



INSTALLATION AND OPERATION GUIDE FOR

HARGROVE GAS LOGS

SEE THRU (ST)

NATURAL GAS



NOTE:

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

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.

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

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

FIREPLACE SIZES

GAS LOG SET SIZE	DEPTH	FRONT WIDTH
18"	22"	22"
24"	22"	28"
30"	22"	34"
36"	22"	42"

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.

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 is designed for use with Natural Gas.**
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 10½" 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:

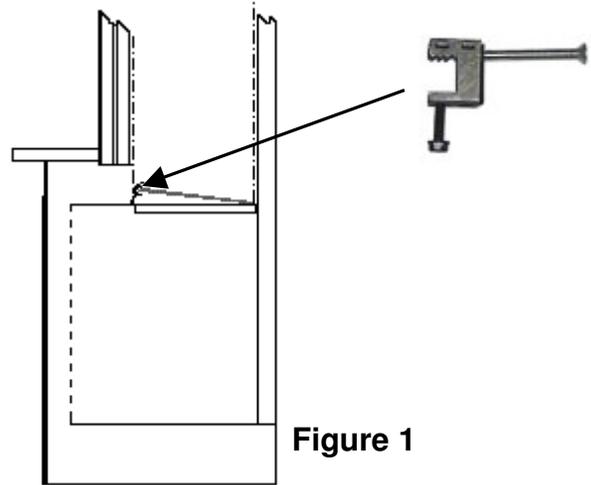
<u>Number by Set</u>	<u>16"-21" Sets</u>	<u>24"-27" Sets</u>	<u>28"-30 Sets</u>	<u>36" Sets</u>
1. See Thru Grate	STG-16	STG-20	STG-25	STG-30
2. See Thru Burner	(2) EB-14	(2) EB-18	(2) EB-22	(2) EB-26
3. Sand	(2) SD-10	(2) SD-10	(2) SD-10	(4) SD-10
4. Fire Embers	(2) RW	(2) RW	(2) RW	(4) RW
5. Concentric Pilot Control (Optional)	CPC-C	CPC-C	CPC-C	CPC-C
6. Aluminum Connector	(2)AC-18	(2)AC-18	(2)AC-18	(2)AC-18
7. Damper Stop (optional)	DS	DS	DS	DS
8. Volcanic Cinders	(2) VC	(2) VC	(2) VC	(4) VC
9. Brass Cap	PPH-6	PPH-6	PPH-6	PPH-6
10. Brass Elbow	49-6-6Z2	49-6-6Z2	49-6-6Z2	49-6-6Z2
11. Standard Orifice	46-6-8	46-6-8	46-6-8	46-6-8



DAMPER STOP (Optional)

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 a minimum of 3”.



EMBER BURNER POSITIONING

1. Turn gas **off**.
2. Remove old log lighter, ashes, and other material from the firebox.
3. Center the **ember burners** 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. (See Figure 2)
4. Center the **grate** over the ember burners. Once the final positioning is established, mark the burner and grate position on the floor of the fireplace for reference points. Remove the grate and proceed with the gas connection.

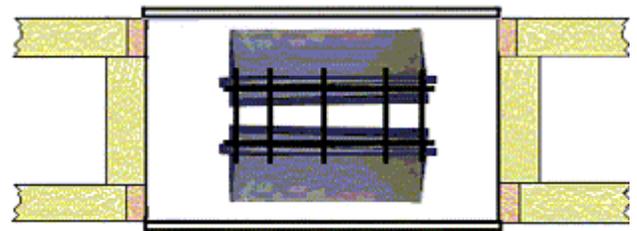


Figure 2

GAS CONNECTION

1. The gas supply line should be ½” inside diameter (ID) up to 30 feet and ¾” for longer distances.
2. Tighten the **black pipe cap** on the end of the burner pan pipe.
3. Use the **aluminum connector** to connect the gas supply to the ember burner. When bending the aluminum tubing use proper bending procedures to avoid kinking the tube. (If a safety pilot control is used follow the instructions included for connecting the gas to the pilot control)
4. Check all connections for leaks using a soapy water solution.
5. Damper must remain fully open during operation. Place a lighted match next to the burner pipe. Do not hold the match in your hand while lighting the gas. Turn the gas supply on slowly until the gas ignites. Check the flame for even distribution, flame height, and gas pressure. 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.

BURNER PAN MEDIA

1. Fill the burner pan with **Sand**. Sand level should be sloped evenly with the sides of the ember burner.
2. **Part B Embers** (rockwool) are placed over the vermiculite 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.
(See Figure 3)

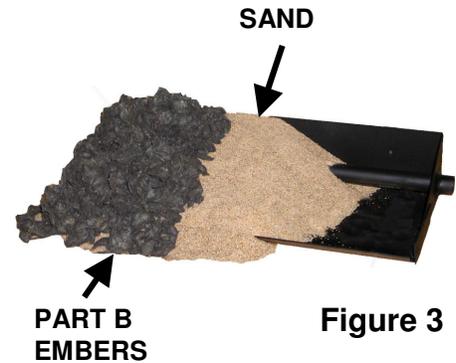


Figure 3

Refer to the **Pilot Control Lighting Instructions** if installing a **Safety Pilot Control** inside or outside the fireplace.

GRATE PLACEMENT

Place the **grate** over the ember burner using the reference marks made on fireplace floor earlier.

LOG PLACEMENT

1. The longest two logs are the **front logs**. They should be placed on the front of the grate with the flat, unfinished side facing towards the middle. It is essential for these logs 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 **middle log**. It is positioned on top of the **support block** 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 4)

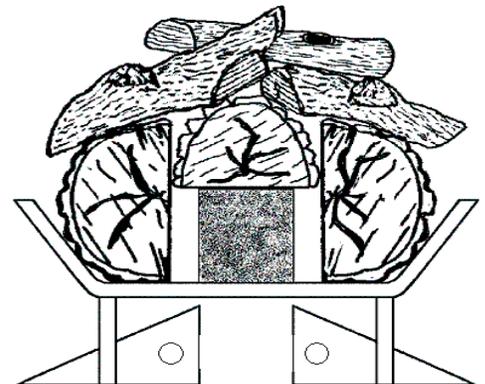


Figure 4

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

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.



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FIREPLACE SIZES

GAS LOG SET SIZE	DEPTH	FRONT WIDTH
18"	17"	22"
24"	17"	28"
30"	17"	34"

GENERAL INFORMATION

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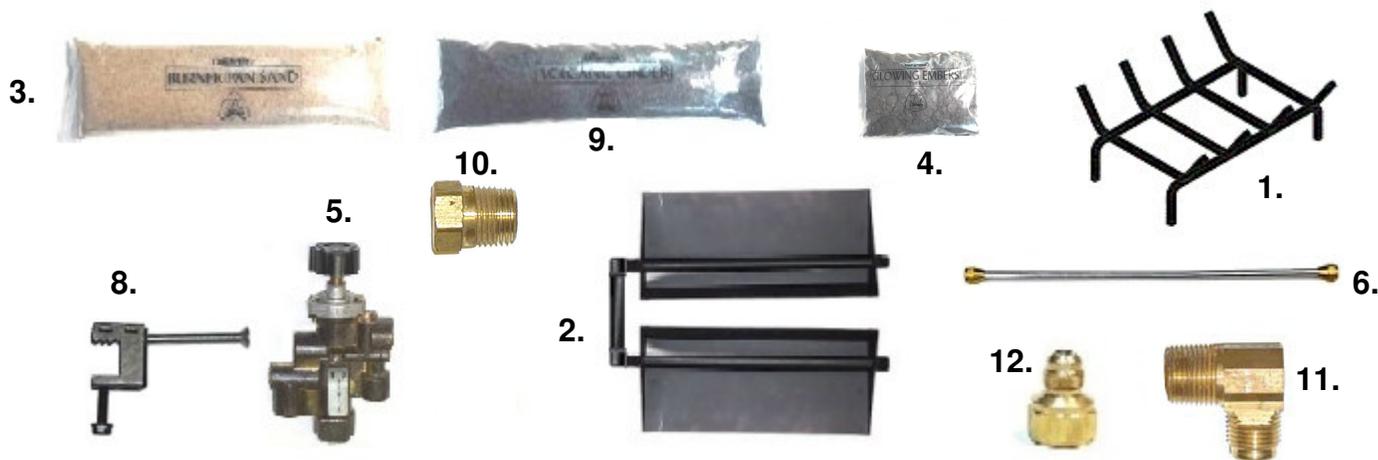
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3. When glass fireplace doors are used, always operate gas log set with the doors fully open to allow for proper combustion air.
4. A fire screen must be in place when the log set is in use.
5. The appliance and its individual shut off valve must be 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:

Number by Set	16"-21" Sets	24"-27" Sets	28"-30 Sets
1. See Thru Narrow Grate	STGN-16	STGN-20	STGN-25
2. See Thru Narrow Burner	(2) EB-14 w/PIPE	(2) EB-18 w/PIPE	(2) EB-22 w/PIPE
3. Silica Sand	(2) SD-10	(2) SD-10	(2) SD-10
4. Fire Embers	(2) RW	(2) RW	(2) RW
5. Safety Pilot Control (Optional)	CPC	CPC	CPC
6. Aluminum Connector	AC-18	AC-18	AC-18
7. Fire Logs	*Number of logs are determined by the set size. Logs not illustrated.		
8. Damper Stop (optional)	DS	DS	DS
9. Volcanic Cinders	(2) VC	(2) VC	(2) VC
10. Brass Cap	PPH-6	PPH-6	PPH-6
11. Brass Elbow	49-6-6Z2	49-6-6Z2	49-6-6Z2
12. Standard Orifice	46-6-8	46-6-8	46-6-8



DAMPER STOP (Optional)

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 a minimum of 3".

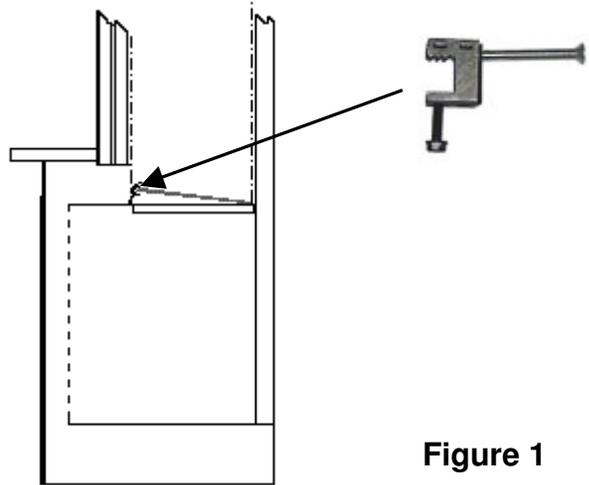


Figure 1

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. Center the **grate** over the ember burners. Once the final positioning is established, mark the burner and grate position on the floor of the fireplace for reference points. Remove the grate and proceed with the gas connection.
(See Figure 2)

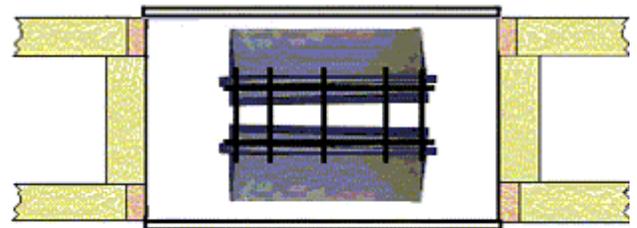


Figure 2

GAS CONNECTION

1. The gas supply line should be 1/2" inside diameter (ID) up to 30 feet and 3/4" for longer distances.
2. Tighten the **black pipe cap** on the end of the burner pan pipe.
3. Use the **aluminum connector** to connect the gas supply to the ember burner. When bending the aluminum tubing use proper bending procedures to avoid kinking the tube. (If a safety pilot control is used follow the instructions included for connecting the gas to the pilot control)
4. Check all connections for leaks using a soapy water solution.
5. Damper must remain fully open during operation. Place a lighted match next to the burner pipe. Do not hold the match in your hand while lighting the gas. Turn the gas supply on slowly until the gas ignites. Check the flame for even distribution, flame height, and gas pressure. 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.

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.

(See Figure 3)

Refer to the **Pilot Control Lighting Instructions** if installing a **Safety Pilot Control** inside or outside the fireplace.

GRATE PLACEMENT

Place the **grate** over the ember burner using the reference marks made on fireplace floor earlier.

LOG PLACEMENT

1. The longest logs are the **front logs**. Each should be placed on the front edge of the grate with the flat, unfinished side facing towards the middle. It is essential for these logs 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 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 4)

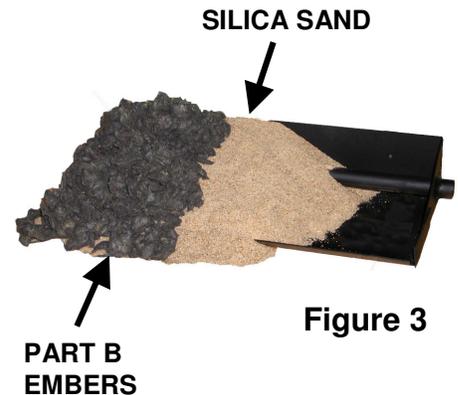


Figure 3



Figure 4

VOLCANIC CINDERS

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