



# INSTALLATION AND OPERATION GUIDE FOR HARGROVE GAS LOGS

For burner/grate accessory models:  
21AKBSN1/2RMENG

For the following gas log sets:

CLBN 5-18, CLBN 5-21, WPBN 5-18, WPBN 5-21, ISBN 5-18, ISBN 5-21

The aforementioned models have been evaluated and certified according to ANSI Z2160-1996/CGA 2.26-M96 standards by C.S.A. Refer to the attached nameplate on the burner system for cross-reference of the model number to affirm the correct instruction manual is applicable to your unit.

## NOTE!

Installation and service must be performed by a qualified installer, service agent, or the gas supplier.

**ADEQUATE FIREPLACE VENTILATION IS REQUIRED FOR SAFETY.  
READ INSTRUCTIONS FULLY BEFORE INSTALLING OR OPERATING.  
INSTALLER: LEAVE THESE INSTRUCTION WITH CONSUMER!**

Hargrove Manufacturing Corporation uses refractory concrete to create the ceramic logs. Each log is hand finished to assure the most realistic, detailed logs available. The gas log burner system is designed to simulate wood burning, with a yellow smoke flame. For this reason the gas log set must be burned only in a fully vented, non-combustible fireplace with the damper completely open and the chimney free of any obstruction or restrictions. The fireplace must be designed and approved to burn wood. The realistic yellow flame produces soot and carbon monoxide. Under normal conditions the bi-products will exhaust up the chimney. If fumes or soot are evident in the room when the damper is fully open; it indicates that the fireplace draft is defective. Do not operate your gas log set until the fireplace draft is corrected.

### FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

### FOR YOUR SAFETY

#### 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.

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

It is the homeowner's responsibility to assure their fireplace has an adequate draft.

### RECOMMENDED BURN-IN PERIOD

Hargrove gas logs are made of refractory materials, which withstand high temperatures. One characteristic of this material is moisture retention. For this reason, we recommend burning the log set for only fifteen minutes during the first burning. After allowing the logs to cool for at least one hour, the set can be burned for any length of time.

### WARRANTY

Hargrove gas logs carry a limited lifetime warranty against breakage in the original fireplace. This warranty does not include labor. This warranty is void if excessive handling after using the set causes breakage. All accessories and metal parts carry a two-year limited warranty in the original fireplace. Hargrove will replace items during this period for the cost of shipping.

## IMPORTANT INFORMATION

**WARNING: This appliance assembly contains a burner orifice specifically for the input gas and btu rating. Modifying or failure to use the factory orifice may cause property damage, personal injury or loss of life.**

1. This appliance has been assembled for a specified inlet supply gas. Do not use a natural appliance with a propane gas inlet supply. Do not use a propane appliance with a natural gas inlet supply.
2. There are many different local codes for gas log appliances. The installation and the provisions for combustion and ventilation air must conform with local codes and/or in the absence of local codes, with the National Fuel Gas Code ANSI Z223.1 (current revision)
3. A qualified personnel, service agent, or the gas supplier must install this appliance.
4. This appliance must be installed only in a solid fuel burning fireplace with a working flue and constructed of noncombustible material. Solid fuels cannot be used in a fireplace where a Hargrove gas unit has been installed.
5. A permanent free opening must be provided by either the fireplace chimney or chimney damper to vent flue gasses. Any chimney damper must be fixed in such a manner, which will maintain the permanent free opening at all times. Use Table II to determine the minimum permanent free opening based upon chimney height and the appliance BTU rate. Refer to the Damper Stop instructions for additional directions.
6. Two factors, chimney height and the BTU rating determine the minimum free opening. Many other factors will affect the fireplace drafting. It is the homeowner's responsibility to assure their fireplace has an adequate draft. If fumes or soot exist in the room while the gas is burning and the damper is fully opened, it indicates that the fireplace draft is defective. Do not operate your gas log set until the fireplace draft is corrected. Consult your fireplace specialist.
7. A fireplace screen must be in place when the appliance is operating unless other provisions for an air supply are provided. The screen shall have openings for the introduction of fresh air for the unit.
8. When glass fireplace doors are used, always operate the gas log appliance with the doors fully open to allow fresh air for the appliance and to keep the controls from overheating.
9. The minimum inlet supply pressure for the purpose of input adjustment is 5.0 inches W.C. (natural gas) and 8.0 inches W.C. (propane gas). The maximum inlet supply pressure is 10.0 inches W.C. (natural gas) and 12.0 inches W.C. (propane gas).
10. The appliance and its individual shut off valve must be disconnected from the gas supply piping system during any pressure testing in excess of ½ psig (3.5 kPa). The appliance must be isolated for the gas supply piping system by closing its individual manual shut off valve during pressure tests in excess of ½ psig (3.5 kPa).
11. The fireplace chimney or venting system should be examined annually and cleaned as required by a qualified agency.
12. After burning for several hours the logs become fragile and should not be handled. Knocking or rubbing logs can cause the log to crumble and is not covered under the warranty.
13. Use a soft, dry paintbrush to clean the logs. A periodic dusting may be required to remove carbon deposits. A rubbing action will remove the soot but will also remove some of the color pigments of the log.
14. To clean the burner, shut off the gas supply, remove burner pan media, and vacuum gas ports. After cleaning replace burner pan media and light the pilot according to the lighting instructions.

# FIREPLACE SIZES

Each gas log set requires a minimum for the front opening, height, and minimum depth. To determine the largest set that will fit in a fireplace, the depth and width are the critical dimensions. The following illustration reflects a view directly above the fireplace looking down. The minimum height for this model is 22 inches.

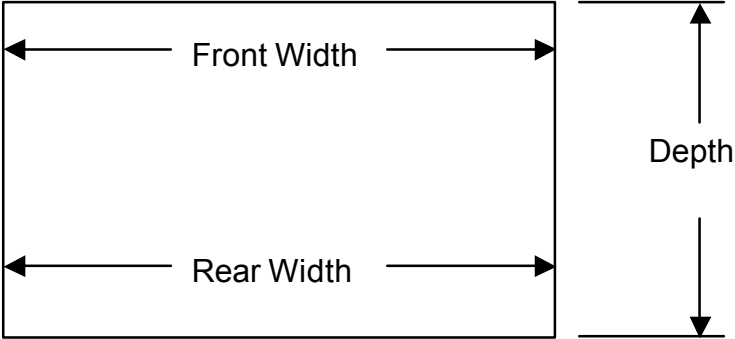


Table I below indicates the minimum the depth, width, and height for each set size:

<b>TABLE I</b>				
<b><u>Set Size</u></b>	<b><u>Minimum Rear Width</u></b>	<b><u>Minimum Front Opening Width</u></b>	<b><u>Minimum Depth</u></b>	<b><u>Minimum Height</u></b>
<b>18"</b>	<b>26"</b>	<b>26"</b>	<b>22"</b>	<b>22"</b>
<b>21"</b>	<b>26"</b>	<b>26"</b>	<b>22"</b>	<b>22"</b>

## TABLE II

Free opening area of chimney damper for venting combustion bi-products from decorative appliances for installation in vented fireplaces. The minimum size of chimney flue is 8 inches in diameter.

**Appliance Input Rate (Natural Gas): 56,000 Btu/hr      (Propane): 46,000 Btu/hr**

### FACTORY BUILT FIREPLACES

### MASONRY FIREPLACES

Fireplace Height (Feet)	Minimum Permanent Free Opening in sq. in.		Fireplace Height (Feet)	Minimum Permanent Free Opening in sq. in.	
	<b>Natural</b>	<b>Propane</b>		<b>Natural</b>	<b>Propane</b>
10	35.3	28.3	6	49.2	41.7
15	26.4	21.2	8	45.5	38.7
20	22.1	18.1	10	41.7	35.2
25	18.1	15.9	15	37.7	32.0
30	17.3	14.5	20	34.3	28.8
35	15.9	13.2	30	31.2	26.5
40	15.2	12.6			

## INSTALLING HARGROVE GAS LOGS PARTS LIST

1. Pedestal Grate
2. See Thru Burner (Narrow)
3. Sand (Natural Gas Only)
4. Fire Embers
5. Aluminum Connector
6. RobertShaw Millivolt Control
7. Pilot Burner (Natural Gas Only)
8. Volcanic Cinders
9. Damper Stop
10. Burner Orifice (Nat. Gas Only)
11. Fire Logs (Not Shown)
12. Burner to Grate Bracket
13. Heat Shield for RME Valve

- STGN-16 5/8**  
**STBN-14**  
**SD**  
**EM**  
**AC-18**  
**RME**  
**RSTPG-18**  
**VC**  
**DS**  
**BO-27**
- SBN-GBB**  
**HS-RME**



1



2



3



4



5



6



7



8



9



10



12



13

## DAMPER STOP

Attach the damper stop clamp to the fireplace damper blade. Position the clamp to prevent full closure of the fireplace damper blade.

(See Figure 1)

If the damper stop provided does not fit, the installer shall install a permanent damper stop that will keep the damper open to a minimum of opening as determined in Table II. (See Item 6 of IMPORTANT INFORMATION)

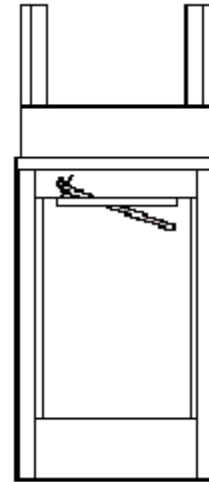


Figure 1

### CAUTION

THE DAMPER MUST BE FULLY OPEN  
WHEN OPERATING THE GAS LOGS!

## SEE THROUGH BURNER (NARROW) POSITIONING



1. Turn gas **off**.
2. Remove old log lighter, ashes, and other material from the firebox.
3. Center the **STBN-14** on the fireplace floor. This should place the burner directly under the flue opening with a minimum of 4" from the open edges of the burner to the fireplace openings
4. Place the **grate** over the burner. The **SBN-GBB** bracket has enough clearance to receive one of the 5/8" grate legs. Mark the position of the grate and burner for reference points. Remove the grate and proceed with the gas connection. (See Figure 2)



SBN-GBB

Figure 2

## GAS CONNECTION

1. The gas supply line should be 1/2" Inside Diameter (ID) up to 30 feet and 3/4" for longer distance.
2. Use the **aluminum connector** to connect gas supply to the **regulator** on the **STBN assembly**. When bending aluminum tubing use proper bending procedures to avoid kinking the tube. **Do not use corrugated flexible tubing; it may cause a whistling noise.**
3. Read the Lighting Instructions. Light pilot and check for leaks using soapy water. The control is factory preset and will not normally require additional adjustment of the pilot flame. If field adjustment of the pilot flame is required, remove the pilot adjust cover screw to expose the adjusting screw. Turn the adjusting screw clockwise , to reduce flame, or counter clockwise , to increase flame. Replace pilot adjustment cover screw and tighten securely. Light main burner and check for leaks using soapy water. Check for adequate gas volume and flame height. Keep the glass doors fully open during all burning.

## BURNER PAN MEDIA

1. Fill the burner pan with burner media (sand). Burner media level should be sloped evenly with the sides of the burner. Place 2/3 of the PART A Embers on top of the media. Burner should be completely full.
2. Light the gas and observe flame for even distribution.
3. PART B Embers (rockwool) are placed over the media to simulate glowing embers. For best results, pinch off pieces of the Fire Embers the size of a dime and feather it out. Place as much as desired over the area the gas comes through. (See Figure 3)

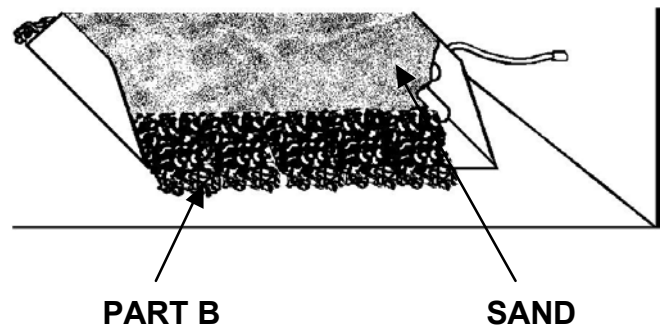


FIGURE 3

## PILOT LIGHT

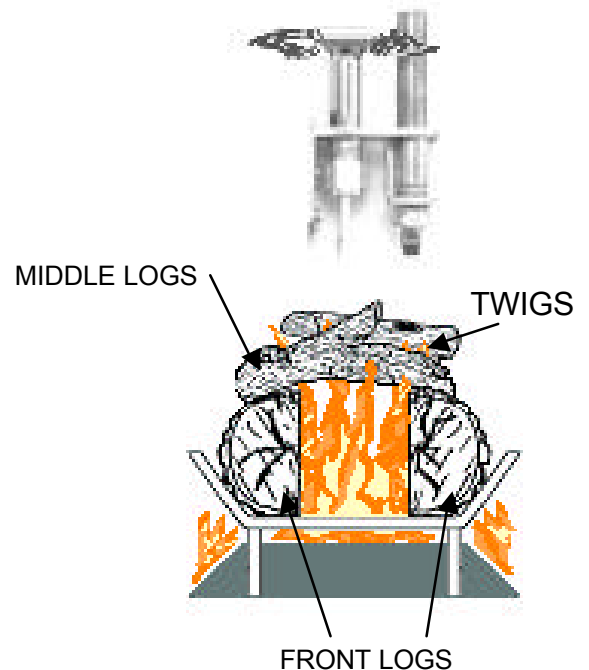
The pilot flame on the RSTPB-18 should be checked periodically to assure proper flame. On the BURNER, the flame should be on the vertical side of the burner and should be directed toward the thermocouple.

## GRATE PLACEMENT

Place the pedestal grate over the burner with one of the legs inside the SBN-GBB (burner to grate position bracket). The ember burner pan will now be positively positioned in relation to the grate.

## LOG PLACEMENT

The longest logs are front logs. They should be placed on the front/angled portion of the grate with the flat sides facing inward and toward each other. The 3/8" diameter paint dots should be pointing up. The top logs should be placed over the 3/8" diameter paint dots and positioned as shown on the log diagrams. (The last page of this manual)



## VOLCANIC CINDERS

The black volcanic cinders are used to cover the fireplace floor, fittings, and tubing around the burner system. Although not functional, the black cinders act as a picture frame to show off the glowing embers and yellow flame.

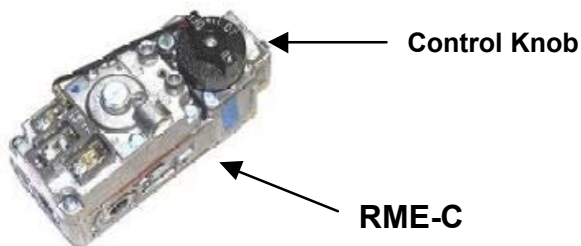
## FOR YOUR SAFETY READ BEFORE LIGHTING

**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. This appliance has a pilot, which must be lit by hand. When lighting the pilot, follow these instructions exactly.
  - B. **BEFORE LIGHTING:** smell around the appliance area for gas. Be sure to smell next to the floor because some gases are heavier than air and will settle on the floor.
  - C. 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, do not try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
  - D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and or gas control, which has been underwater.
  - E. Keep the appliance area clear and free from combustible materials, gasoline and other flammable liquids.
- WHAT TO DO IF YOU SMELL GAS:**
- \*Do not try 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.

## LIGHTING INSTRUCTIONS

1. **STOP!** Read the safety information above on this label.
2. Push in gas control knob slightly and turn clockwise to "OFF".



**NOTE:** Knob cannot be turned from "Pilot" to "OFF" unless knob is pushed in slightly. Do not force the knob.

3. Wait five minutes to clear out any gas. If you then smell gas. **STOP!** Follow "B" in the safety information above this label.

4. Find the pilot – follow the metal tube from the gas control to the side of the burner.



5. Turn knob on gas control counterclockwise to "PILOT".
6. Push in control knob all the way and hold in. Immediately light the pilot with a match. Continue to hold the control knob in for about one minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 3 – 7.
7. Turn gas control knob counterclockwise to "ON".

## LIGHTING INSTRUCTIONS

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

## LIMITED WARRANTY

### Refractory Logs

Hargrove gas logs carry a limited lifetime warranty against any manufactured defect or breakage when installed indoors. A replacement will be available from the dealer at which the appliance was purchased. This warranty does not cover breakage caused by excessive handling once installed and fired. Outdoor applications carry a one (1) year limited warranty.

### Burner & Grate

If the burner or grate fails due to deterioration within two (2) years of the verified purchase date, a free replacement will be made available from the dealer at which the appliance was purchased.

### Valves, Remote Controls, & Switching Devices

Hargrove warrants all valves, remote controls and switching devices against manufacturing defects, which appear within two (2) years of the verified purchase date. Warranty does not cover products that have been damaged by misuse from overheating. Before any product is returned a Return Goods Authorization number (RGA) must be issued by Hargrove's Customer Service Department. All returns must be accompanied by an explanation of the problem and all necessary parts.

### All Other Parts

If any assembled part should fail to operate or be found defective which appear within two (2) years of the verified purchase date, a replacement will be available from the dealer at which the appliance was purchased.

Buyer shall notify Hargrove Mfg Corp. of any defect covered by this warranty no later than thirty (30) days after defect is discovered. Failure to provide notice within thirty (30) days shall void the limited warranty.

## WHAT IS NOT COVERED

1. Removal and reinstallation costs.
2. Labor costs for replacement or repairs.
3. Transportation or shipping cost.
4. The cost of a service call to diagnose trouble.
5. Painted Surfaces.
6. Damage or defect caused by improper installation, accident, misuse, abuse, alteration, or authorized service technician.
7. Replacement of burner or combustion chamber resulting from improper storage of the appliance.

## LIMITATIONS AND EXCLUSIONS

1. No one has authority to add to or vary this limited warranty, or to create for Hargrove Manufacturing Corporation any other obligation or liability in connection with this appliance.
2. Any implied warranty applicable to this appliance is limited in duration to the same period of time as this written Warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.
3. HARGROVE MANUFACTURING CORPORATION WILL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, SPECIAL OR CONTINGENT DAMAGES YOU MIGHT SUFFER AS A RESULT OF A CLAIM UNDER THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusion may not apply to you.
4. This warranty applies only to the original purchaser and may not be transferred or assigned.
5. If you cannot verify the purchase date of the appliance, the warranty period will begin on the date of which the appliance was manufactured.
6. Replacement or repair parts are warranted for the remaining period of the original part warranty. Warranty parts must be obtained through authorized dealers of this product who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty.
7. The maximum liability of Hargrove Mfg Corp. in connection with this limited warranty shall not in any case exceed the contract price paid for the product claimed to be defective or unsuitable.
8. Purchaser or user agrees to hold Hargrove Mfg Corp. harmless from any and all claims by the buyer as a result of injury or damage to an ultimate user or other person caused by the product sold herein by the seller to the buyer, whether the injury or damage results from the assembly, installation, operation, shipment, storage, or manufacture of this product. Hargrove Mfg Corp. makes no warranties, expressed or implied, other than those expressly stated herein.

## YOUR DUTIES

This appliance must be installed by a qualified installer, operated and maintained in accordance with all applicable codes and the instructions furnished with the appliance. You must provide a receipt verifying the purchase date of the appliance when making a warranty claim with the dealer from which the appliance was purchased.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

**To register your Hargrove product, please visit our website at <http://www.hargrovegaslogs.com/reg.htm>.**

**CONTACT INFO: Hargrove Manufacturing Corp.**

**Tele: (800) 725-4166**