



INSTALLATION AND OPERATION GUIDE FOR

HARGROVE GAS LOGS

ROBERTSHAW MILLIVOLT SYSTEM (RMBE-FI)

NATURAL GAS



ADEQUATE FIREPLACE VENTILATION IS REQUIRED FOR SAFETY. GAS LOGS MUST BE INSTALLED BY PERSONNEL QUALIFIED FOR INSTALLING GAS APPLIANCES.

NOTE! READ INSTRUCTIONS FULLY BEFORE INSTALLING OR OPERATING.
INSTALLERS LEAVE THESE INSTRUCTIONS WITH THE CONSUMER!

Hargrove Manufacturing Corporation uses refractory material to create ceramic logs. Each log is hand finished to assure the most realistic, detailed log available. The gas log burner system is designed to burn like wood with a yellow smoky 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 obstructions or restrictions. The fireplace must be designed and approved to burn wood. The minimum permanent, free opening provided by the fireplace chimney must be 8" in diameter (50 square inches). The realistic yellow flame produces carbon monoxide and soot. Under normal conditions these products are exhausted up the chimney. If fumes or soot from the gas burning 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.

IT IS THE HOMEOWNERS RESPONSIBILITY TO ASSURE THEIR FIREPLACE HAS ADEQUATE DRAFT.

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.

ADEQUATE VENTILATION IS REQUIRED.

FOR YOUR SAFETY
 IF YOU SMELL GAS:

1. OPEN WINDOWS
2. DON'T TOUCH ELECTRICAL SWITCHES
3. EXTINGUISH ANY OPEN FLAMES
4. IMMEDIATELY CALL YOU GAS SUPPLIER

FLAMMABLE VAPORS MAY BE DRAWN BY AIR CURRENTS FROM OTHER AREAS OF YOUR HOUSE TO THIS APPLIANCE.

FOR YOUR SAFETY
 DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VACINITY OF THIS OR ANY OTHER APPLIANCE.

THE SIZE CHART BELOW INDICATES THE MINIMUM SIZE FIREPLACE OPENINGS IN WHICH DIFFERENT SIZE GAS LOG SETS CAN BE INSTALLED.

FIREPLACE SIZES

GAS LOG SET SIZE	DEPTH	FRONT WIDTH
36"	15"	40"
42"	15"	46"
48"	15"	52"



GENERAL INFORMATION

DO NOT USE A NATURAL GAS SET FOR PROPANE OR A PROPANE SET FOR NATURAL GAS. WHEN USING PROPANE (LPG) GAS AN AUTOMATIC PILOT SYSTEM MUST BE INSTALLED.

1. There are many different local codes for gas fire logs. The installation of this set must conform with local codes or, in the absence of local codes, to the National Fuel Gas Code ANSI Z223.1 1999.
2. **This log set includes an orifice specific for use with Natural Gas. Failure to operate the appliance without the orifice will void the manufacturer's warranty.**
3. When glass fireplace doors are used, always operate gas log set with the doors fully open to allow for proper combustion air.
4. A fire screen must be in place when the log set is in use.
5. The appliance and its individual shut off valve must be disconnected from the gas supply piping system at test pressures in excess of ½ psig. The appliance must be isolated from the gas supply piping system by closing its individual manual shut off valve during any pressure testing of gas supply system at test pressures equal to or less than ½ psig.
6. Minimum inlet supply pressure for Natural Gas is 7" water column. Maximum inlet supply pressure for Natural Gas is 10 ½" water column.
7. After burning, the logs become fragile and should not be handled. Knocking or rubbing logs can cause concrete to crumble and is not covered under the warranty.
8. Use a soft, dry paintbrush for periodic dusting of the gas fire logs. Special care must be taken to clean the birch logs. Rubbing will remove soot but will also remove the white pigments.
9. **Do not burn wood with this set.**

NOTE: PERSONNEL QUALIFIED TO INSTALL GAS APPLIANCES MUST INSTALL GAS LOGS.

INSTALLING YOUR HARGROVE GAS LOGS

Remove all the parts from the shipping container. Your set includes the following parts:

<u>PART NUMBER</u>	<u>36" Sets</u>	<u>42" Sets</u>	<u>48" Sets</u>
1. Pedestal Grate	PG-30	PG-36	PG-36
2. Ember Burner	EB-26	EB-31	EB-31
3. 1/2" x 3/8" Reducing Elbow	49-6-8 (2)	49-6-8 (2)	49-6-8 (2)
4. 1/2" x 3/8" Reducing Elbow	50-6-8 (2)	50-6-8 (2)	50-6-8 (2)
5. 3" Stainless Steel Connector	SC-3	SC-3	SC-3
6. 3/4" x 1/2" Bushing	PRB 12-8	PRB 12-8	PRB 12-8
7. Volcanic Cinders	VC-3	VC-3	VC-3
8. Silica Sand	SD-10	SD-10	SD-10
9. 18" Aluminum Connector	AC-18	AC-18	AC-18
10. Thermopile/Burner Assy.	RSTPGNG-18	RSTPGNG-18	RSTPGNG-18
11. RMBE-Control Heatshield	HS-425	HS-425	HS-425
12. Safety Control Millivolt Valve	RMBE-C	RMBE-C	RMBE-C
13. 20' 18 Gauge Bell Wire			
14. WS/CP	Wall Switch/Cover Plate	Wall Switch/Cover Plate	Wall Switch/Cover Plate
15. EM	Embers	Embers	Embers



EMBER BURNER POSITIONING

1. Turn gas **off**.
2. Remove old log lighter, ashes, and other material from the firebox.
3. Center the **ember burner** on the fireplace floor with the burner pipe completely visible from the front. For best results, the ember burner should be directly under the flue opening with a minimum of 4" from the front edge of the ember burner to the fireplace opening.
4. Place the **grate** over the ember burner so the front legs of the grate are just in front of the burner pipe.

(See Figure 2)

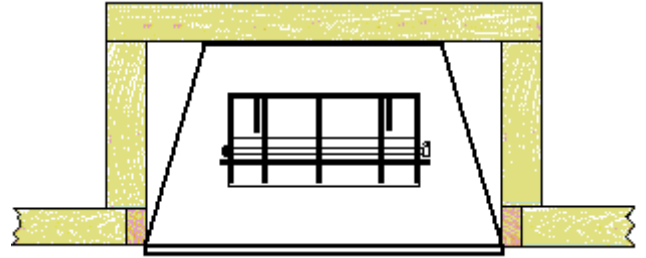


Figure 2

SWITCHING DEVICE INSTALLATION

1. To install a wall switch, mount a standard 3" x 2" electrical box in the wall near the fireplace. Run the thermostat wire (18 gauge wire) from the electrical box to the millivolt valve. At the valve, connect the lead wires to the two outside terminals labeled "TH". On the switch, connect the lead wires to each terminal of wall switch or optional switching device.

*Optional switching devices include:

Remote Control, Pine Cone Switch and Bark Chip Switch

(See Figure 3)

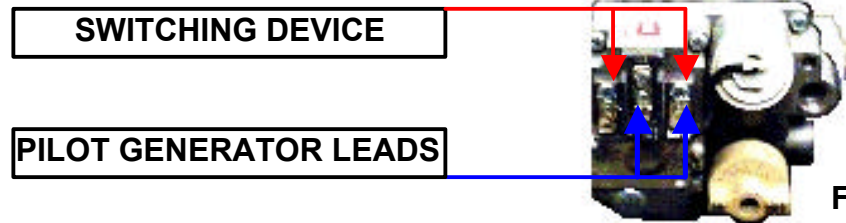


Figure 3

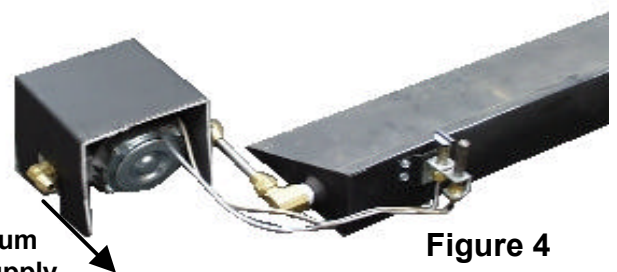
GAS CONNECTION

1. The gas supply line should be 1/2" inside diameter (ID) up to 30 feet and 3/4" for longer distances.
2. Tighten the **50-6-8 brass elbow** to the end of the inlet gas supply pipe.
3. Use the **AC-18 18" aluminum connector** to connect the gas supply to the RMBE-C inlet. When bending the aluminum tubing use proper bending procedures to avoid kinking the tube.
4. Check all connections for leaks using a soapy water solution.

Damper must remain fully open during operation.

(See Figure 4)

5. Push in gas control knob and turn to "PILOT".
6. Turn Push in control knob all the way and hold it in. Immediately light the pilot with a match. Do not hold the match in your hand while lighting the gas. After the pilot is proofed, continue to hold control knob in for 45 seconds. Release the knob, the knob should pop back up, and assure that the pilot flame did not extinguish. If the pilot flame did extinguish, repeat steps 4 through 8.
7. Turn the gas control knob to "ON". The gas should ignite. Check the flame for even distribution, flame height, and color. Adjust the air shutter until all the flames have died. Keep the glass doors fully



Connect with 18" Aluminum
Connector to Inlet gas supply

Figure 4

BURNER PAN MEDIA

1. Fill the burner pan with **silica sand**. Sand level should be sloped evenly with the sides of the ember burner.
2. **Part B Embers** (rockwool) are placed over the sand to simulate glowing embers. For best results pinch off pieces of the Part B material the size of a dime and feather it out. Place as much as desired over the area the gas comes through. Burner should be completely full and level.
3. Light the gas and observe flame for even distribution. After checking the flame, turn off the fire. (Turn the gas valve to the **off** position to turn the fire off.) Do not close the damper until all the flames have died. Keep the glass doors fully open during all burning.
4. Sprinkle the **Part A Embers** on top of the Part B Embers and can be sprinkled on the cinder for effect.

(See Figure 5)

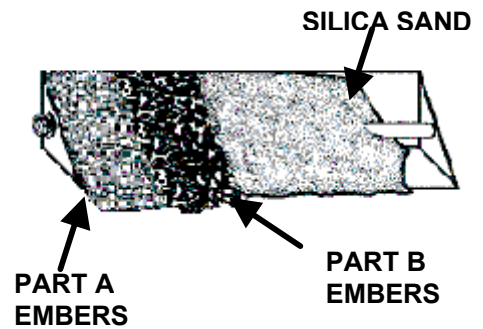


Figure 5

LOG PLACEMENT

1. The longest log is the **front log**. It should be placed on the front of the grate with the flat, unfinished side facing the back. It is essential for this log to be positioned with the flat, unfinished side being straight up and down. (If the logs are laid flat on the grate the safety pilot control parts will overheat and shut the system off.)
2. The second longest log is the **back log**. It is positioned on the back pedestal of the grate with the flat side down.
3. The remaining logs are **top logs**. These logs are placed diagonally across the bottom logs and can be arranged to create the most realistic flame patterns.

(See Figure 6)

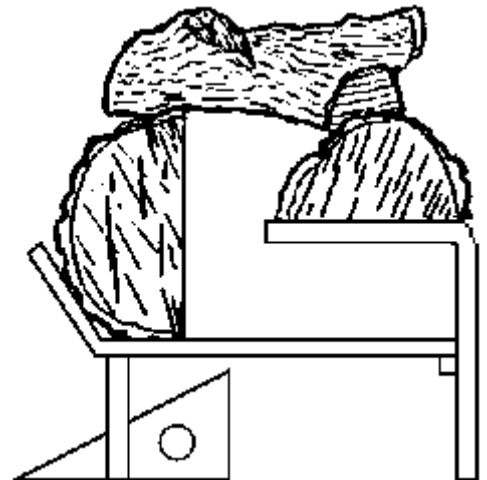


Figure 6

VOLCANIC CINDERS

1. 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.
2. The remaining 1/3 **Part A Embers** can now be spread over the volcanic cinders to look like additional fallen ash under the logs.

FOR YOUR SAFETY

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 system or gas control that has been under water.

Keep this appliance clear and free from combustible materials, gasoline and other flammable vapors and liquids.

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.

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