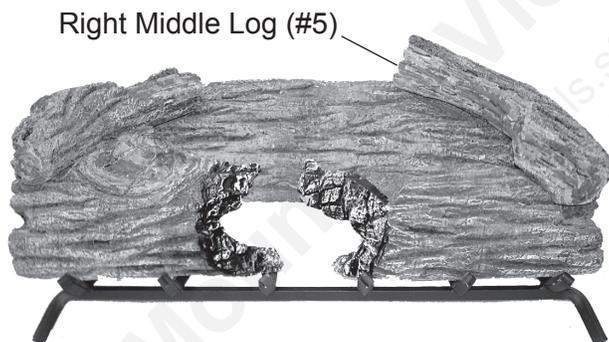


Figure 36 - Installing Right Middle Log (#5)

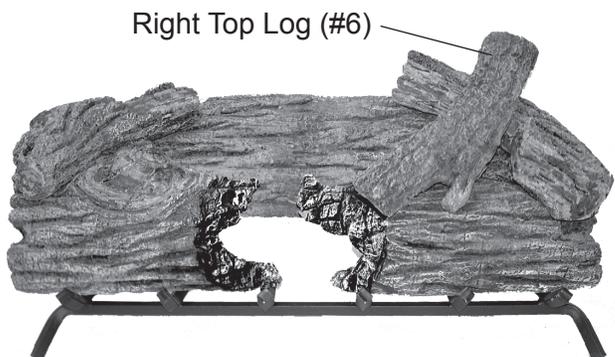


Figure 37 - Installing Right Top Log (#6)

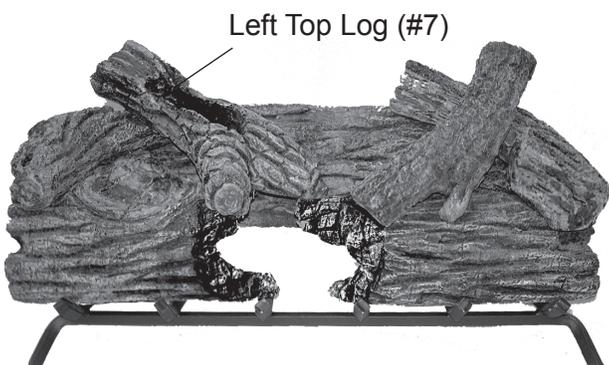


Figure 38 - Installing Left Top Log (#7)

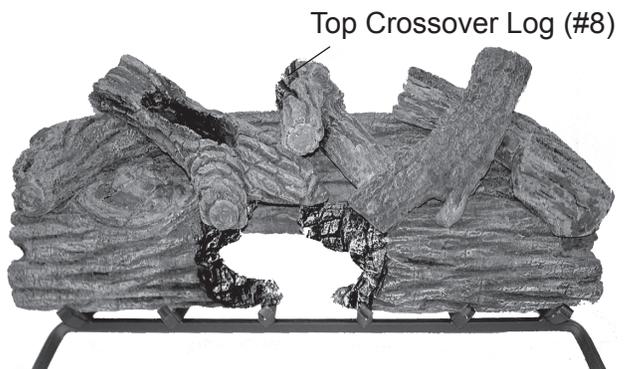


Figure 39 - Installing Top Crossover Log (#8)

## VWF36 MASSIVE OAK LOGS

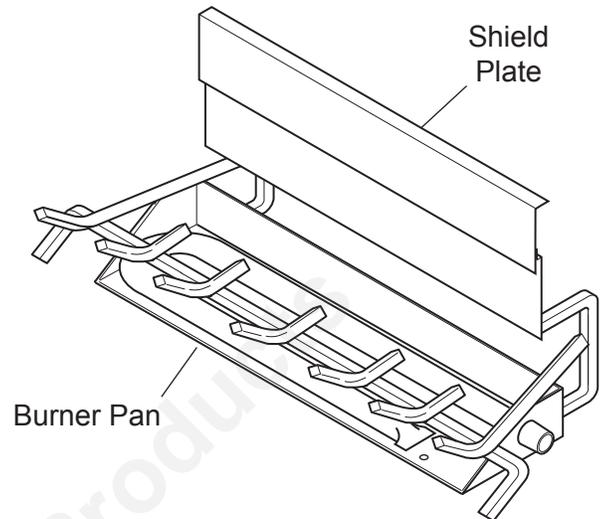
1. Slide shield plate down back of burner pan. See Figure 40.
2. Center rear log #1 on grate bars and flush with rear of the grate. See Figure 41.
3. Place front left log #2 in front of the plate and to the left. See Figure 42.

**NOTE: Allow 2" between the back log and the front left log.**

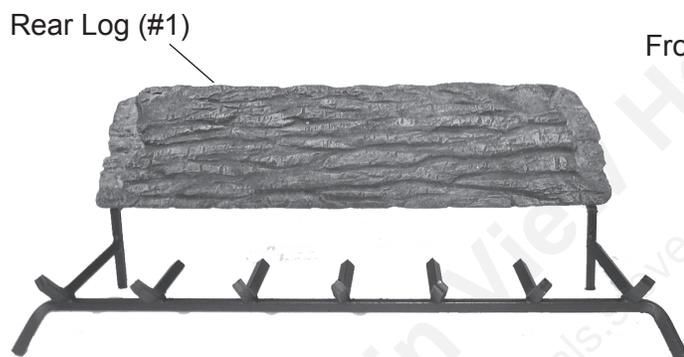
4. Place center front log #3 on middle grate prong. See Figure 43.

5. Place front right log #4 in front of the plate and to the right. See Figure 44.

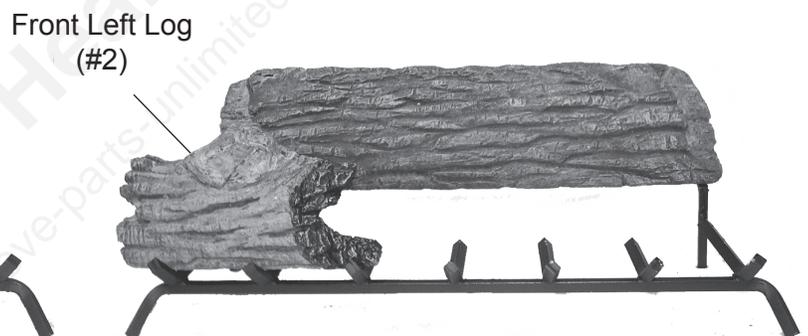
**NOTE: Allow 2" between the back log and the right front log.**



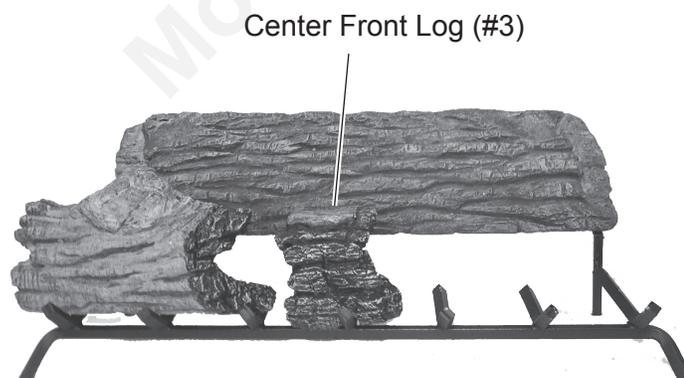
**Figure 40 - Sliding Shield Plate Down Back of Burner Pan**



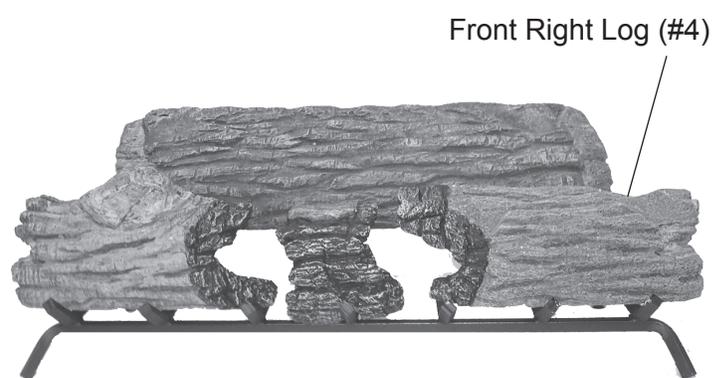
**Figure 41 - Centering Rear Log (#1)**



**Figure 42 - Placing Front Left Log (#2)**



**Figure 43 - Placing Center Front Log (#3)**



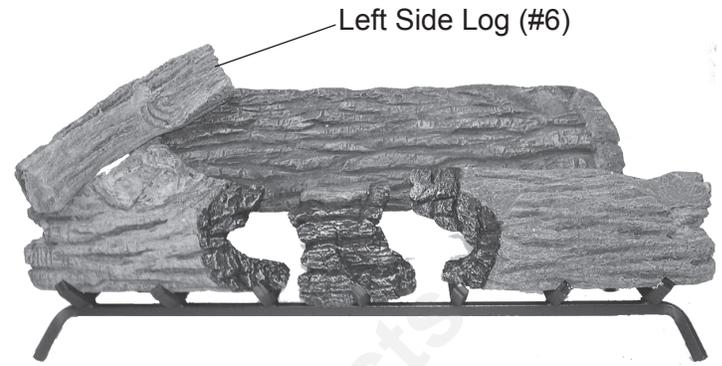
**Figure 44 - Placing Right Front Log (#4)**

*Continued*

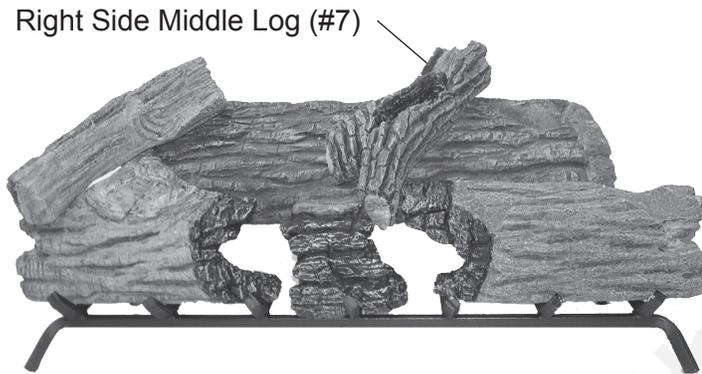
# LOG PLACEMENT

## VWF36 MASSIVE OAK LOGS (continued)

6. Install left side log #6. See Figure 45.
7. Install right side middle log #7. See Figure 46.
8. Install right side log #10. See Figure 47.
9. Install top left middle log #8. See Figure 48.
10. Install top left log #9. See Figure 49.
11. Install top right log #11. See Figure 50.
12. Install top middle log #5. See Figure 51.



**Figure 45 - Installing Left Side Log (#6)**



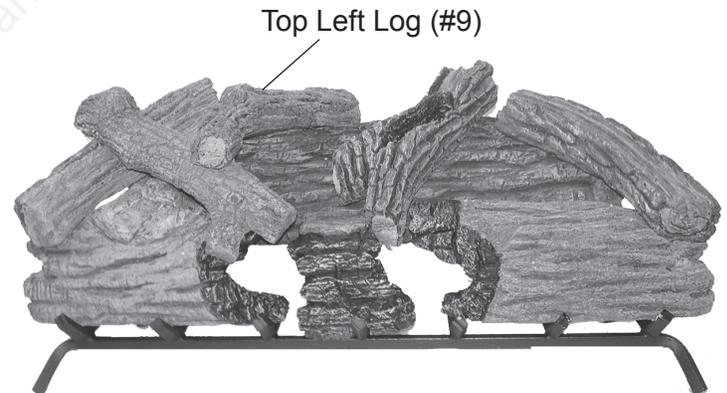
**Figure 46 - Installing Right Side Middle Log (#7)**



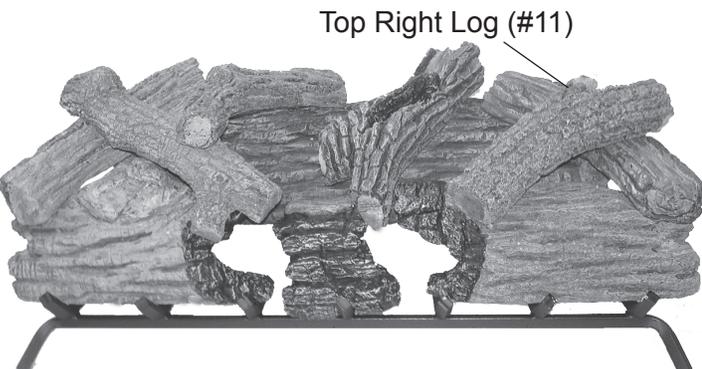
**Figure 47 - Installing Right Side Log (#10)**



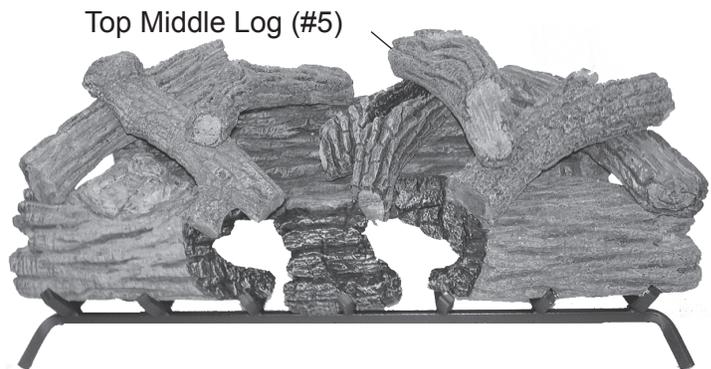
**Figure 48 - Installing Top Left Middle Log (#8)**



**Figure 49 - Installing Top Left Log (#9)**



**Figure 50 - Installing Top Right Log (#11)**

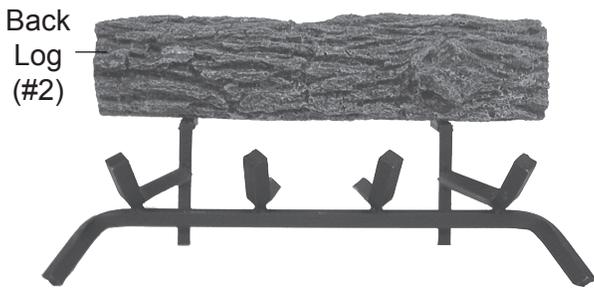


**Figure 51 - Installing Top Middle Log (#5)**

## VWF18 AMERICAN OAK LOGS

1. Place Back Log #2 on grate bars on back of grate. See Figure 52.
2. Place Front Log #1 on front of grate. See Figure 53.
3. Position Right/Left Middle Log #4 on top right of Log #1 and Log #2. See Figure 54.
4. Place Right/Left Middle Log #4 on top left of Log #1 and Log #2. See Figure 55.
5. Rest Top Right/Left Log #7 on Log #4 and Log #1. See Figure 56.
6. Rest Top Right/Left Log #7 on Log #4 and Log #1. See Figure 57.

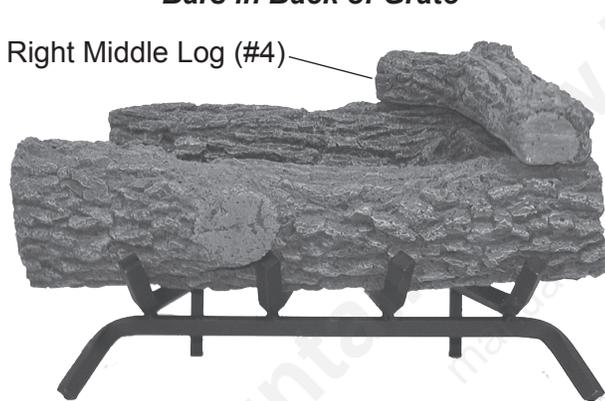
**NOTE: Each log has an identifying number embossed on bottom surface.**



**Figure 52 - Placing Back Log (#2) on Grate Bars in Back of Grate**



**Figure 53 - Placing Front Log (#1) on Front of Grate**



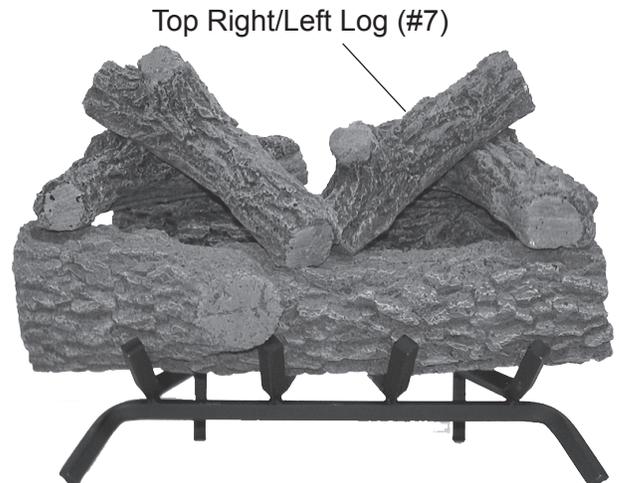
**Figure 54 - Positioning Right/Left Middle Log (#4)**



**Figure 55 - Positioning Right/Left Middle Log (#4)**



**Figure 56 - Positioning Top Right/Left Log (#7)**



**Figure 57 - Positioning Top Right/Left Log (#7)**

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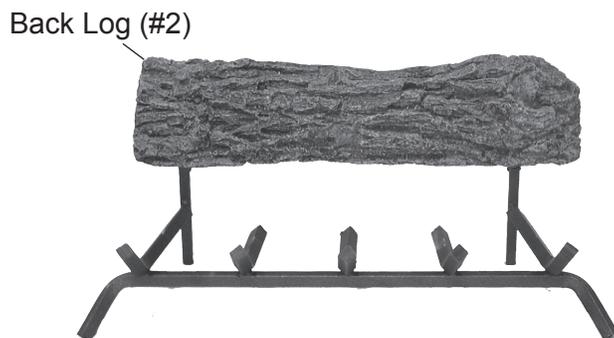
## LOG PLACEMENT

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### VWF24 AMERICAN OAK LOGS

1. Place Back Log #2 on grate bars on back of grate. *See Figure 58.*
2. Place Front Log #1 on front of grate. *See Figure 59.*
3. Position Right Log #3 on top right of Log #1 and Log #2. *See Figure 60.*
4. Place Right/Left Log #4 on top left of Log #1 and Log #2. *See Figure 61.*
5. Rest Right/Left Log #4 on Log #3 and Log #1. *See Figure 62.*
6. Rest Top Left Log #6 on Log #4 and Log #1. *See Figure 63.*

**NOTE: Each log has an identifying number embossed on bottom surface.**



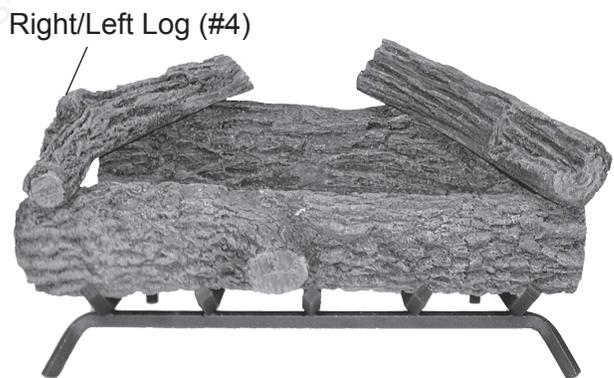
**Figure 58 - Placing Back Log (#2) on Grate Bars in Back of Grate**



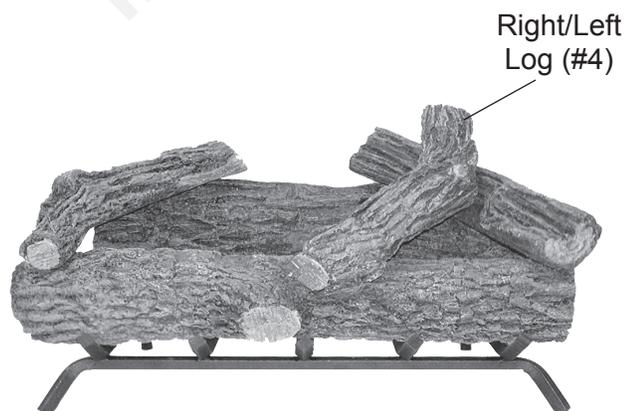
**Figure 59 - Placing Front Log (#1) on Front of Grate**



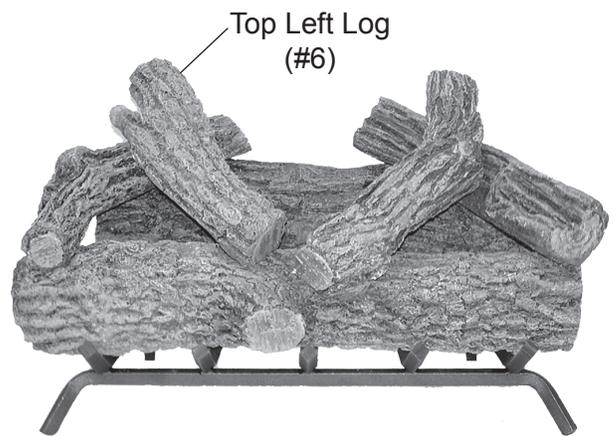
**Figure 60 - Positioning Right Log (#3)**



**Figure 61 - Positioning Right/Left Log (#4)**



**Figure 62 - Positioning Right/Left Log (#4)**

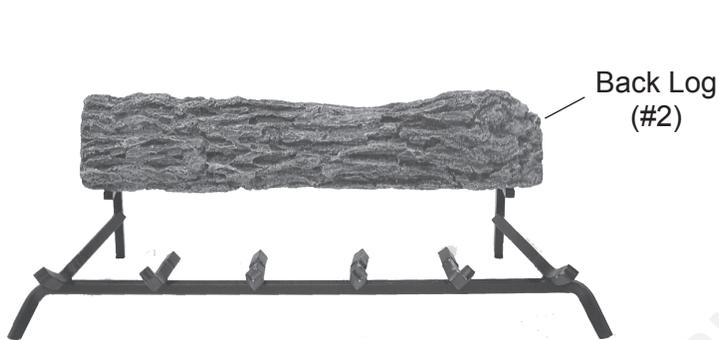


**Figure 63 - Positioning Top Left Log (#6)**

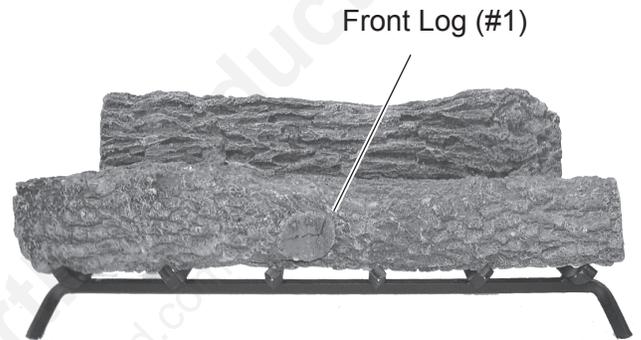
**VWF30 AMERICAN OAK LOGS**

1. Place Back Log #2 on grate bars on back of grate. *See Figure 64.*
2. Place Front Log #1 on front of grate. *See Figure 65.*
3. Position Right/Left Middle Log #4 on top right of Log #1 and Log #2. *See Figure 66.*
4. Place Right/Left Middle Log #4 on top left of Log #1 and Log #2. *See Figure 67.*
5. Rest Top Right/Left Log #5 on Log #4 and Log #1. *See Figure 68.*
6. Rest Top Right/Left Log #5 on Log 4 and Log #1. *See Figure 69.*

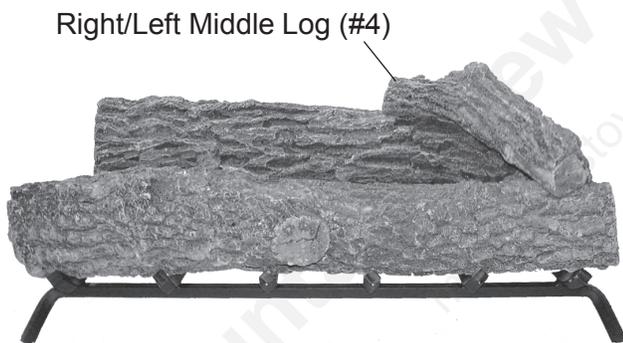
**NOTE: Each log has an identifying number embossed on bottom surface.**



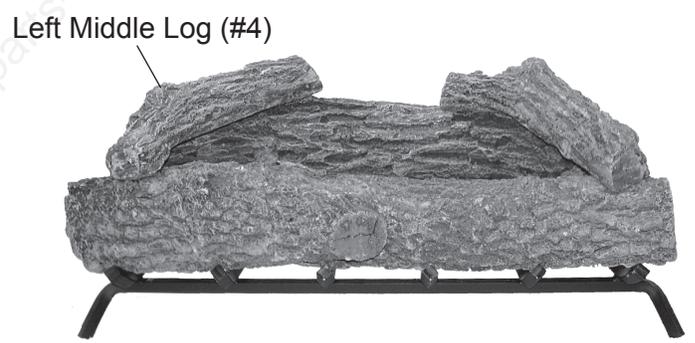
**Figure 64 - Placing Back Log (#2) on Grate Bars on Back of Grate.**



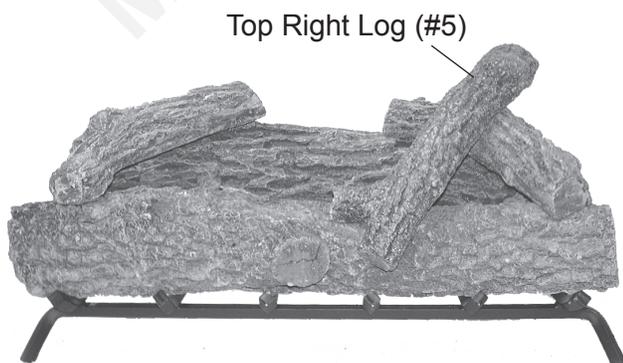
**Figure 65 - Placing Front Log (#2) on Front Grate**



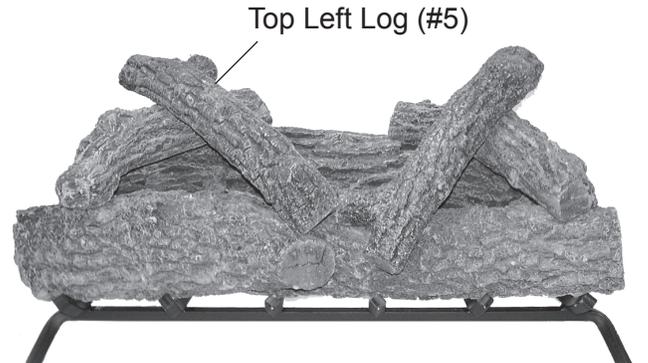
**Figure 66 - Positioning Right/Left Middle Log (#4)**



**Figure 67 - Positioning Left Middle Log (#4)**



**Figure 68 - Positioning Top Right/Left Log (#5)**



**Figure 69 - Positioning Top Right/Left Log (#5)**

*Continued*

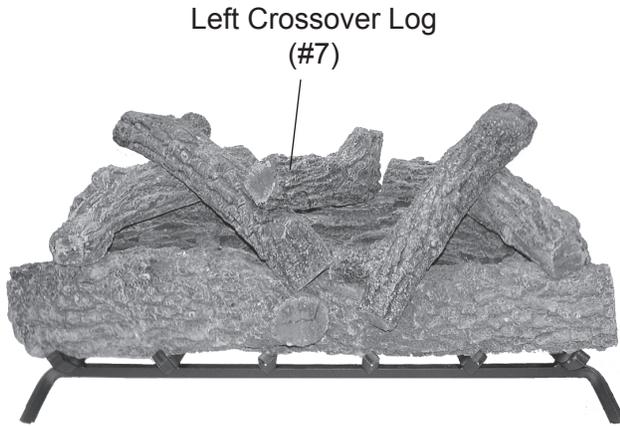
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## LOG PLACEMENT

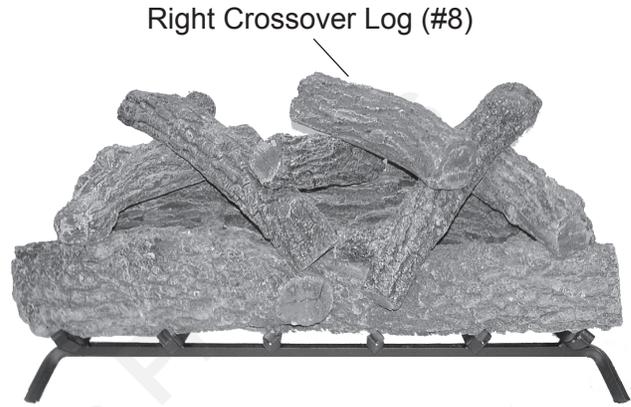
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### VWF30 AMERICAN OAK LOGS *(continued)*

7. Place Left Crossover Log #7 on Log #2 and Log #5. See Figure 70.
8. Place Right Crossover Log #8 on Log #3 and Log #7. See Figure 71.

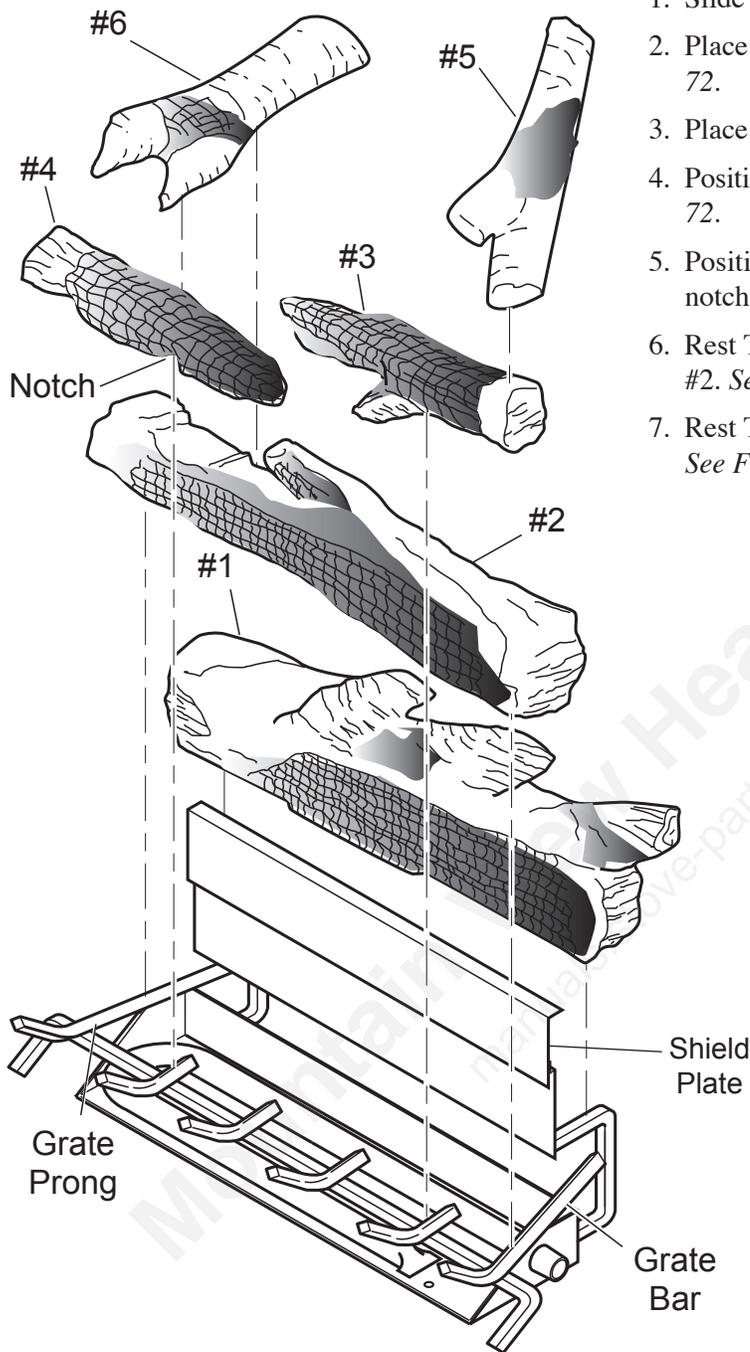


**Figure 70 - Placing Left Crossover Log (#7)**

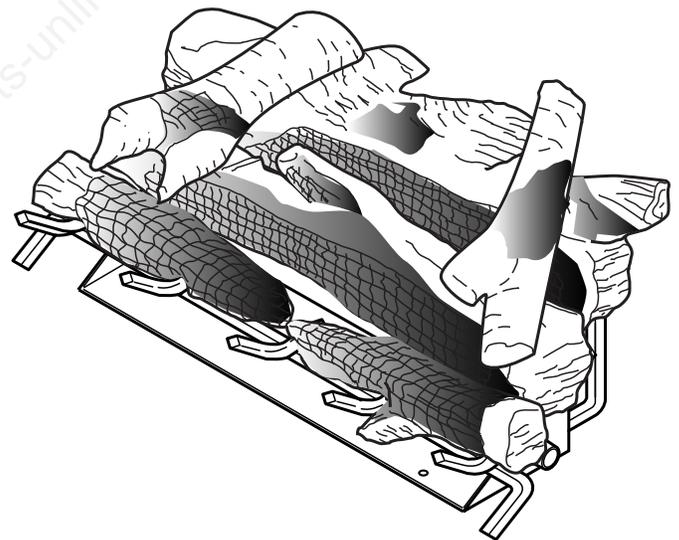


**Figure 71 - Placing Right Crossover Log (#8)**

## MODELS VWF24B (6 Logs)



1. Slide shield plate down back of burner pan. *See Figure 72.*
2. Place Back Log #1 on grate bars on back of grate. *See Figure 72.*
3. Place Middle Log #2 in front of Log #1. *See Figure 72.*
4. Position Right Front Log #3 on right front side of grate. *See Figure 72.*
5. Position Left Front Log #4 on left front side of grate. Make sure notch in bottom of log sits on grate prong. *See Figure 72.*
6. Rest Top Right Log #5 across top right sides of Log #1 and Log #2. *See Figure 72.*
7. Rest Top Left Log #6 across top left side of Log #1 and Log #2. *See Figure 72.*



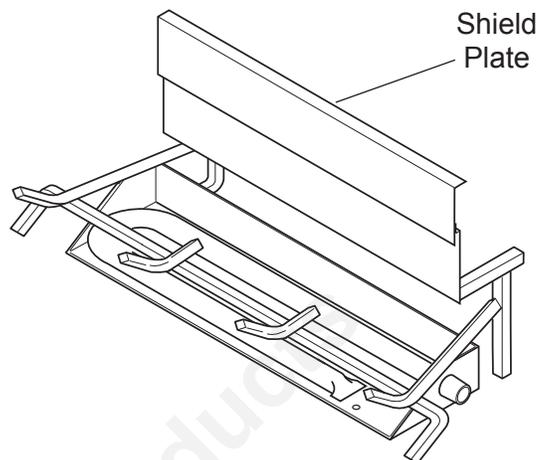
**Figure 73 - VWF24B (Birch) Log Placement**

**Figure 72 - VWF24B (Birch) Log Placement**

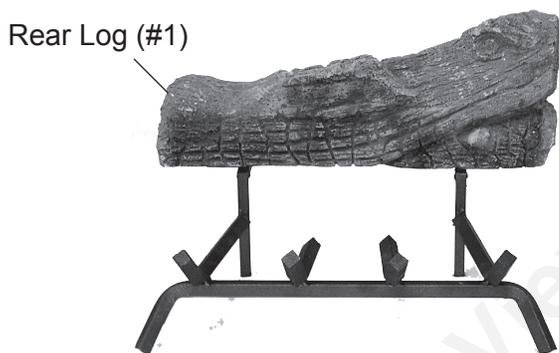
## LOG PLACEMENT

### MODELS VWF24/18 SPLIT RIVER OAK

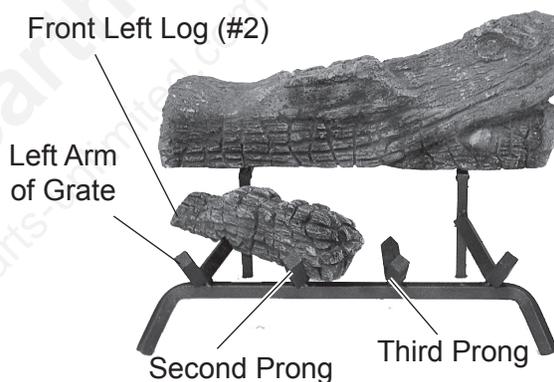
1. Slide shield plate down back of burner pan. *See Figure 74.*
2. Place Back Log #1 on back of grate. *See Figure 75.*
3. Place Front Left Log #2 in front of back log on left arm of grate. Rest end of bottom left log between second and third prong of grate. *See Figure 76.*
4. Place end of Bottom Right Log #3 on cutout of back log #1. Rest other end of right bottom log to the outside of right grate prong. *See Figure 77.*
6. Rest Bottom Left Log #5 on back log #1 and to the outside of the left grate prong. *See Figure 78.*



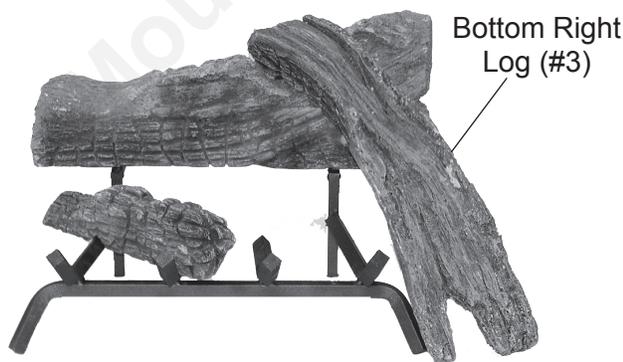
**Figure 74 - Sliding Shield Plate Down Back of Burner Pan**



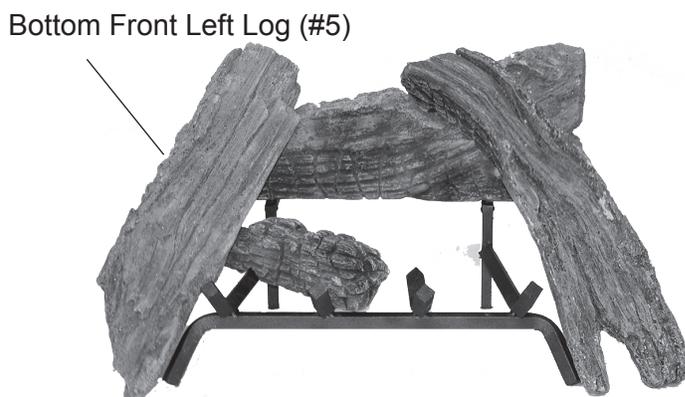
**Figure 75 - Placing Rear Log (#1) on Back of Grate**



**Figure 76 - Placing Front Left Log (#2) on Left Arm of Grate**



**Figure 77 - Placing Bottom Right (#3) Log on Grate**



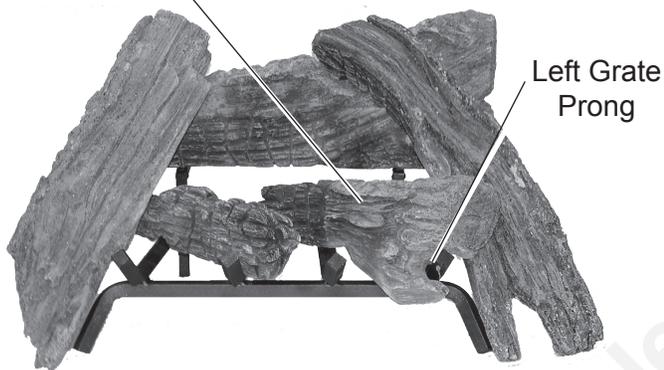
**Figure 78 - Installing Bottom Front Left Log (#5)**

*Continued*

**MODELS VWF24/18 SPLIT RIVER OAK (continued)**

5. Rest right end of Top Right Log #4 on bottom right log. See Figure 79.
7. Place end of Top Left Log #6 on bottom left log. Rest the other end between the first and second grate prongs. See Figure 80.
8. Rest Top Center Log #7 on bottom left log #2 and back log #1. See Figure 81.

Top Right Log (#4)

**Figure 79 - Resting Top Right Log (#4) on Bottom Left Log**

Top Left Log (#6)

**Figure 80 - Resting Top Left Log (#6) on Bottom Left Log and Back Log**

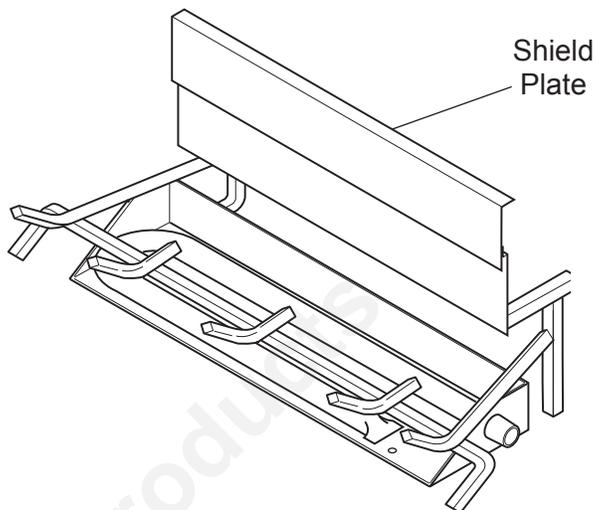
Top Center Log (#7)

**Figure 81 - Resting Center Top Log (#7) Bottom left Log and Back Log**

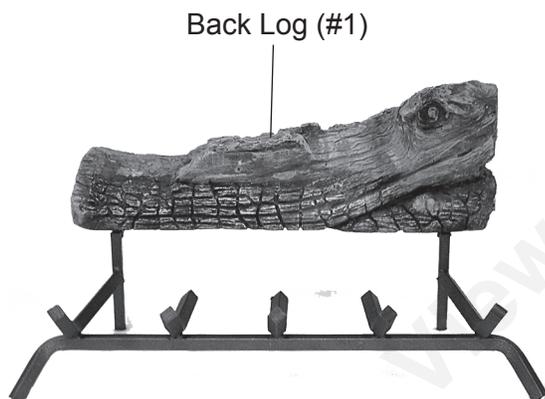
# LOG PLACEMENT

## MODELS VWF30/24 SPLIT RIVER OAK

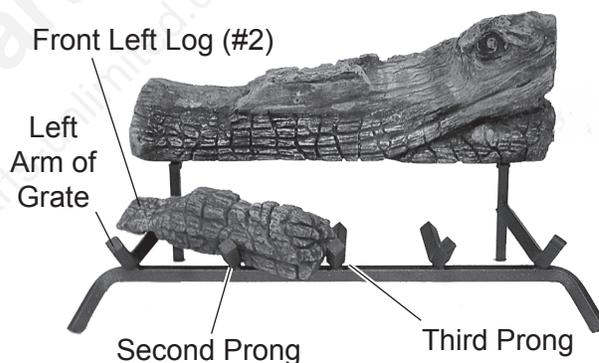
1. Slide shield plate down back of burner pan. *See Figure 82.*
2. Place Back Log #1 on back of grate. *See Figure 83.*
3. Place Front Left Log #2 in front of back log on left arm of grate. Rest end of bottom left log between second and third prong of grate. *See Figure 84.*
4. Place end of Bottom Right Log #3 on cutout of back log #1. Rest other end of right bottom log to the outside of right grate prong. *See Figure 85.*
5. Rest right end of Top Right Log #4 on bottom right log. *See Figure 86.*



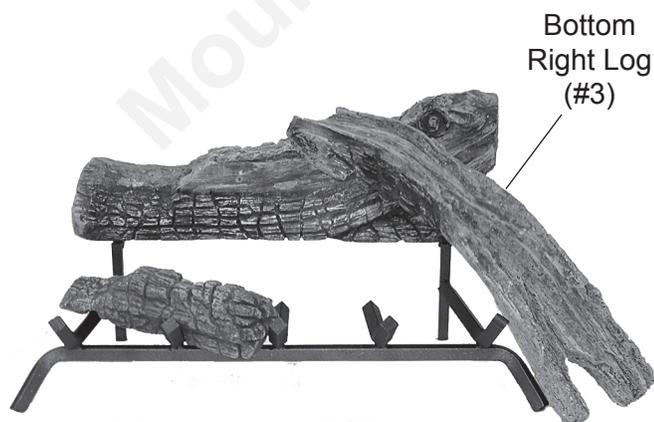
**Figure 82 - Sliding Shield Plate Down Back of Burner Pan**



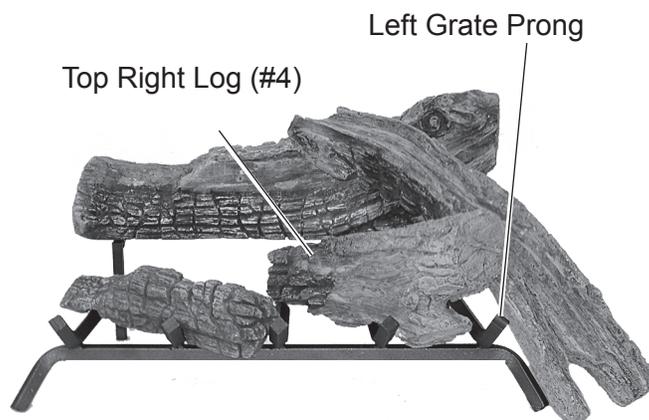
**Figure 83 - Placing Rear Log (#1) on Back of Grate**



**Figure 84 - Placing Front Left Log (#2) on Left Arm of Grate**



**Figure 85 - Placing Bottom Right (#3) Log on Grate**

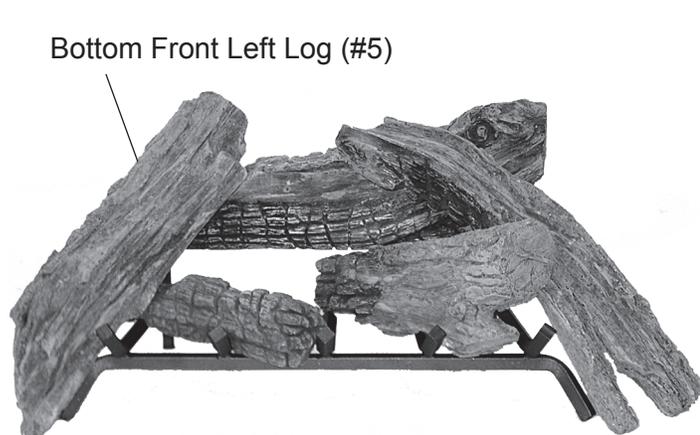


**Figure 86 - Resting Top Right Log (#4) on Bottom Left Log**

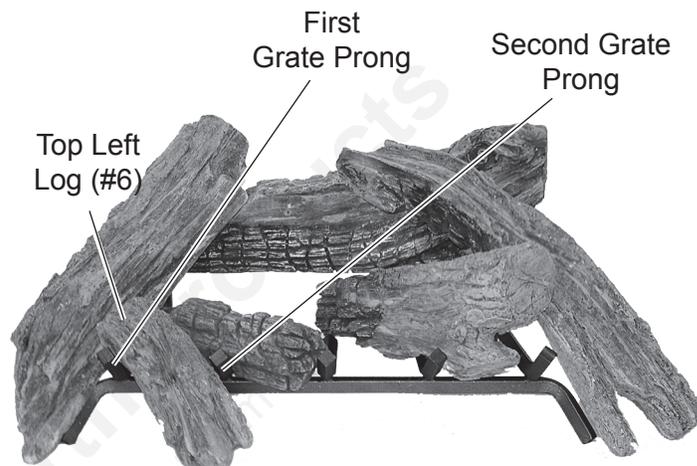
*Continued*

**MODELS VWF30/24 SPLIT RIVER OAK (continued)**

6. Rest Bottom Left Log #5 on back log #1 and to the outside of the left grate prong. See Figure 87.
7. Place end of Top Left Log #6 on bottom left log. Rest the other end between the first and second grate prongs. See Figure 88.
8. Rest Top Center Log #7 on bottom left log #2 and back log #1. See Figure 89.



**Figure 87 - Installing Bottom Front Left Log (#5)**



**Figure 88 - Resting Top Left Log (#6) on Bottom Left Log and Back Log**

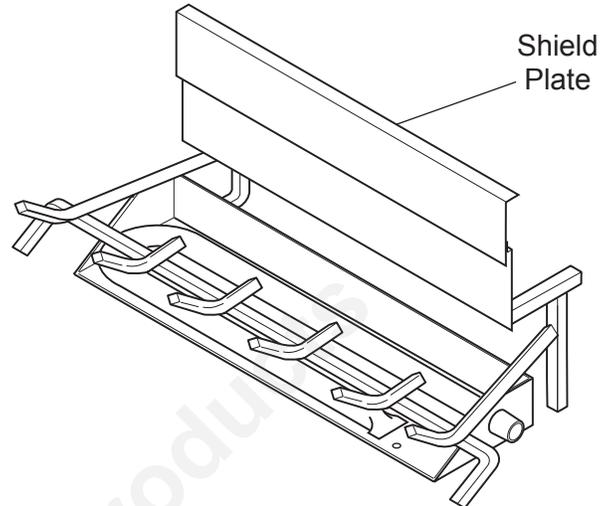


**Figure 89 - Resting Center Top Log (#7) Bottom left Log and Back Log**

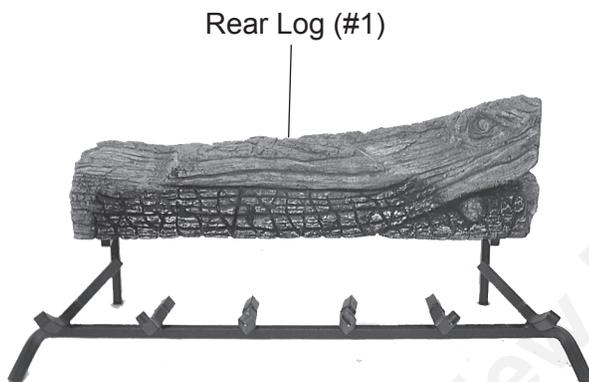
# LOG PLACEMENT

## MODELS VWF36/30 SPLIT RIVER OAK

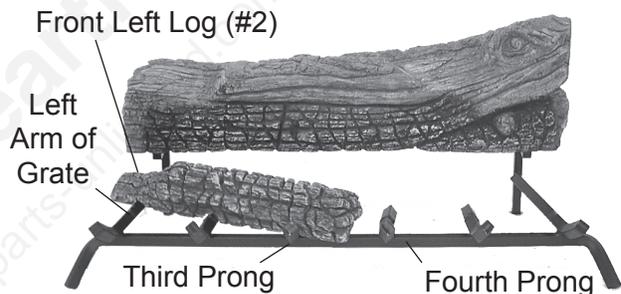
1. Slide shield plate down back of burner pan. *See Figure 90.*
2. Place Back Log #1 on back of grate. *See Figure 91.*
3. Place Front Left Log #2 in front of back log on left arm of grate. Rest end of bottom left log between third and fourth prong of grate. *See Figure 92.*
4. Place end of Bottom Right Log #3 on cutout of back log #1. Rest other end of right bottom log to the outside of right grate prong. *See Figure 93.*
5. Rest right end of Top Right Log #4 on bottom right log. *See Figure 94.*



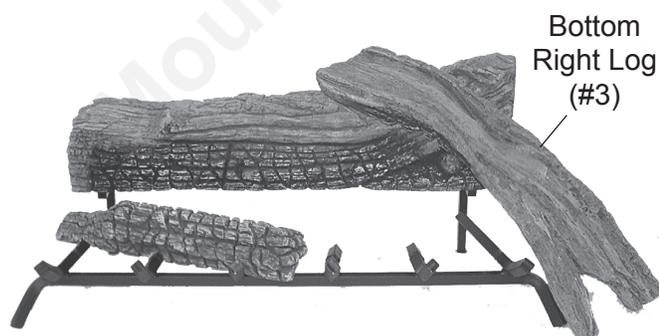
**Figure 90 - Sliding Shield Plate Down Back of Burner Pan**



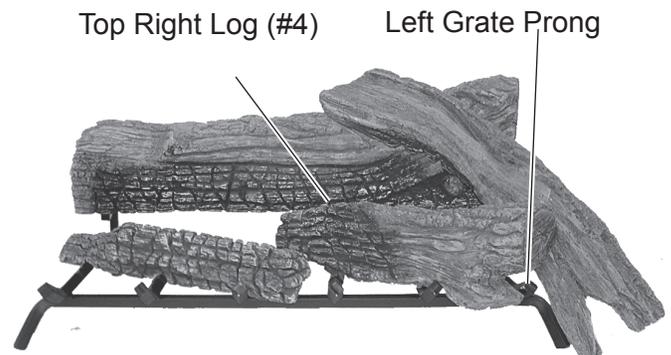
**Figure 91 - Placing Rear Log (#1) on Back of Grate**



**Figure 92 - Placing Front Left Log (#2) on Left Arm of Grate**



**Figure 93 - Placing Bottom Right (#3) Log on Grate**

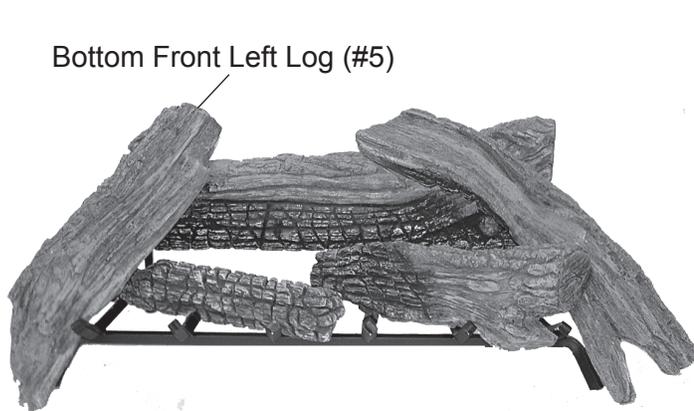


**Figure 94 - Resting Top Right Log (#4) on Bottom Left Log**

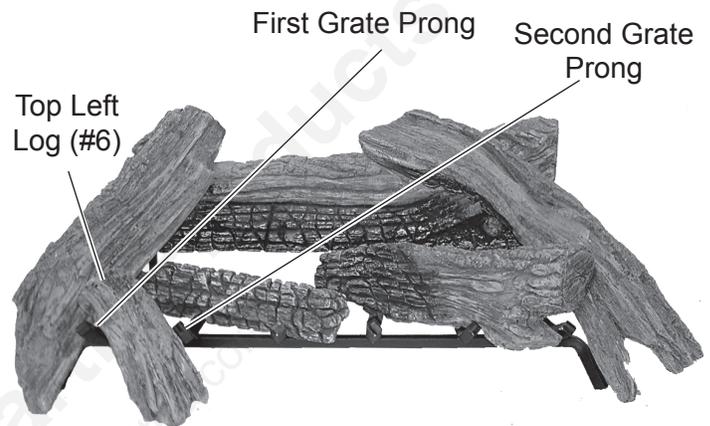
*Continued*

**MODELS VWF36/30 SPLIT RIVER OAK (continued)**

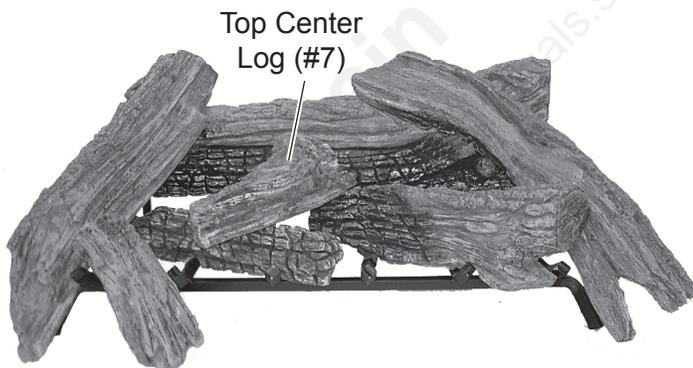
6. Rest Bottom Left Log #5 on back log #1 and to the outside of the left grate prong. See Figure 95.
7. Place end of Top Left Log #6 on bottom left log. Rest the other end between the first and second grate prongs. See Figure 96.
8. Rest Top Center Log #7 on bottom left log #2 and back log #1. See Figure 97.
9. Rest Right Front Log #8 on top right log #4 and front of burner pan. See Figure 98.



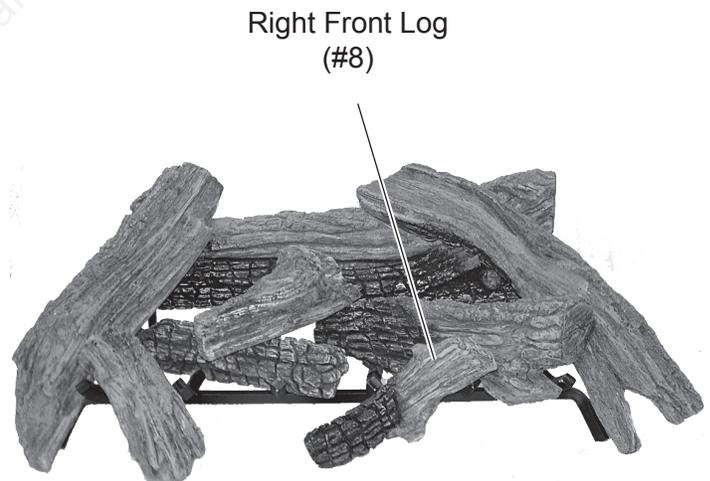
**Figure 95 - Installing Bottom Front Left Log (#5)**



**Figure 96 - Resting Top Left Log (#6) on Bottom Left Log and Back Log**



**Figure 97 - Resting Center Top Log (#7) Bottom left Log and Back Log**

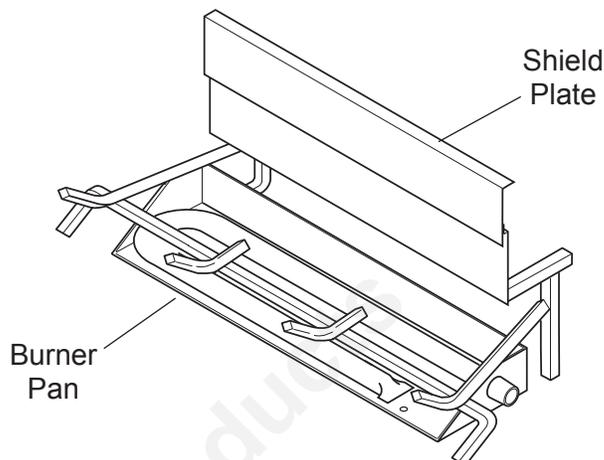


**Figure 98 - Resting Front Right Log (#8) on Top Right Log and Front of Burner Pan**

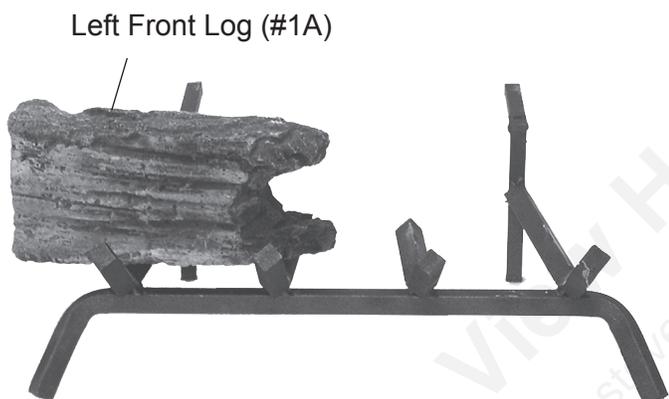
## LOG PLACEMENT

### MODELS VWF18 SPLIT PINE

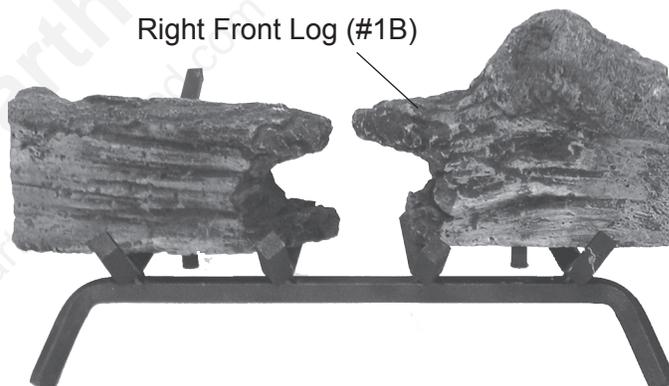
1. Slide shield plate down back of burner pan. See Figure 99.
2. Place Left Front Log #1A on front left of grate. See Figure 100.
3. Place Right Front Log #1B on front right of the grate. See Figure 101.
4. Place front end of Side Support Log #2 on top left of Log #1A. Rest other end of Log #2 on rear grate bar. See Figure 102.
5. Fit cutout in the bottom left of Rear Log #3 over the back end of log #1A. Rest right end of Log #3 on rear grate bar. See Figure 103.



**Figure 99 - Sliding Shield Plate Down Back of Burner Pan**



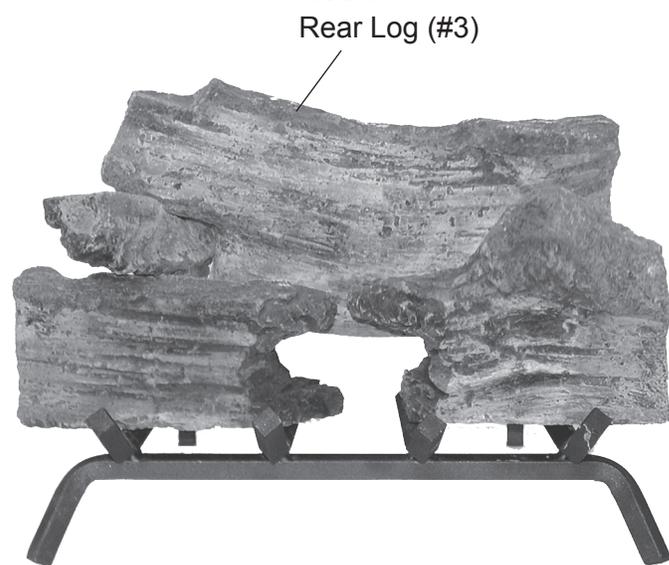
**Figure 100 - Placing Left Front Log #1A on Grate**



**Figure 101 - Placing Right Front Log (#1B) on Grate**



**Figure 102 - Placing Side Support Log (#2) on Top Left of Log #1A**

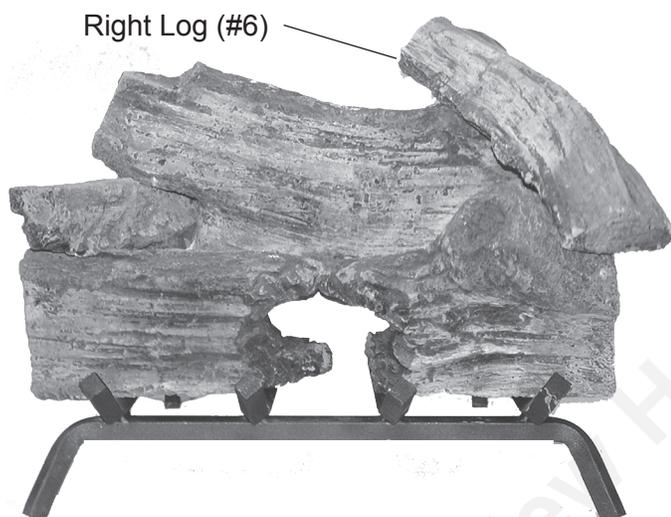
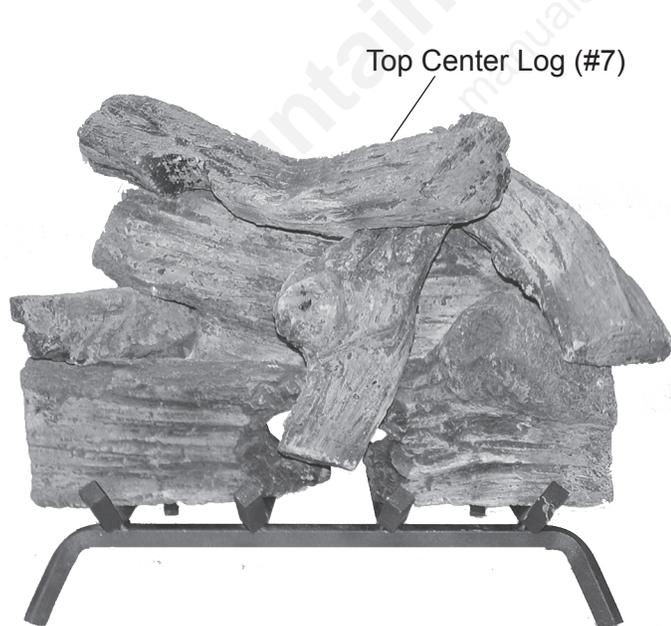


**Figure 103 - Installing Rear Log #3**

*Continued*

**MODELS VWF18 SPLIT PINE (continued)**

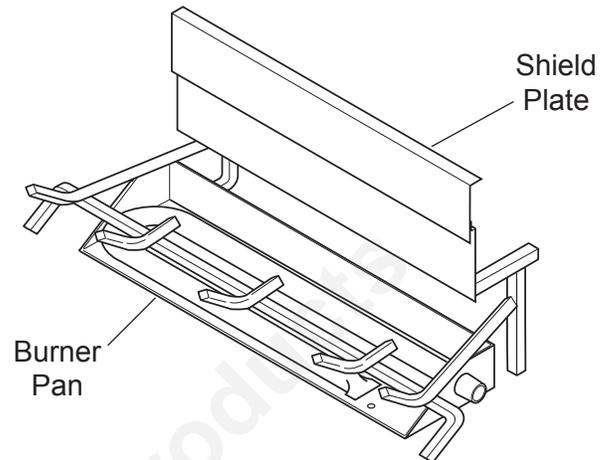
6. Rest front end of Right Log #6 on right top of Log #1B. The back end of Log #6 rests to right hump on Log #3. See Figure 104.
7. Place front of Right Middle Log #5 on top right of Log #4. Rest back end of Log #5 on top right of Log #3. See Figure 105.
8. Lay Top Center Log #7 across log #5 with front end resting on Log #1. See Figure 106.
9. Place front end of Top Left Log #8 on Log #7. Let back end of Log #8 rest on Log #6. See Figure 107.

**Figure 104 - Installing Right Log (#6)****Figure 105 - Installing Right Middle Log (#5)****Figure 106 - Installing Top Center Log (#7)****Figure 107 - Installing Top Left Log (#8)**

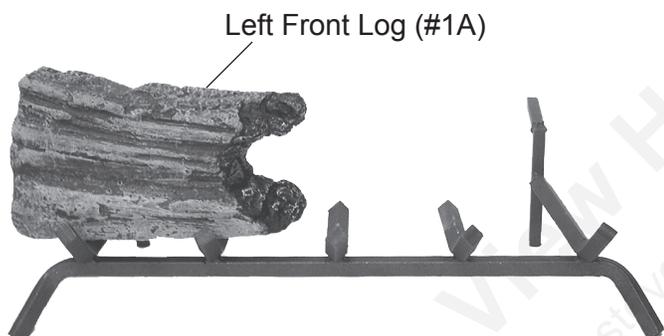
# LOG PLACEMENT

## MODELS VWF24 SPLIT PINE

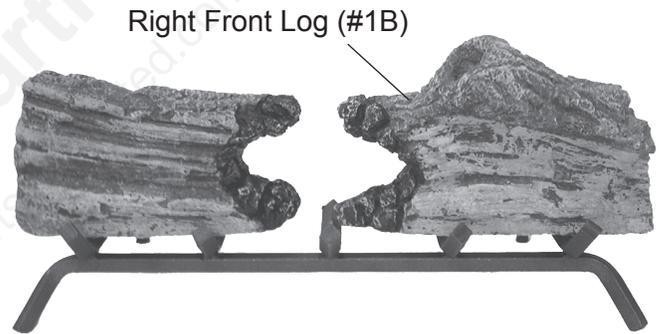
1. Slide shield plate down back of burner pan. See Figure 108.
2. Place Left Front Log #1A on front left of grate. See Figure 109.
3. Place Right Front Log #1B on front right of the grate. See Figure 110.
4. Place front end of Side Support Log #2 on top left of Log #1A. Rest other end of Log #2 on rear grate bar. See Figure 111.
5. Fit cutout in the bottom left of Rear Log #3 over the back end of Log #2. Rest right end of Log #3 on rear grate bar. See Figure 112.



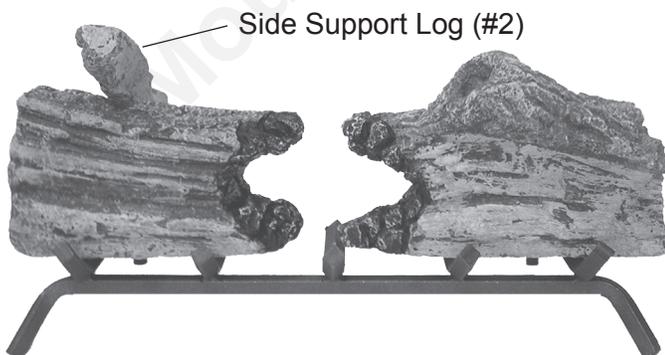
**Figure 108 - Sliding Shield Plate Down Back of Burner Pan**



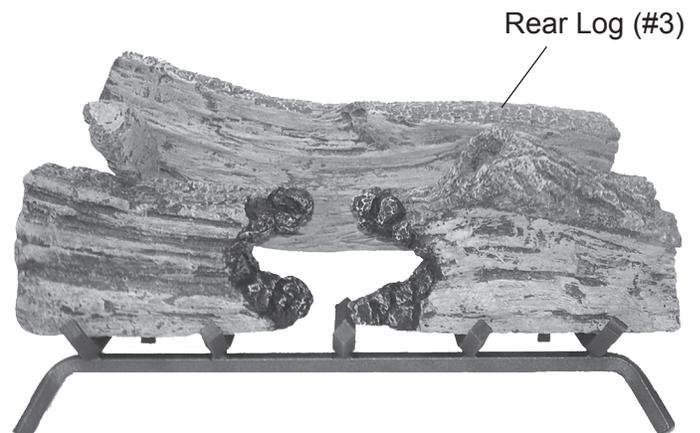
**Figure 109 - Placing Left Front Log #1A on grate**



**Figure 110 - Placing Right Front Log (#1B) on grate**



**Figure 111 - Placing Side Support Log (#2) on Top Left of Log #1A**



**Figure 112 - Installing Rear Log #3**

*Continued*

## MODELS VWF24 SPLIT PINE (continued)

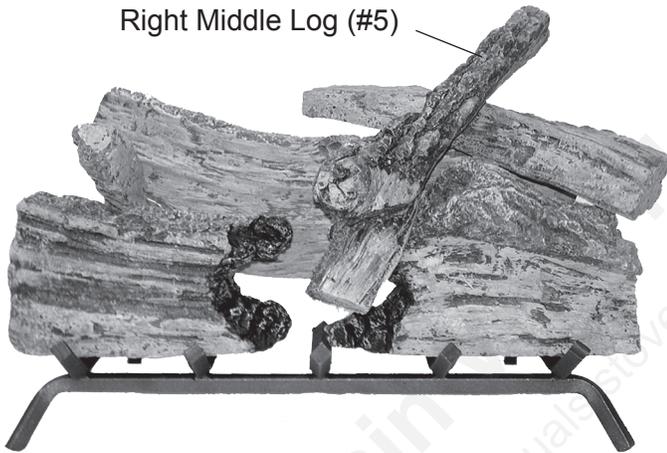
6. Rest front end of Right Log #4 on right top of Log #1B. The back end of Log #4 rests to right hump on Log #3. See Figure 113.
7. Place front of Right Middle Log #5 on top right of Log #1B. Rest back end of Log #5 on top right of Log #4. See Figure 114.
8. Rest front of Left Log #6 just left of the middle of Log #1A and back end of Log #6 just left of middle of Log #3. See Figure 115.
9. Lay Top Center Log #7 across log #3 with front end resting on Log #5. See Figure 116.
10. Place front end of Top Left Log #8 on Log #7. Let back end of Log #8 rest on Log #6. See Figure 117.

Right Log (#4)



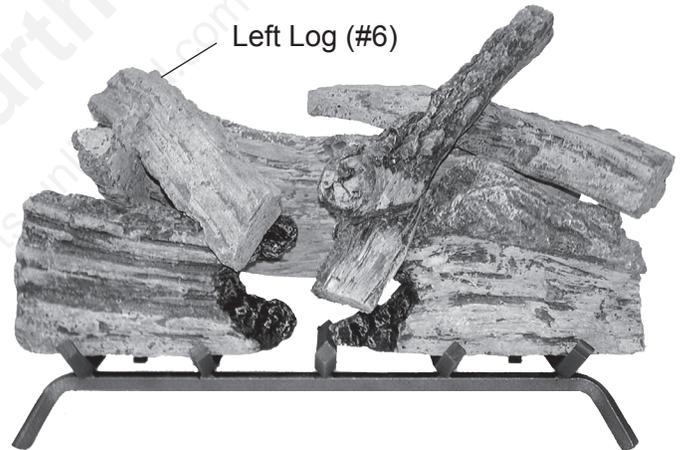
**Figure 113 - Installing Right Log (#4)**

Right Middle Log (#5)



**Figure 114 - Installing Right Middle Log (#5)**

Left Log (#6)



**Figure 115 - Installing Left Log (#6)**

Top Center Log (#7)



**Figure 116 - Installing Top Center Log (#7)**

Top Left Log (#8)

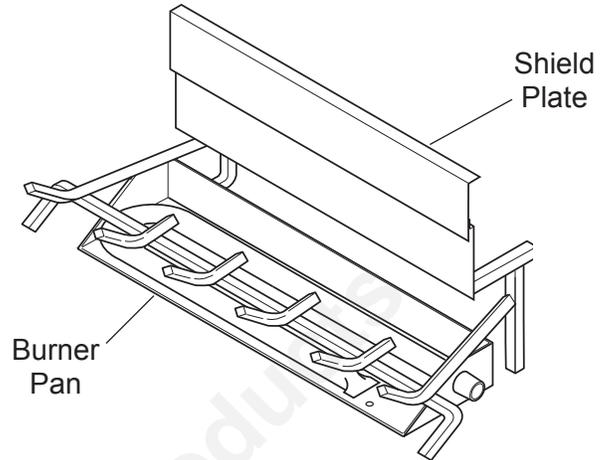


**Figure 117 - Installing Top Left Log (#8)**

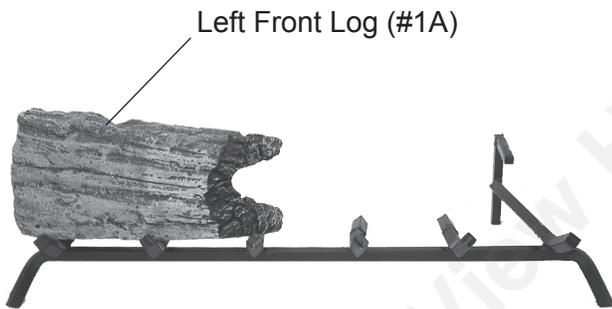
# LOG PLACEMENT

## MODELS VWF30 SPLIT PINE

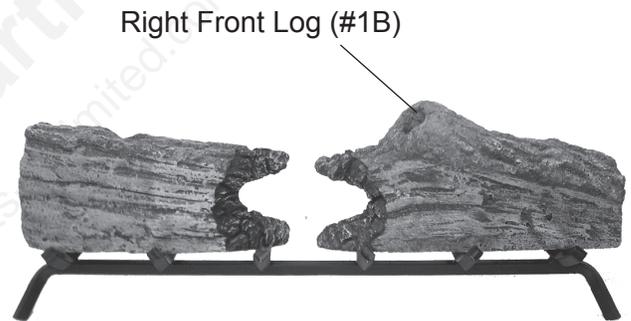
1. Slide shield plate down back of burner pan. See *Figure 118*.
2. Place Left Front Log #1A on front left of grate. See *Figure 119*.
3. Place Right Front Log #1B on front right of the grate. See *Figure 120*.
4. Place front end of Side Support Log #2 on top left of Log #1A. Rest other end of Log #2 on rear grate bar. See *Figure 121*.
5. Fit cutout in the bottom left of Rear Log #3 over the back end of log #2. Rest right end of Log #3 on rear grate bar. See *Figure 122*.



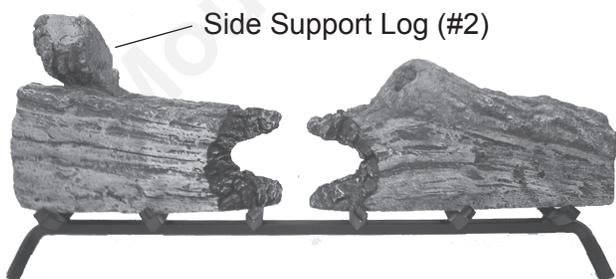
**Figure 118 - Sliding Shield Plate Down Back of Burner Pan**



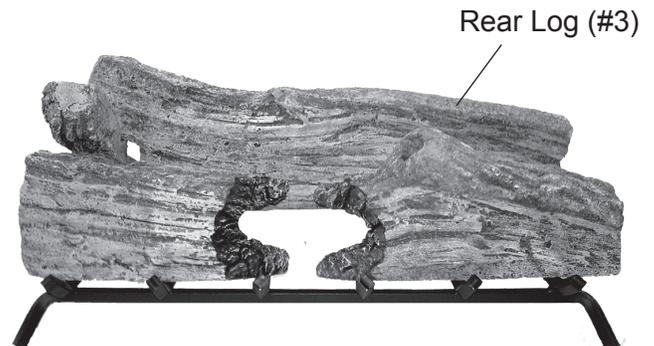
**Figure 119 - Placing Left Front Log #1A on Grate**



**Figure 120 - Placing Right Front Log (#1B) on Grate**



**Figure 121 - Placing Side Support Log (#2) on Top Left of Log #1A**



**Figure 122 - Installing Rear Log #3**

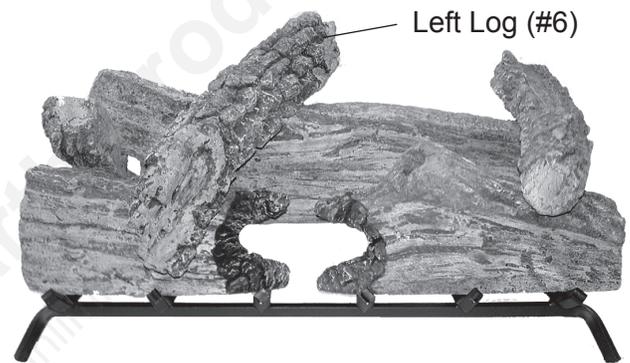
*Continued*

**MODELS VWF30 SPLIT PINE (continued)**

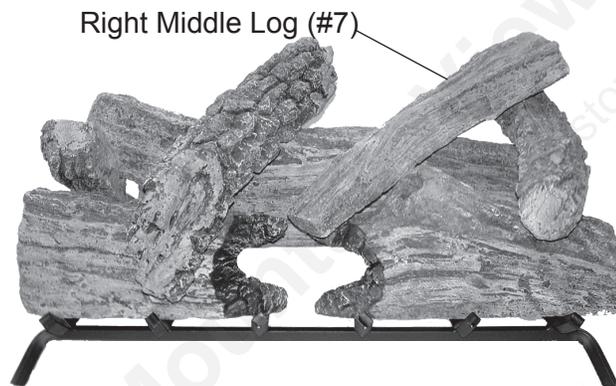
6. Rest front end of Right Log #4 on right top of Log #1B. The back end of Log #4 rests to right hump on Log #3. See Figure 123.
7. Rest front of Left Log #6 just left of the middle of Log #1A and back end of Log #6 just left of middle of Log #3. See Figure 124,
8. Place front of Right Middle Log #7 on top right of Log #1B. Rest back end of Log #5 on top right of Log #4. See Figure 125.
9. Lay Top Center Log #5 across log #7 with front end resting on Log #1B. See Figure 126.
10. Place front end of Top Left Log #8 on Log #6. Let back end of Log #8 rest on Log #3. See Figure 127.
11. Rest front of Top Top Log #9 on Log #8 and back of Log #9 on left end of Log #3. See Figure 128.



**Figure 123 - Installing Right Log (#4)**



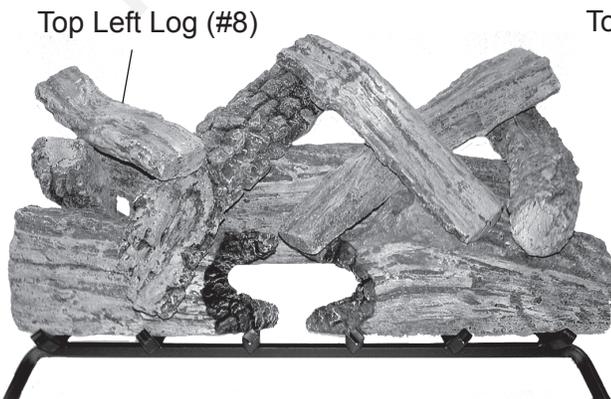
**Figure 124 - Installing Left Log (#6)**



**Figure 125 - Installing Right Middle Log (#7)**



**Figure 126 - Installing Top Center Log (#5)**



**Figure 127 - Installing Top Left Log (#8)**

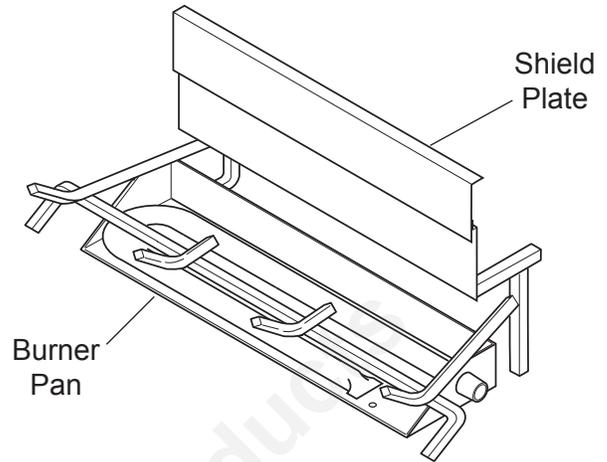


**Figure 128 - Installing Top Top Left Log (#9)**

## LOG PLACEMENT

### MODEL VWF24/18WP WEATHERED PINE LOG

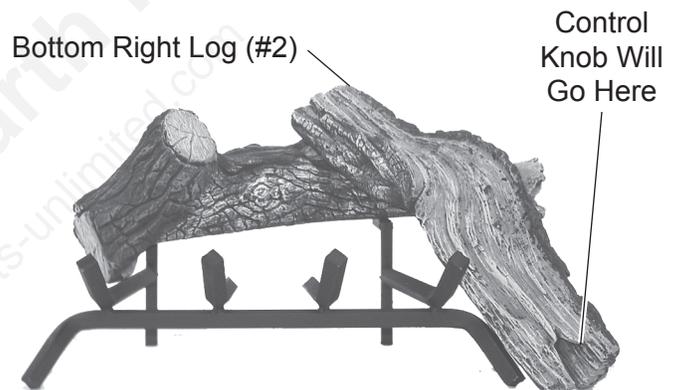
1. Slide shield plate down back of burner pan. See *Figure 129*.
2. Place Rear Log #1 on back of grate. Left side should fit on grate in front of rear stand. Right side goes on the rear stand of grate. See *Figure 130*.
3. Place Bottom Right Log #2 along outside of grate. Rest end on Rear Log #1. Control knob will stick through bottom notch of log. See *Figure 131*.
4. Place Bottom Left Log #3 on grate. The “V” of the log should straddle the end grate bar. See *Figure 132*.
5. Place Top Right Log #4 on Bottom Right Log #2 resting on grate. See *Figure 133*.



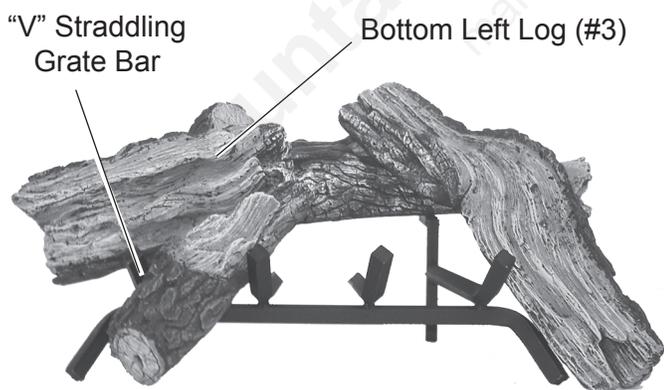
**Figure 129 - Sliding Shield Plate Down Back of Burner Pan**



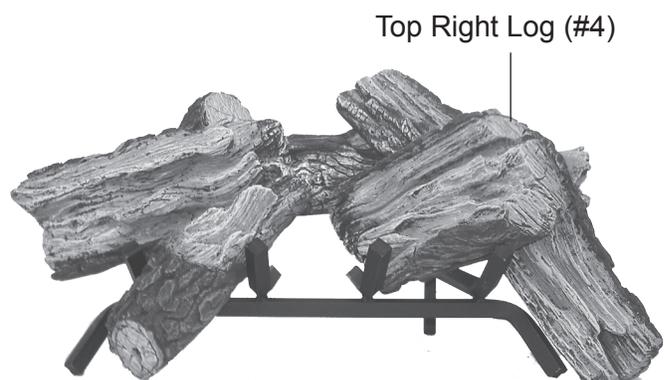
**Figure 130 - Placing Rear Log #1 on Back Grate**



**Figure 131 - Placing Bottom Right Log (#2)**



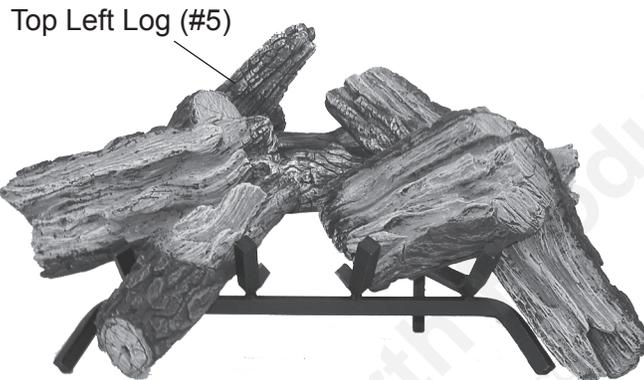
**Figure 132 - Straddling “V” of Bottom Left Log (#3) on Grate Bar**



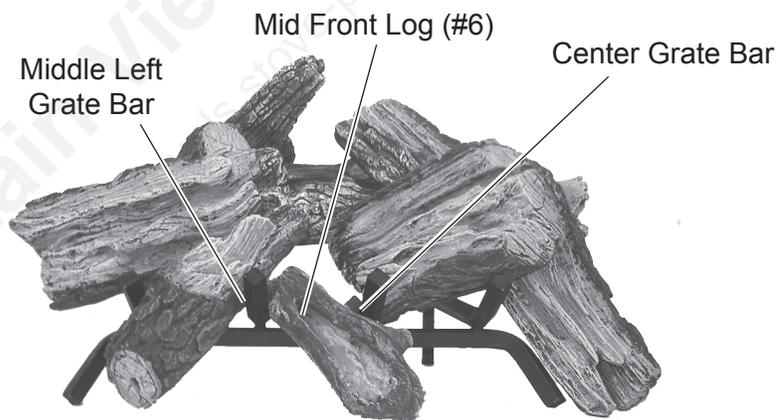
**Figure 133 - Placing Top Right Log (#4)**

**MODEL VWF24/18WP WEATHERED PINE LOG (continued)**

6. Place Top Left Log #5 behind Rear Log #1 on the notch on rear left of grate stand. *See Figure 134.*
7. Place Mid Front Log #6 on grate between center and middle left grate bars. *See Figure 135.*



**Figure 134 - Placing Top Left Log (#5) behind Rear Log**

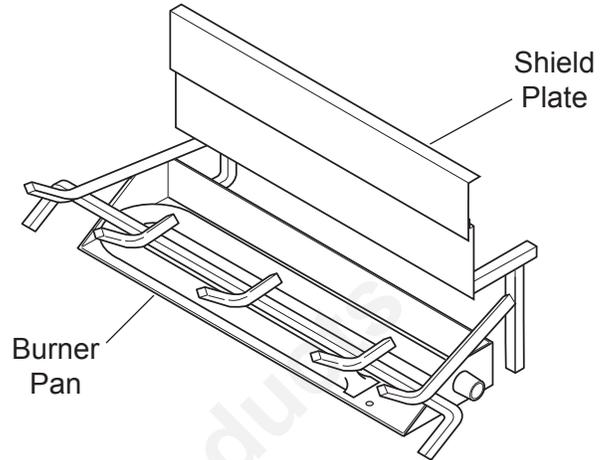


**Figure 135 - Placing Mid Front Log (#6) on Grate Between Center and Middle Left Grate Bars.**

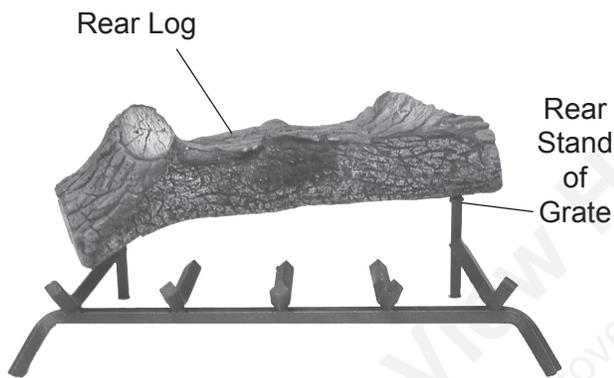
## LOG PLACEMENT

### MODEL VWF30/24WP WEATHERED PINE LOG

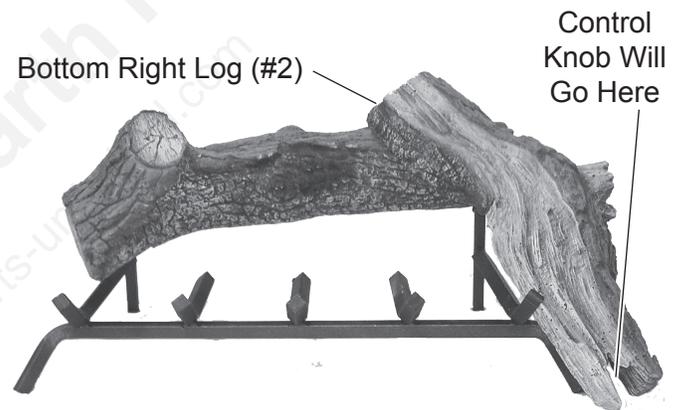
1. Slide shield plate down back of burner pan. See Figure 136.
2. Place Rear Log #1 on back of grate. Left side should fit on grate in front of rear stand. Right side goes on the rear stand of grate. See Figure 137.
3. Place Bottom Right Log #2 along outside of grate. Rest end on Rear Log #1. Control knob will stick through bottom notch of log. See Figure 138.
4. Place Top Right Log #4 on Bottom Right Log #2 resting on grate. See Figure 139.
5. Place Bottom Left Log #3 on grate. The “V” of the log should straddle the end grate bar. See Figure 140.



**Figure 136 - Sliding Shield Plate Down Back of Burner Pan**



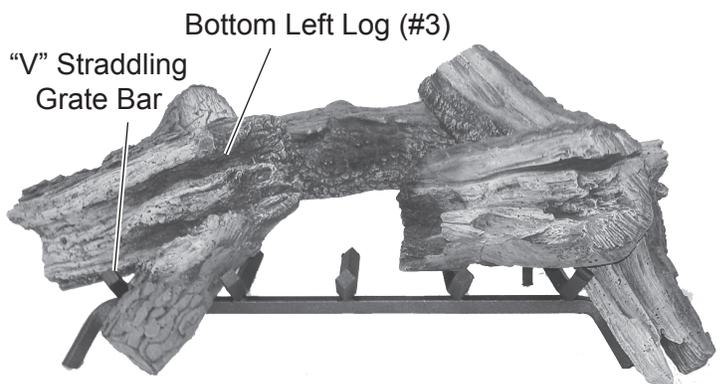
**Figure 137 - Placing Rear Log #1 on Back Grate**



**Figure 138 - Placing Bottom Right Log (#2)**



**Figure 139 - Placing Top Right Log (#4)**



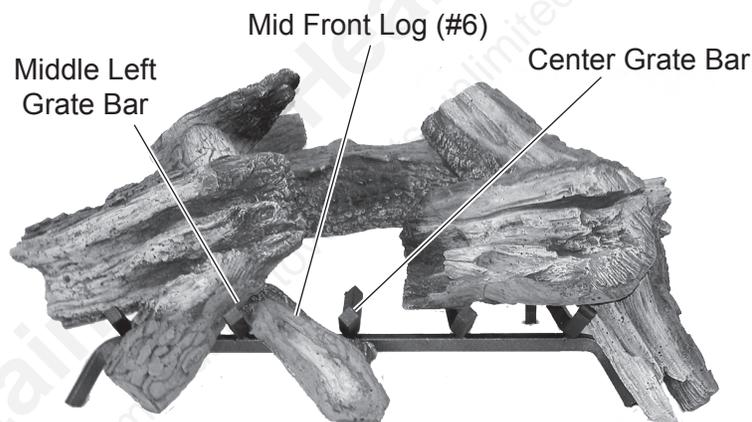
**Figure 140 - Straddling "V" of Bottom Left Log (#3) on Grate Bar**

**MODEL VWF30/24WP WEATHERED PINE LOG (continued)**

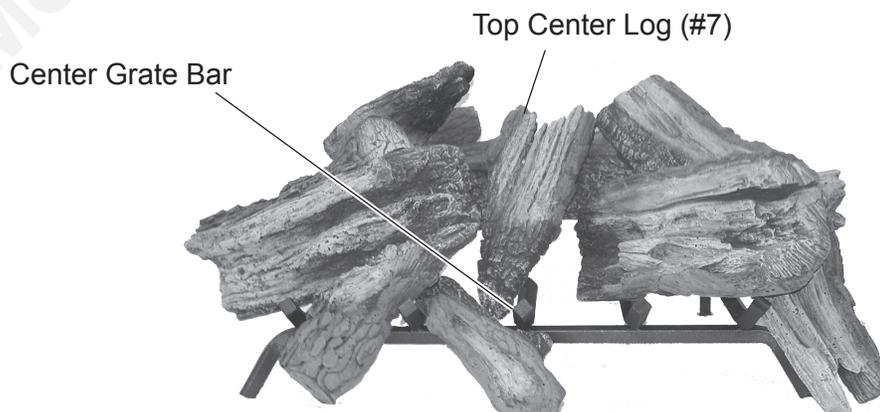
6. Place Top Left Log #5 behind Rear Log #1 on the notch on rear left of grate stand. *See Figure 141.*
7. Place Mid Front Log #6 on grate between center and middle left grate bars. Fit notch on back of log on the cross grate bar. *See Figure 142.*
8. Place wide end of Top Center Log #7 on Rear Log #1. Rest narrow end of Top Center Log #7 to the left of center grate bar barely touching the Mid Log #6. *See Figure 143.*



**Figure 141 - Placing Top Left Log (#5) behind Rear Log**



**Figure 142 - Placing Mid Front Log (#6) on Grate Between Center and Middle Left Grate Bars.**

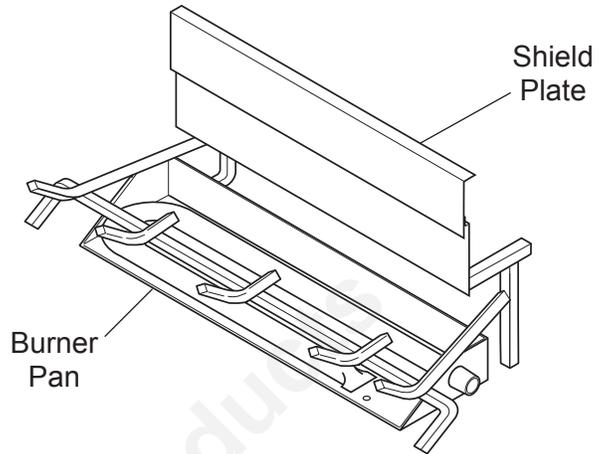


**Figure 143 - Placing Top Center Log (#7) on Rear Log**

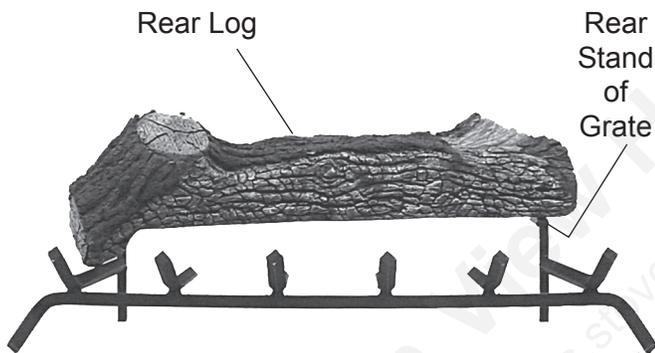
# LOG PLACEMENT

## MODEL VWF36/30WP WEATHERED PINE LOG

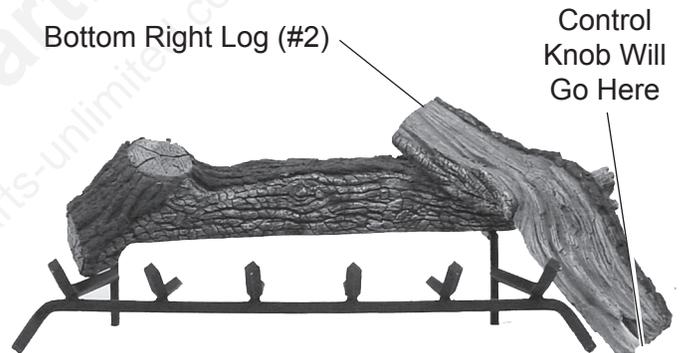
1. Slide shield plate down back of burner pan. See Figure 144.
2. Place Rear Log #1 on back of grate. Left side should fit on grate in front of rear stand. Right side goes on the rear stand of grate. See Figure 145.
3. Place Bottom Right Log #2 along outside of grate. Rest end on Rear Log #1. Control knob will stick through bottom notch of log. See Figure 146.
4. Place Bottom Left Log #3 on grate. The “V” of the log should straddle the end grate bar. See Figure 147.
5. Place Top Right Log #4 on Bottom Right Log #2 resting on grate. See Figure 148.



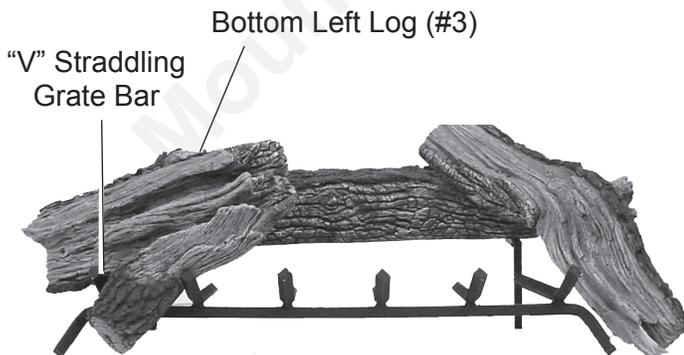
**Figure 144 - Sliding Shield Plate Down Back of Burner Pan**



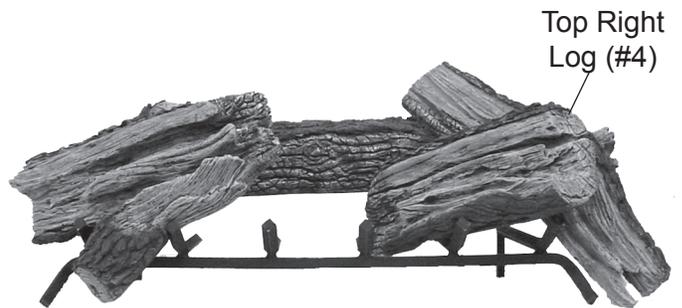
**Figure 145 - Placing Rear Log #1 on Back Grate**



**Figure 146 - Placing Bottom Right Log (#2)**



**Figure 147 - Straddling "V" of Bottom Left Log (#3) on Grate Bar**

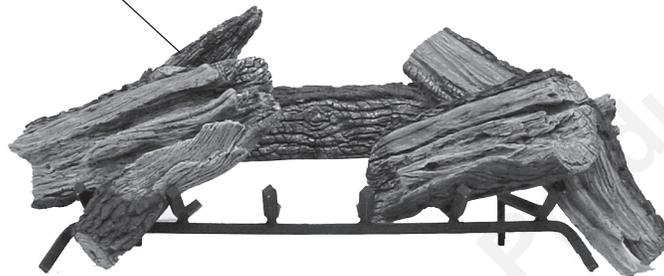
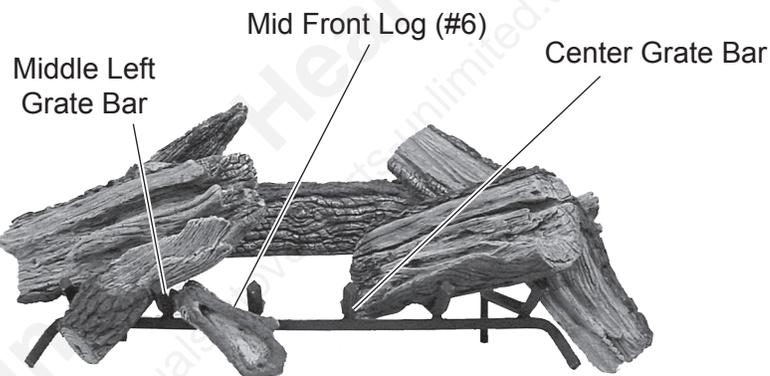


**Figure 148 - Placing Top Right Log (#4)**

**MODEL VWF36/30WP WEATHERED PINE LOG (continued)**

6. Place Top Left Log #5 behind Rear Log #1 on the notch on rear left of grate stand. *See Figure 149.*
7. Place Mid Front Log #6 on grate between center and middle left grate bars. Fit notch on back of log on the cross grate bar. *See Figure 150.*
8. Place wide end of Top Center Log #7 on Rear Log #1. Rest narrow end of Top Center Log #7 to the left of center grate bar barely touching the Mid Log #6. *See Figure 151.*

Top Left Log (#5)

**Figure 149 - Placing Top Left Log (#5) behind Rear Log****Figure 150 - Placing Mid Front Log (#6) on Grate Between Center and Middle Left Grate Bars.**

Center Grate Bar      Top Center Log (#7)

**Figure 151 - Placing Top Center Log (#7) on Rear Log**

## OPERATING INSTRUCTIONS FOR SPK AND CVTHL KITS

### SAFETY INSTRUCTION FOR MANUAL CONTROL (SPK) AND HI/LO CONTROL (CVTHL)

## FOR YOUR SAFETY READ BEFORE LIGHTING

**WARNING**

If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- A. BEFORE OPERATING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

#### WHAT TO DO IF YOU SMELL GAS:

- Do not attempt to light any appliance.
  - Do not touch any electric 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.
- B. Use only your hand to push in, or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- C. Do not use this appliance if any part of it 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.

## MANUAL CONTROL LIGHTING INSTRUCTIONS

1. STOP! Read the safety information label.
2. Make sure the manual shutoff valve is fully open.
3. Push in gas control knob slightly and turn clockwise to "OFF."  
**NOTE: Knob cannot be turned to "OFF" unless knob is pushed in slightly.**
4. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information label. If you don't smell gas, go to next step.
5. Find pilot — follow metal tube from gas control.
6. From "OFF" position, push in gas control knob slightly and turn counterclockwise to "PILOT." Push in control knob for 5 seconds.
7. With the control knob pushed in, immediately light the pilot with a match. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 9.
  - If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
  - If the pilot will not stay lit after several tries, turn the gas control knob to off and call your service technician or gas supplier.
8. Turn gas control knob counterclockwise to "ON."

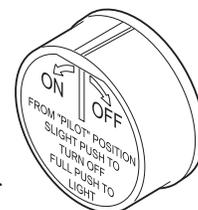


Figure 152 - Control Knob

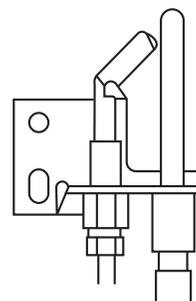


Figure 153 - Manual Pilot

## TO TURN OFF GAS TO HEATER

1. Push in gas control knob slightly and turn clockwise to OFF position. Do not force.

## Millivolt CONTROL LIGHTING INSTRUCTIONS

### NOTICE

The Millivolt control does not come preassembled with an on/off switch so that it may be customized for the specific application with a wall switch, remote, etc. A switch/remote must be connected to enable the burner to light.

1. STOP! Read the safety information label.
2. Make sure the manual shutoff valve is fully open.
3. Turn gas control knob clockwise  to the "OFF" position, and turn ON/OFF switch to "OFF" position.
4. Wait (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP!
5. From "OFF" position, turn the gas control knob counterclockwise  to "PILOT" position. Push in control knob for 5 seconds.
6. With the control knob pushed in, light pilot with match.
7. Continue pushing the control knob in for a further 60 seconds to prevent the flame detector from shutting off the gas while the probe is warming up. Release the control knob.
8. Turn gas control knob counterclockwise  to the "ON" position.
9. After the pilot has been lit for one minute, the burners can be turned on. Turn the ON/OFF switch to "ON" position.
10. If the gas logs will not operate, follow the instructions *To Turn Off Gas To Heater* and call your service technician or gas supplier.

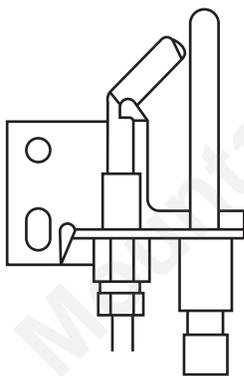


Figure 154 - Pilot

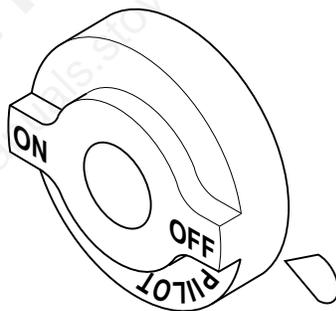


Figure 155 - Control Knob

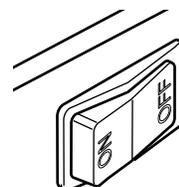


Figure 156 - On/Off Switch

## TO TURN OFF GAS TO HEATER

1. Turn control knob clockwise  to OFF position to completely shut off the heater.
2. If applicable: Turn ON/OFF switch to OFF position.

# OPERATING INSTRUCTIONS FOR MANVK KIT

## SAFETY INSTRUCTION FOR MANUAL CONTROL WITHOUT PILOT

**WARNING**

If you do not follow these instruction exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

## FOR YOUR SAFETY READ BEFORE LIGHTING

**A.** BEFORE OPERATING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

### WHAT TO DO IF YOU SMELL GAS:

- Do not attempt to light any appliance.
  - Do not touch any electric 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.
- B.** Use only your hand to push in, or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- C.** Do not use this appliance if any part of it 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.

## MANUAL CONTROL LIGHTING INSTRUCTIONS

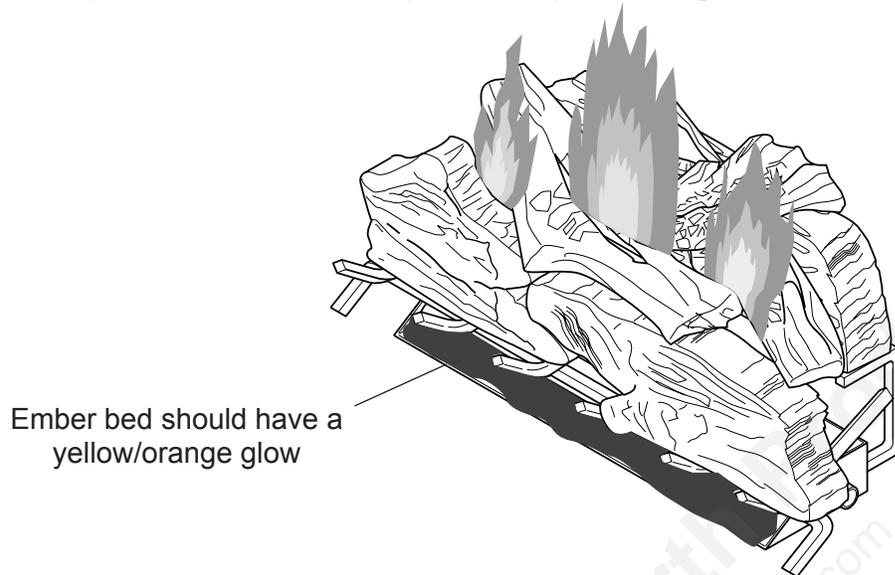
1. STOP! Read the safety information label.
2. WARNING: BE SURE THE CHIMNEY DAMPER IS FULLY OPEN.
3. Make sure the manual shutoff valve is fully open, and the gas control valve is fully off.
4. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information label. If you don't smell gas, go to next step.
5. Place a burning match on the surface of the burner embers (granules). Do not hold the match in hand. Slowly turn the manual valve counterclockwise  to "ON".
6. If the burner does not light before the match goes out, immediately turn the manual valve clockwise  to "OFF".

## TO TURN OFF GAS TO HEATER

1. Turn the manual valve clockwise  to "OFF."

**CHECKING BURNER FLAMES**

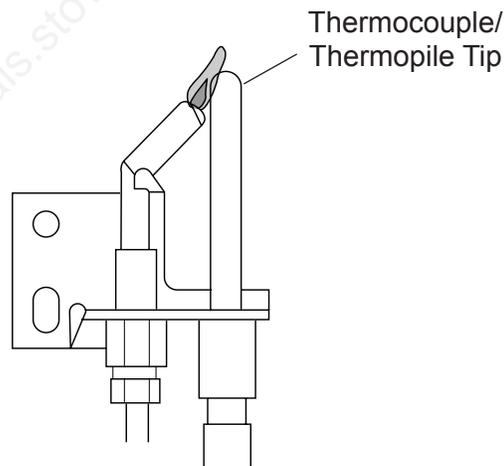
Flame should be yellow and extend vertically (not curling toward fireplace screen).



**Figure 157 - Flame Appearance**

**PILOT FLAME APPEARANCE**

The pilot flame must always be present when appliance is operating. It should just touch the top of the thermocouple/thermopile tip.



**Figure 158 - Pilot Flame Appearance**

During manufacturing, fabricating, and shipping, various components of this appliance are treated with certain oils, films, or bonding agents. These chemicals are not harmful, but may produce annoying smoke and smells as they burn off the first time the appliance is used. Operate the appliance 2 to 3 hours at the highest setting to burn off all the oils, films, etc. Never use this appliance with glassed doors closed. This could cause the pilot to go out and severe sooting outside the fireplace. Always operate this appliance with the fireplace screens in place.

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## FIREPLACE DRAFT TEST

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### ***IMPORTANT: Fireplace Draft Test During Initial Installation***

It is critical to verify that your chimney is drafting properly because the fireplace and gas logs function as a system.

Although MHS goes to great lengths to design vented gas log sets that minimize sooting, all vented log sets will soot over time. Sooting normally appears as areas of black powder-like substance on the logs. It is important to periodically clean and inspect the logs per the cleaning and servicing.

### **WARNING**

Fireplace systems that do not draft properly can increase the amount of soot produced by normal operation of the log set and, in extreme cases, can cause soot to be deposited within the room. This effect can be a sign of a blocked chimney, a faulty vent system or the result of negative pressure within the home. The dealer should be able to diagnose if a problem exists and be able to provide a solution to improve the venting of the fireplace.

### **FIREPLACE DRAFT TEST METHOD**

To determine if your fireplace is drafting properly, turn the log set on. After log set has been burning for about 10 minutes, place a match or smoke stick along the top and sides of the fireplace opening. If the flame or smoke is not pulled into the fireplace, then ***the fireplace is not venting properly***. At this point, the damper stop should be adjusted so that the damper opening is increased. If the problem remains after the open area of the damper is increased, then the fireplace system should be professionally inspected to determine if your firebox/chimney is venting properly.

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## REMOTE CONTROL RECEIVER REPLACEMENT

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The remote control receiver and batteries are very sensitive to heat. Exposure to high temperatures can cause the receiver to malfunction and shorten the life of the batteries. If your fireplace does NOT have a restrictive barrier (see page 6), such as glass doors, it is recommended that the remote receiver be affixed to the right hand side of the heat shield or placed in the front, right corner of the fireplace. If your fireplace has a restrictive barrier, it is recommended that the remote receiver be placed outside of the fireplace.

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## CLEANING AND SERVICING

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### WARNING

Turn off gas logs and allow to cool before cleaning. Disconnect electrical power if applicable before cleaning or servicing.



**Figure 159 - Removing Soot with a Soft Bristle Brush**

The log set should be cleaned at least once a year for maximum performance.

Turn gas supply off. Allow unit to cool. Remove logs, handling carefully by holding gently at each end. Gloves are recommended when handling the log to prevent skin irritation from ceramic fibers. If skin becomes irritated, wash gently with soap and water. Refer to manual for correct log placement. Brush each log gently with a soft bristle brush. This will remove soot that has built up on the log set. **DO NOT USE LIQUID SOOT REMOVER ON LOGS!**

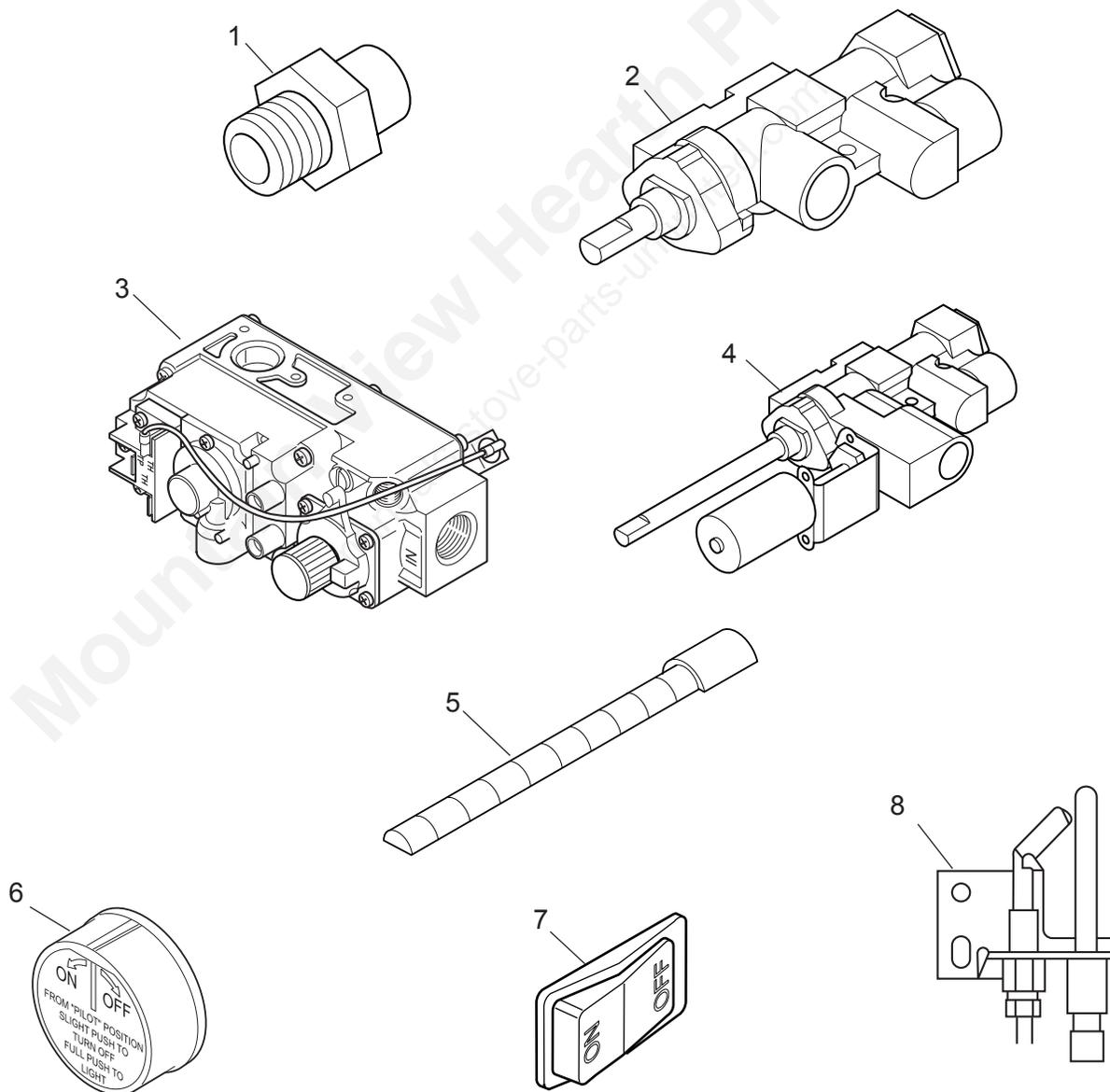
To refurbish the grate, remove grate and take it outside. Use a wire brush or sandpaper to remove any discoloration to the grate. Paint grate with high temperature black paint (barbecue paint). Reinstall grate after paint dries.

If embers (rock wool) have turned a rust color and become brittle, remove old embers (rock wool) from log set. Replace with new rock wool. Rock wool can be purchased from you local dealer. See log placement section for placement of embers.

# REPLACEMENT PARTS

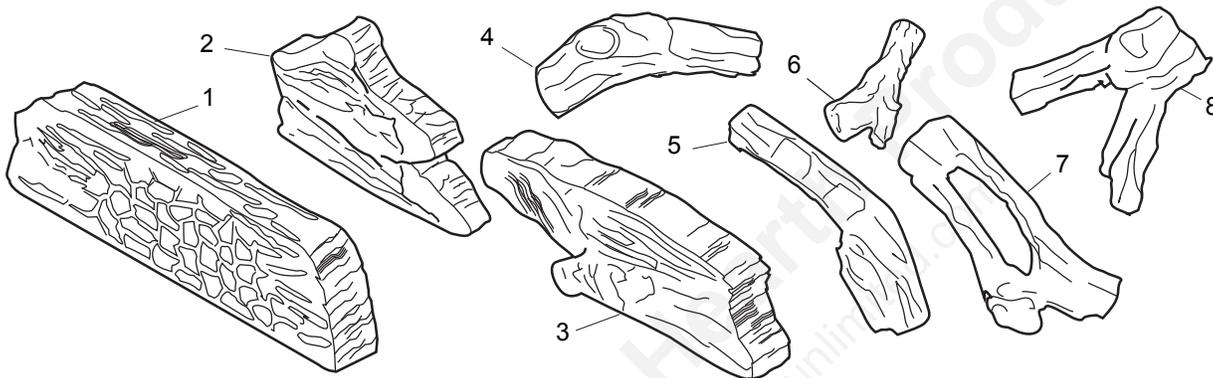
## ASSEMBLY

Item	Description	SPK-NGA	SPK-LPA	MVVKNA	MVVKLPA	CVTHL-NG	CVTHL-LP	MANVK
1	Injector	27D7022	27D0406	27D7022	27D0406	27D7022	27D0406	27D7022
2	Manual Control Valve	27D8951	27D8951	—	—	—	—	27D0303
3	Millivolt Control Valve	—	—	27D8006	27D8005	—	—	—
4	Hi/Lo Control valve (CVTHL)	—	—	—	—	27D8954	27D8954	—
5	Manual Shaft Extender (2 Required)	27D0410	27D0410	—	—	—	—	27D0410
6	Control Knob	27D0602	27D0602	—	—	—	—	27D0417
7	Switch	—	—	32D0232	32D0232	—	—	—
8	Pilot	27D0301	27D0302	27D2052	27D2053	27D0301	27D0302	—



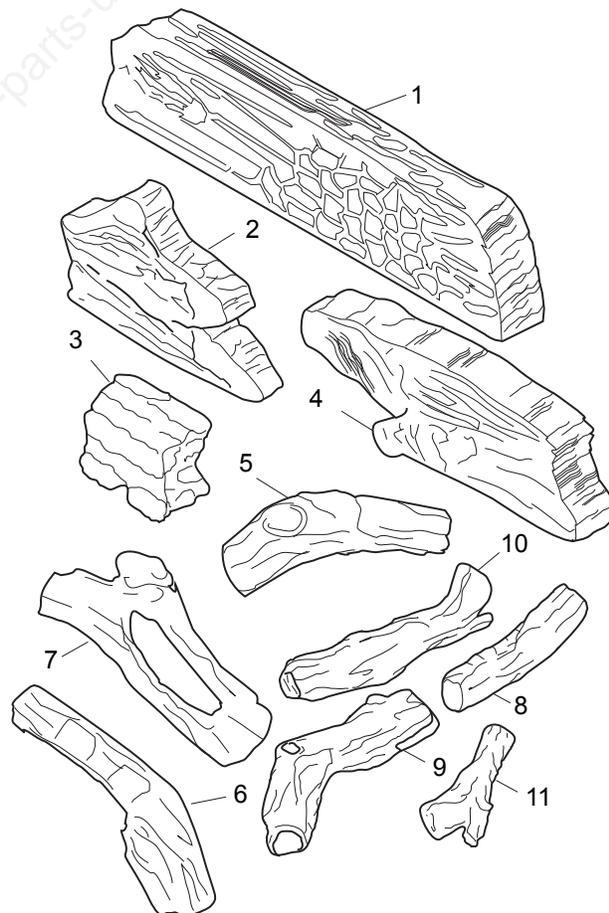
**MASSIVE OAK LOGS**

Item	Description	Qty.	VWF18MO	VWF24MO	VWF30MO
1	Back Log	1	27D7500	27D7506	27D7510
2	Left Front Log	1	27D7501	27D7507	27D7511
3	Right Front Log	1	27D7502	27D7508	27D7512
4	Left Side Middle Log	1	27D7503	27D7503	27D7503
5	Right Side Middle Log	1	27D7504	27D7504	27D7504
6	Right Top Log	1	27D8826	27D8826	27D8826
7	Left Top Log	1	—	27D7509	S7D7509
8	Top Crossover Log	1	—	—	27D7513



**MASSIVE OAK LOGS**

Item	Description	Qty.	VWF36MO
1	Rear Log	1	27D8824
2	Left Front Log	1	27D7511
3	Center Front Log	1	27D8825
4	Right Front Log	1	27D7512
5	Left Side Log	1	27D7503
6	Right Side Log	1	27D7504
7	Right Side Middle Log	1	27D7509
8	Top Log	1	27D8599
9	Top Log	1	27D8581
10	Top Log	1	27D8586
11	Top Left Log	1	27D8826



# REPLACEMENT PARTS

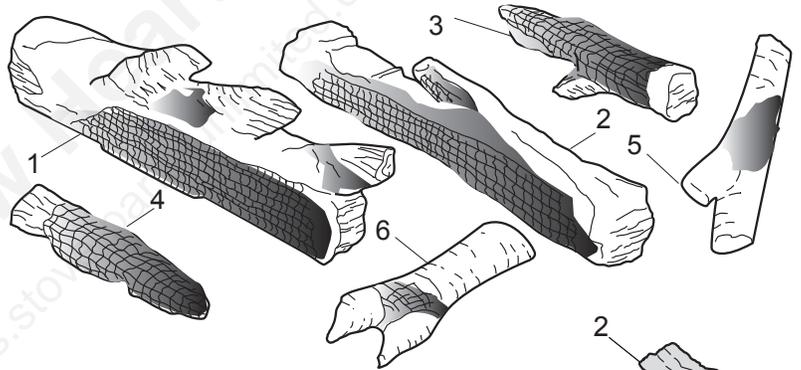
## AMERICAN OAK LOGS

Item	Description	Qty.	VWF18AO	VWF24AO	VWF30AO
1	Front Log	1	27D8576	27D8584	27D8592
2	Back Log	1	27D8577	27D8585	27D8593
3	Right Middle Log	1	—	27D8588	—
4	Left Middle Log	2	27D8580	27D8580	27D8580
5	Top Right Log	2	—	—	27D8594
6	Top Left Log	1	—	27D8587	—
7	Top Center Log	1	—	—	27D8578
7	Top Center Log	2	27D8578	—	—
8	Top Top Center Log	1	—	—	27D8600



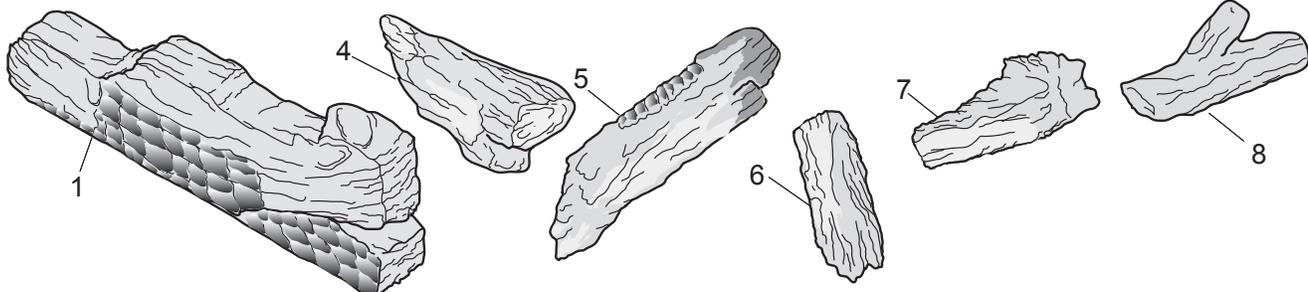
## BIRCH LOGS

Item	Description	Qty.	VWF24B
1	Back Log	1	27D1026
2	Middle Log	1	27D1025
3	Right Front Log	1	27D1024
4	Left Front Log	1	27D1023
5	Top Right Log	1	27D1028
6	Top Left Log	1	27D1027



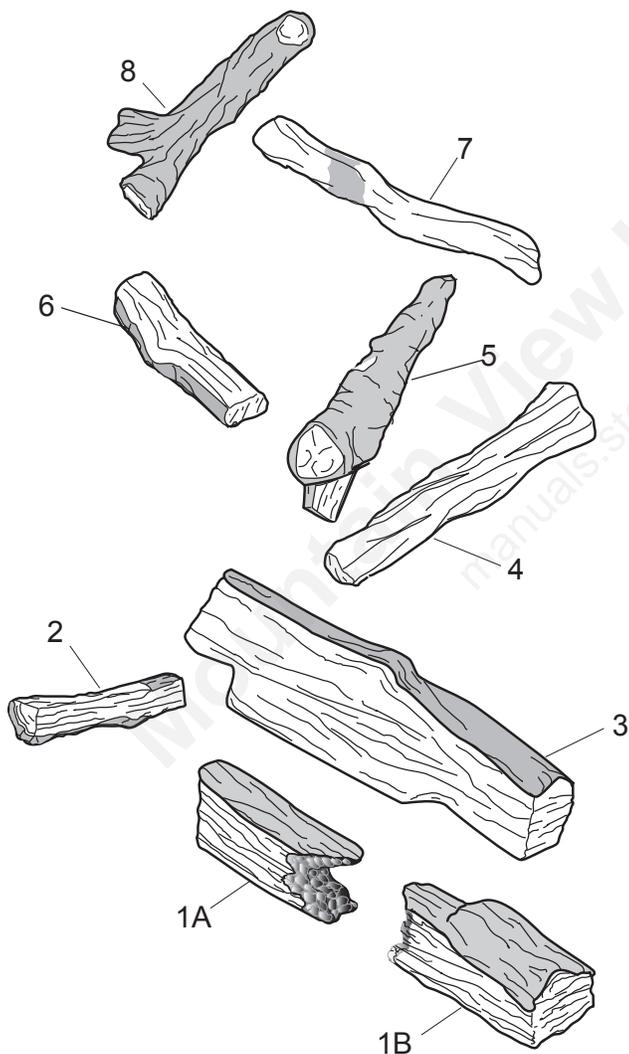
## SPLIT RIVER OAK LOGS

Item	Description	Qty.	VWF24/18SRO	VWF30/24SRO	VWF36/30SRO
1	Front Log	1	27D8800	27D8807	27D8814
2	Bottom Left Log	1	27D8801	27D8808	27D8815
3	Bottom Right Log	1	27D8802	27D8809	27D8816
4	Top Right Log	1	27D8803	27D8810	27D8817
5	Bottom Front Left Log	1	27D8804	27D8811	27D8818
6	Top Left Log	1	27D8805	27D8812	27D8812
7	Center Top Log	1	27D8806	27D8813	27D8820
8	Front Right Log	1	—	—	27D8821

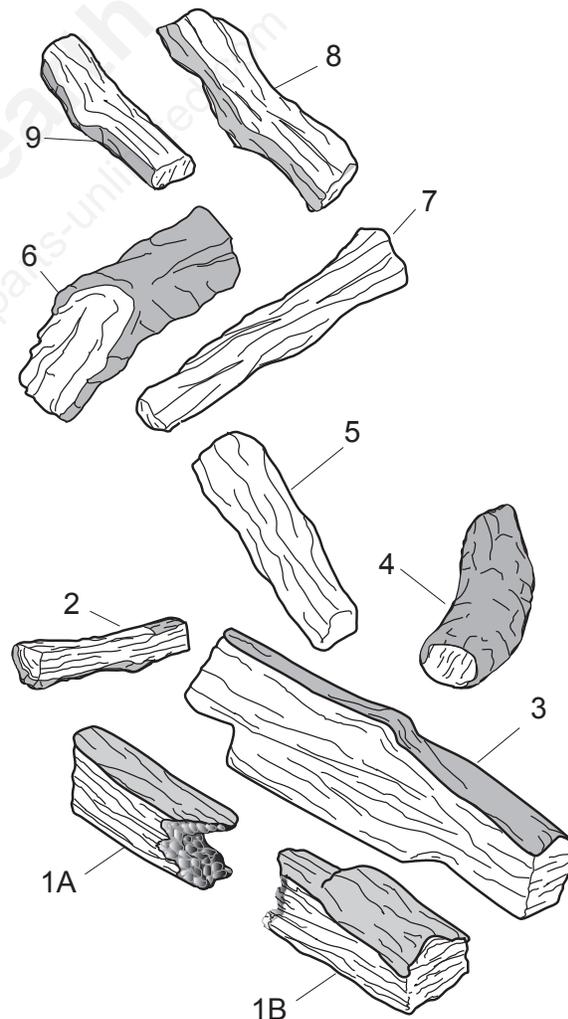


SPLIT PINE LOGS

Item	Description	Qty.	VWF18SP	VWF24SP	VWF30SP
1A	Front Left Log	1	27D8700	27D8702	27D8704
1B	Right Front Log	1	27D8701	27D8703	27D8705
2	Side Support Log	1	27D8551	27D8551	27D8567
3	Rear Log	1	27D8552	27D8560	27D8568
4	Right Log	1	—	27D8561	27D8569
5	Right Middle Log	1	27D8554	27D8562	27D8570
6	Left Log	1	27D8555	27D8555	27D8571
7	Top Center Log	1	27D8556	27D8564	27D8561
8	Top Left Log	1	27D8557	27D8557	27D8565
9	Top Top Left Log	1	—	—	27D8555



VWF18SP AND VWR24SP

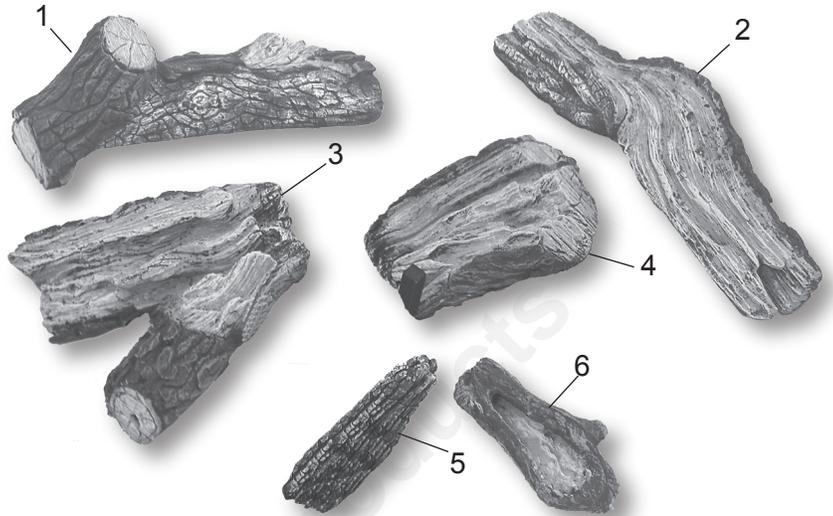


VWF30SP

# REPLACEMENT PARTS

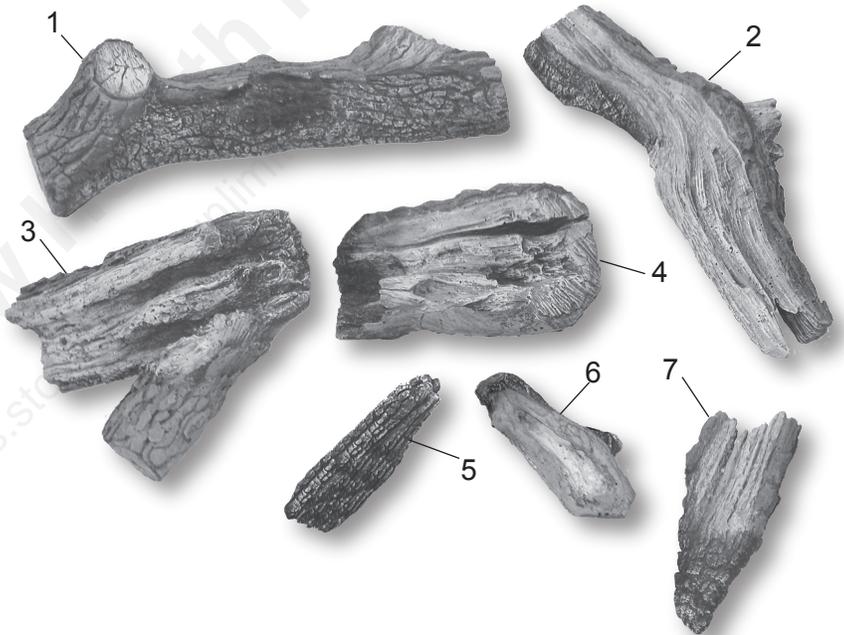
## WEATHERED PINE LOGS

Item	Description	Qty	VWF24/18WP
1	Rear Log	1	27D5140
2	Bottom Right Log	1	27D5141
3	Bottom Left Log	1	27D5142
4	Top Right Log	1	27D5143
5	Top Left Log	1	27D5144
6	Mid Front Log	1	27D5145



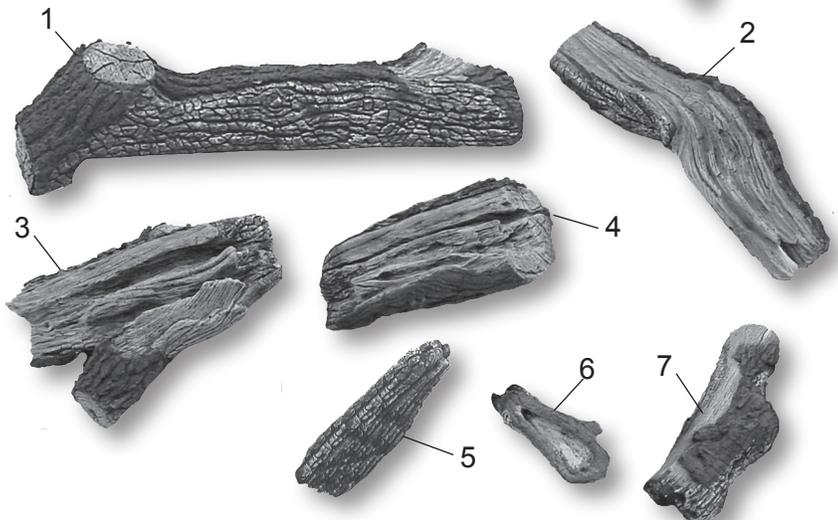
## WEATHERED PINE LOGS

Item	Description	Qty	VWF30/24WP
1	Rear Log	1	27D5146
2	Bottom Right Log	1	27D5147
3	Bottom Left Log	1	27D5148
4	Top Right Log	1	27D5149
5	Top Left Log	1	27D5150
6	Mid Front Log	1	27D5145
7	Top Center Log	1	27D5151



## WEATHERED PINE LOGS

Item	Description	Qty	VWF36/30WP
1	Rear Log	1	27D5152
2	Bottom Right Log	1	27D5153
3	Bottom Left Log	1	27D5154
4	Top Right Log	1	27D5155
5	Top Left Log	1	27D5156
6	Mid Front Log	1	27D5145
7	Top Center Log	1	27D5157



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## Massachusetts Residents Only — Please read and follow these special requirements

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### NOTE REGARDING VENTED PRODUCTS

This product must be installed by a licensed plumber or gas fitter when installed within the Commonwealth of Massachusetts.

Any residence with a direct vent product must have a CO detector installed in the residence.

Installation of the fireplace or vented gas log in the State of Massachusetts requires the damper to be permanently removed or welded in the fully open position.

In addition, a naturally vented gas log may not be installed in a bedroom or bathroom in the State of Massachusetts.

Flex line installation must not exceed 36 inches and must have a T shutoff valve.

### NOTE REGARDING VENT FREE PRODUCTS

This product must be installed by a licensed plumber or gas fitter when installed within the Commonwealth of Massachusetts.

In addition, vent free products may not be installed in a bedroom or bathroom regardless of size or type in the State of Massachusetts.

Flex line installation must not exceed 36 inches and must have a T shutoff valve.

### CARBON MONOXIDE DETECTOR REQUIREMENTS

(2) Revise 10.8.3 by adding the following additional requirements:

(a) For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

1. **Installation of carbon monoxide detectors.** At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gas fitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gas fitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors

a. In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.

b. In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

2. **Approved Carbon Monoxide Detectors.** Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.

3. **Signage.** A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) inch in size, "GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS."

4. **Inspection.** The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a)1 through 4.

(b) **Exemptions:** The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:

1. The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and

2. Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

(c) **Manufacturer requirements — Gas Equipment Venting System Provided.** When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

1. Detailed instructions for the installation of the venting system design or the venting system components; and

2. A complete parts list for the venting system design or venting system.

(d) **Manufacturer requirements — Gas Equipment Venting System Not Provided.** When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies "special venting systems," the following requirements shall be satisfied by the manufacturer:

1. The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and

2. The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

(e) A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design

## LIMITED LIFETIME WARRANTY POLICY

### LIFETIME WARRANTY

The following components are warranted for life to the original owner, subject to proof of purchase: Firebox, Combustion Chamber, Heat Exchanger, Grate, Stainless Steel Burners, and Vented Fiber Ceramic and Refractory Logs.

### FIVE YEAR WARRANTY

The following components are warranted for 5 years to the original owner, subject of proof of purchase: Aluminized Burners.

### BASIC WARRANTY

MHS warrants the components and materials in your gas appliance to be free from manufacturing and material defects for a period of two years from date of installation. After installation, if any of the components manufactured by MHS in the appliance are found to be defective in materials or workmanship, MHS will, at its option, replace or repair the defective components at no charge to the original owner. MHS will also pay for reasonable labor costs incurred in replacing or repairing such components for a period of two years from the date of installation. Any products presented for warranty repair must be accompanied by a dated proof of purchase.

This Limited Warranty will be void if the appliance is not installed by a qualified installer in accordance with the installation instructions. The Limited Lifetime Warranty will also be void if the appliance is not operated and maintained according to the operating instructions supplied with the appliance, and does not extend to (1) firebox/burner assembly damage by accident, neglect, misuse, abuse, alteration, negligence of others, including the installation thereof by unqualified installers, (2) the costs of removal, reinstallation or transportation of defective parts on the appliance, or (3) incidental or consequential damage. All service work must be performed by an authorized service representative.

This warranty is expressly in lieu of other warranties, express or implied, including the warranty of merchantability of fitness for purpose and of all other obligations or liabilities. MHS Heating Systems does not assume for it any other obligations or liability in connection with the sale or use of the appliance. In states that do not allow limitations on how long an implied warranty lasts, or do not allow exclusion of indirect damages, those limitations of exclusions may not apply to you. You may also have additional rights not covered in this Limited Warranty.

MHS reserves the right to investigate any and all claims against the Limited Warranty and decide upon method of settlement.

For information about this warranty, contact:

**Technical Services Department**  
**MHS**  
**149 Cleveland Drive**  
**Paris, Kentucky 40361**