



Tested &
Listed By



C US

Z21.60 2012
Vented Decorative Appliances
for installation in Solid Fuel
Burning Fireplaces

**24&30" DBRNL-60 REMOTE CONTROL GAS LOG
VENTED DECORATIVE APPLIANCE
BURNER SYSTEM**

For Use With Log Set Models:

VMO24RNGA (SHOWN)

MO24DBRNL-60

SH24DBRNL-60

BRO24DBRNL-60

CS30DBRNL-60

Convertible from Natural Gas to Propane/LP Gas

OWNER'S OPERATION AND INSTALLATION MANUAL

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

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

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

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SAFETY

⚠ WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency, or the gas supplier.

⚠ WARNING: This appliance is for installation only in a solid-fuel burning masonry or UL127 factory-built fireplace, constructed of noncombustible material, and connected to a working flue. (See page 5 for minimum flue opening.)

⚠ WARNING: This is a gas-fired appliance. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to the *National Fuel Gas Codes, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation*.

⚠ WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects, or other reproductive harm.

⚠ WARNING: Keep flue open when operating unit.

IMPORTANT: Read this owner's manual carefully and completely before trying to assemble, operate, or service this log set. Improper use of this log set can cause serious injury or death from burns, fire, explosion, electrical shock, and carbon monoxide poisoning.

⚠ DANGER: Carbon monoxide poisoning may lead to death!

Carbon Monoxide Poisoning: Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, or nausea. If you have these signs, the log set may not be working properly. **Get fresh air at once!** Have log set serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

Natural and Propane/LP Gas: Natural and propane/LP gases are odorless. An odormaking agent is added to the gas. The odor helps you detect a gas leak. However, the odor added to the gas can fade. Gas may be present even though no odor exists.

Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to safe and proper operation of this log set.

⚠ WARNING: Any change to this log set or its controls can be dangerous.

1. This appliance, as supplied, is only for use with the type of gas indicated on the rating plate. This appliance is convertible for use with propane/LP. (see *Conversion Instruction, P.7*)
2. What to do if you smell gas:
 - **Shut off gas supply.**
 - 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.
3. Never install the log set:
 - In a recreational vehicle
 - Where curtains, furniture, clothing, or other flammable objects are less than 42" from the front, top, or sides of the log set
 - In high traffic area
 - In windy or drafty areas

SAFETY

Continued

4. You must operate this log set with fireplace screens in place and fully closed. Unless provided by other means, fireplace doors or screens shall have openings for introduction of combustion air.
5. This log set is designed to be smokeless. If logs ever appear to smoke, turn off appliance and call a qualified service person.
Note: During initial operation, slight smoking could occur due to log curing and the burning off of manufacturing residues. You may wish to add more ventilation by opening a window.
6. To reduce the creation of soot, follow the “Cleaning and Maintenance” instructions on page 19.
7. Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns. Ceiling fans can create drafts that alter burner flame patterns. Altered burner patterns can increase sooting.
8. Do not use a blower insert, heat-exchanger insert or other accessory not approved for use with this log set.
9. The installation and provisions for combustion and ventilation air must conform with the National Fuel Gas Codes, ANSI Z233.1/NFPA 54, Air for Combustion and Ventilation.
10. Do not run log set:
 - where combustible materials, gasoline and other flammable vapors and liquids are used or stored
 - under dusty conditions
11. Do not burn solid fuel in the fireplace after installing the log set. Do not use this log set to cook food or burn paper or other objects.
12. Log set becomes very hot when in use. Keep children and adults away from hot surface to avoid burns or clothing ignition. Log set will remain hot for a time after shut-down. Allow surface to cool before touching.
13. Carefully supervise young children when they are in the room with log set.
14. 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 any gas control which has been under water.
15. To help prevent breakage, new logs must be broken-in (see “Curing Logs” page 18).
16. Turn log set off and let cool before servicing, installing, or repairing. Only a qualified service person should install, service, or repair log set.
17. Provide adequate clearances around air openings.

PRODUCT IDENTIFICATION

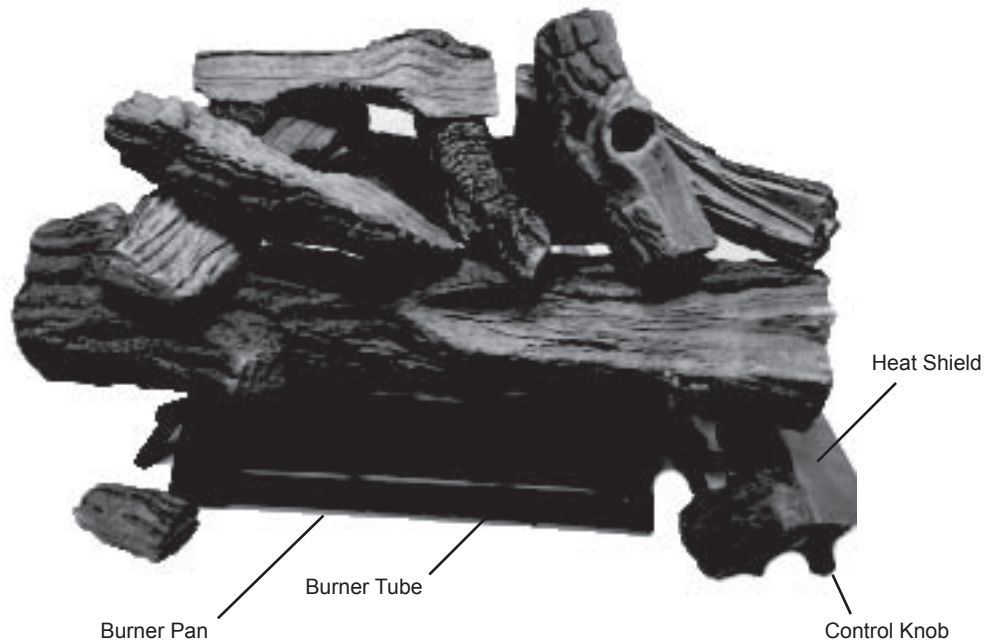


Figure 1 - Product Identification - VMO24RNGA Shown

LOCAL CODES

Install and use log set with care. Follow all local codes. In the absence of local codes, use the latest edition of *The National Fuel Gas Code ANSI-Z223.1/NFPA 54**.

*Available from:
American National Standards Institute, Inc.
1430 Broadway
New York, NY 10018
National Fire Protection Association, Inc.
Batterymarch Park
Quincy, MA 02269

UNPACKING

⚠ CAUTION: Do not remove the metal data plates from the burner pan. The data plates contain important warranty and safety information.

1. Remove logs, hearth kit, pan materials, and hardware from carton.
2. Remove all protective packaging applied to logs and base for shipment.
3. Check appliance for any shipping damage. If it is damaged call Sure Heat Manufacturing at 1-800-229-5647 for replacement parts before returning to dealer.

PRODUCT FEATURES

REMOTE CONTROL SAFETY VALVE/PILOT

This unit is provided with a remote gas control valve which is connected to a wireless transmitter/receiver set, allowing safe operation from anywhere in the room.

APPROVALS

Unit is tested and approved to *ANSI Z21.60* as a vented decorative appliance. It is supplied with the parts and instructions to convert to propane/LP gas use.

INSTALLATION

⚠ WARNING: The Massachusetts State Board requires all installations be performed by a Licensed Plumber or Gas Fitter. Massachusetts state code requires all vent dampers be welded open or removed.

⚠ CAUTION: Do not remove the data plates attached to the burner pan. The data plates contain important warranty and safety information.

⚠ WARNING: Before installing in a solid fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. A dirty chimney flue may create and distribute soot within the house. Inspect chimney flue for damage.

NOTICE: Installation, service, and repair of this appliance must be performed by a qualified installer, service agency, company or gas supplier, experienced with this type of gas appliance. Only factory authorized components should be used, in accordance with the manufacturer's instructions and all codes and requirements of the authority having jurisdiction. Any modifications to this kit, or use of unauthorized components or accessory items will void the manufacturer's warranty, and may result in a hazardous condition.

VENTING SPECIFICATIONS FOR INSTALLATION

The fireplace chimney flue and vent must be drafting properly. To check the vent for proper drafting: Light a tightly rolled newspaper on one end and place it at the inside front edge of the fireplace. Observe the smoke and be sure the vent is properly drawing it up the chimney. If the smoke spills out into the room, extinguish the flame and remove any obstruction until proper venting is achieved.

FLUE OPENING SPECIFICATIONS

Note: This vented appliance must be installed only in a solid-fuel burning fireplace with a working flue and constructed of noncombustible material.

The chimney flue damper must be fixed open to provide a minimum of 81 sq. in. of free air opening during operation of this log set. A multipurpose damper clamp is provided to fix the damper in position.

The minimum flue sizes shown in *Figure 2, Page 5* are based on a 6' chimney height using round pipe. Your minimum flue size will vary based on input rate and chimney height. Refer to the ***National Fuel Gas Code ANSI Z223.1/NFPA 54, Section 6.6***, for details.

INSTALLATION

Continued

The charts in Figure 2 indicate technical information regarding the installation of your gas log set. Please make sure that all of the specifications shown are applicable before installation is attempted.

The fireplace must include a working flue and venting system with the minimum openings shown in the Figure 2.

MINIMUM FIREBOX SIZE					
LOG SIZE	FRONT WIDTH	BACK WIDTH*	DEPTH	HEIGHT	MINIMUM FLUE SIZE
24"	35 3/4"	17"	15 1/2"	18"	8" dia.

FUEL PRESSURE SPECIFICATIONS (W.C.)		
	Inlet	Manifold*
NG	5.5"-10.5"	3.5"
LP	11"-13"	10"

* ± .2"

DESCRIPTION	Btu/Hr Input Natural Gas	Btu/Hr Input Propane Gas
24" Dual Burner	60,000	60,000

BURNER ORIFICE					
LOG SIZE	NATURAL			PROPANE/LP	
	In.	Num.		In.	Num.
24"	.144	#27		.089"	#43

Figure 2 - Technical Information Charts

CONNECTING TO GAS SUPPLY

WARNING: A qualified service person must connect log set to gas supply. Follow all local codes.

Installation Items Needed

Before installing log set, make sure you have the items listed below.

- piping (check local codes)
- sealant (resistant to propane/LP gas)
- equipment shutoff valve
- adjustable (crescent) wrench or pliers
- sediment trap
- tee joint
- pipe wrench

CAUTION: Use only new, black iron or steel pipe. Internally-tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of 1/2" diameter or greater to allow proper gas volume to log set. If pipe is too small, undue loss of volume will occur.

CHECK GAS TYPE

Use only natural gas. If your gas supply is not natural gas, you must convert the appliance to propane /LP. Follow the instructions on page 7.

If the fireplace does not have a gas supply shutoff valve, one must be installed.

INSTALLING DAMPER CLAMP

Secure the damper stop clamp provided to the leading edge of the damper as shown in Figure 3. If for any reason this clamp doesn't work on your fireplace, another suitable clamp or permanent stop must be installed, or the damper blade must be cut or removed.

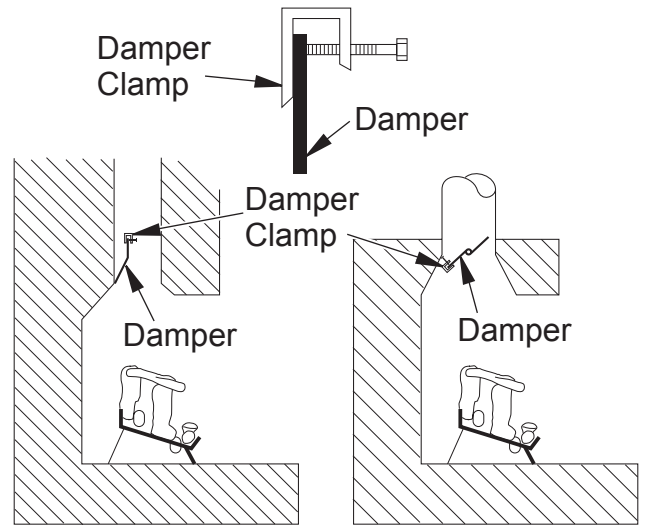


Figure 3 - Attaching Damper Clamp

CONNECTING TO GAS SUPPLY

Continued

Installation must include an equipment shutoff valve with "T" style handle, gas union and, for propane/LP gas only, a plugged 1/8" NPT pressure tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from log appliance (see Figure 4 on Page 6).

IMPORTANT: Install equipment shutoff valve in an accessible location. The equipment shutoff valve is for turning on or shutting off the gas to the appliance.

Apply pipe joint sealant lightly to male NPT threads. This will prevent excess sealant from going into pipe. Excess sealant in pipe could result in a clogged burner injector.

WARNING: Use pipe joint sealant that is resistant to liquid petroleum (LP) gas.

INSTALLATION

Continued

We recommend that you install a sediment trap in the supply line as shown in Figure 4. Locate sediment trap where it is within reach for cleaning. Install in piping system between fuel supply and heater. Locate sediment trap where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into log set controls. If sediment trap is not installed or is installed wrong, log set may not run properly.

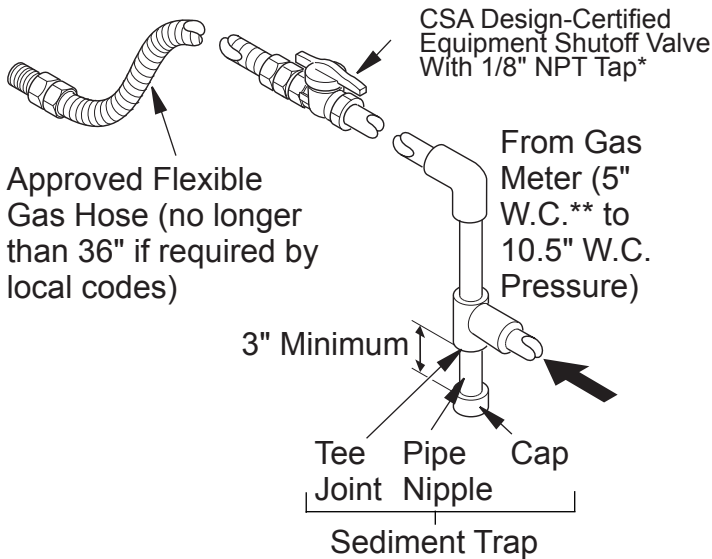


Figure 4 - Gas Connection

* Purchase the optional CSA design-certified equipment shutoff valve from your dealer. ** Minimum inlet pressure for purpose of input adjustment.

CHECKING GAS CONNECTIONS

WARNING: Test all gas piping and connections, internal and external to unit, for leaks after installing or servicing. Correct all leaks at once.

WARNING: Never use an open flame to check for a leak. Apply a noncorrosive leak detection fluid to all joints. Bubbles forming show a leak. Correct all leaks at once.

PRESSURE TESTING GAS SUPPLY PIPING SYSTEM

Test Pressures In Excess Of 1/2 PSIG (3.5 kPa)

1. Disconnect log set and its individual equipment shutoff valve from gas supply piping system.
2. Cap off open end of gas pipe where equipment shutoff valve was connected.
3. Pressurize supply piping system by either using compressed air or opening main gas valve located on or near gas meter.

4. Check all joints of gas supply-piping system. Apply a noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
5. Correct all leaks at once.
6. Reconnect log set and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

Test Pressures Equal To or Less Than 1/2 PSIG (3.5 kPa)

1. Close equipment shutoff valve (see Figure 5).
2. Pressurize supply piping system by either using compressed air or opening main gas valve located on or near gas meter.
3. Check all joints from gas meter to equipment shutoff valve (see Figure 5). Apply a noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
4. Correct all leaks at once.

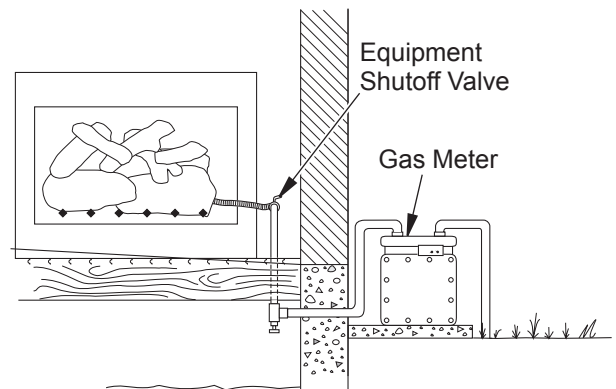


Figure 5 - Checking Gas Joints

HEARTH PAN INSTALLATION

If using propane/LP gas, see *Propane/LP Gas Conversion* page 7 before installing hearth pan.

1. Place the burner pan assembly in the center of the fireplace floor. Make sure the front of pan faces forward.
2. Thread the gas supply fitting to the fire place gas supply pipe. Adjust to most convenient position.
3. Install the gas connector tube to the gas supply adapter. Carefully shape tube and attach to gas inlet fitting (see Figure 6 on Page 7). Be careful not to cause kinks in tube.
4. Test for leaks following instructions under *Testing Burner for Leaks*, page 8.

INSTALLATION

Continued

- Retighten and adjust the location of the gas control as necessary. The gas control should be level, with the control knob to the front.

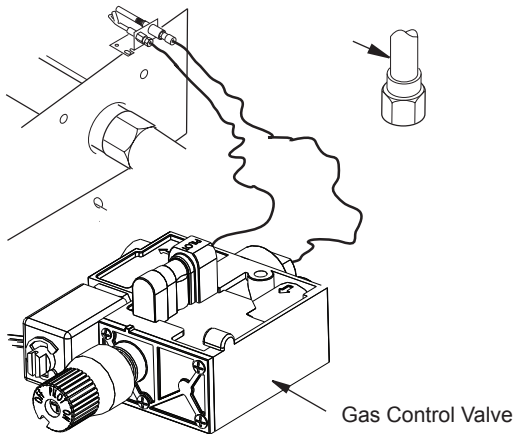


Figure 6 - Installing Inlet Fitting and Gas Connector Tube (Heat Shield Removed for Clarity)

SELECTING GAS TYPE

This appliance can be used with Propane/LP gas or Natural Gas. It is shipped from the factory adjusted for use with Natural Gas. Main burners are equipped with fixed orifices, located at the inlet of the burner pan (see Figure 7).

⚠ WARNING: Only a qualified installer or service technician can perform gas conversion and connection to gas supply.

Propane/LP Gas Conversion

To convert to Propane/LP gas, the regulator pressure must be reset. Also, burner inlet fitting and pilot orifice must be replaced. The Propane/LP burner inlet fitting is supplied with the orifice installed for your log set.

Burner Inlet Fitting

- Remove pilot assembly burner pan by removing two screws on bracket.
- Unthread control valve and burner inlet fitting from burner tube by turning valve counterclockwise (see Figure 7).
- Remove Natural Gas inlet fitting from control valve assembly (see Figure 8). DO NOT remove orifice from this fitting. The Propane/LP burner inlet fitting is provided in the hardware kit (see Figure 8). Retain the removed Natural Gas components for future use.

Be sure to use the correct orifice for your appliance. The orifice kit included with this appliance contains an orifice installed in an air mixer fitting.

- Using thread sealant (resistant to the action of propane/LP gas) on smaller end of fitting, screw the burner inlet fitting into outlet side of gas control. Tighten using a wrench.
- Rethread valve and fitting assembly into burner tube until fully threaded and level with burner pan. Reattach valve cover with two (2) screws.

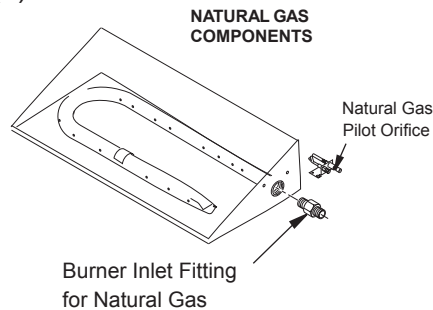


Figure 7 - Burner Inlet Fitting and Pilot Orifice

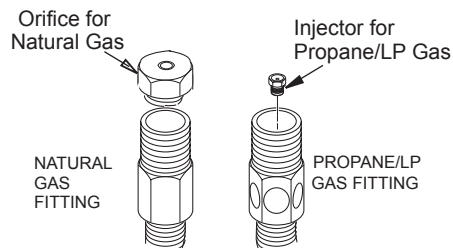


Figure 8 - Burner Inlet Fittings shown with orifice

Pilot Orifice Replacement

Disconnect the pilot supply tube from the pilot (See Figure 7). Replace the pilot orifice with the Propane/LP pilot orifice included with the Gas conversion kit. Retain the removed orifice for future use.

NG to LP Regulator Selection

The appliance regulator can be converted from Natural Gas to LP/gas. If connecting to a Propane gas system, the regulator must be switched prior to use. Follow the steps below to select Propane/LP gas.

- Carefully remove the logs from the burner assembly.
- Make sure gas is turned off to the unit and disconnect burner assembly from gas line. Remove burner assembly from fireplace or firebox.
- Locate the regulator cap on the appliance regulator (see Figure 9 on Page 8) Unscrew by hand and remove the cap from the regulator. (The pressure selecting screw is attached to the regulator cap.) The pressure selecting screw is supplied in the Natural Gas position.
- Unscrew and remove the pressure selecting screw from the regulator cap (see Figure 9).

INSTALLATION

Continued

- Turn pressure selecting screw over and reinstall it in regulator cap (see *Figure 10-11*). This will set the pressure selecting screw to the LP/Propane gas position. Make sure the pressure selecting screw is installed tightly to the regulator cap.
- Replace the regulator cap on the appliance regulator.

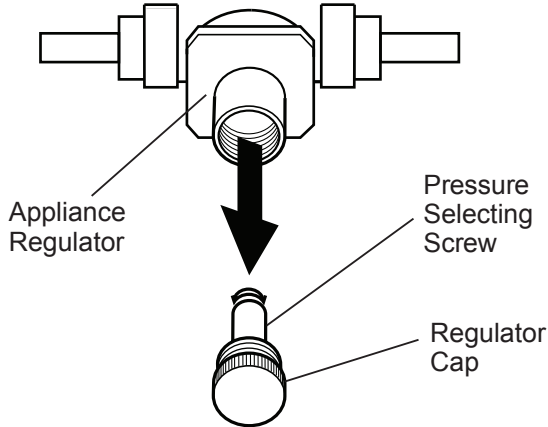


Figure 9 - Gas Selection Valve Knob and Regulator Cap

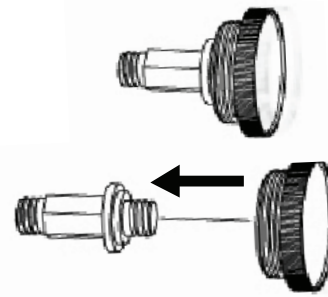


Figure 10 - Removing Regulator Cap from Pressure Selecting Screw



Figure 11 - Turning Pressure Selecting Screw Over/Attaching to Regulator Cap – LP/Propane Gas Position

NOTE: In order to convert the unit from LP Gas, back to Natural Gas, follow steps 1 through 3 under “*Burner Inlet Fitting*” on Page 7. Follow steps 1 through 6 under the heading of “**NG to LP Regulator Selection**” on this page. *Images 10 and 11* will occur in reverse order.

Testing Burner for Leaks

- Generously apply soapy solution to all connections.

⚠ WARNING: Never check for gas leaks with open flame.

- Light burner with shutoff valve no more than half open and holding a match slightly in front of pan (see *Lighting Instructions*, page 17).
- Inspect all connections for bubbles, raw gas odor, or flame from any area other than the burner (leaks). If leaks are detected, shut off gas valve immediately, tighten, or reassemble loose connection(s) using pipe joint compound until burner system is leak free.
- When burner is tested and leak free, observe individual tongues of flame on burner (from ports).

Note: Make sure that all ports are clear and producing flame evenly across burner. If any ports appear blocked, clear them by removing burner manifold and

reaming ports with a modified paper clip or other suitable tool. When finished testing, turn gas shutoff valve to OFF to extinguish all flames.

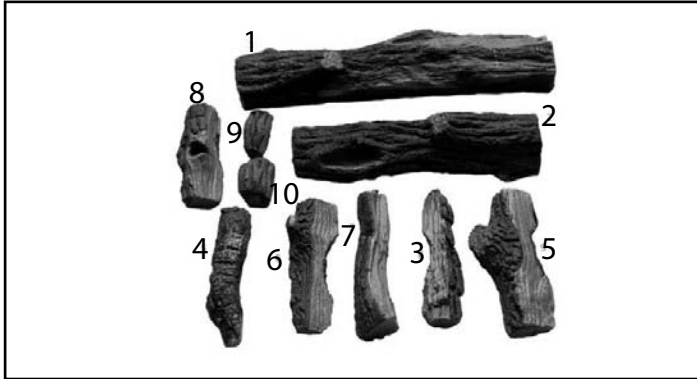
Adding Burner Media Material

- Open bag of burner media material (vermiculite if set for LP/Propane) and spread it evenly across burner pan to the top. You may overflow front and sides of pan to cover entire pan. Do not cover valve.
- Open glowing embers and evenly cover burner media material (or vermiculite) in burner pan.

Installing Grate and logs

- Slide two rear log grate steps over two outer horizontal supports on the grate as shown in image 2 on page 9.
- Install logs onto the grate by following the rest of the instructions for your log set model on the following pages.

LOG PLACEMENT VMO24RNGA



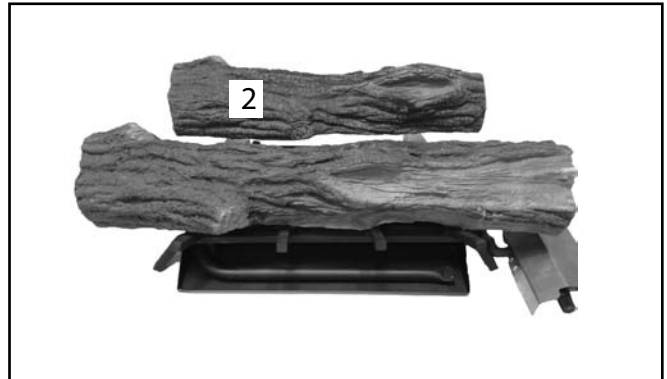
Log Identification



Back Log Stand-Offs in place



**Place main front log (1)
onto front area of the grate**



**Place shorter back log (2)
onto raised area of the grate**



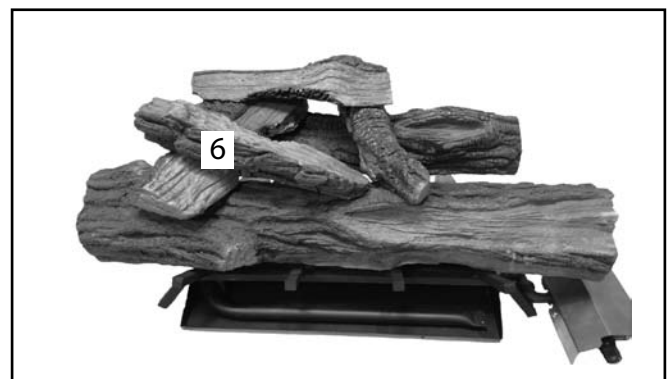
Place Cross-Log (3) at the left side



Place Cross-Log (4) at the center right



**Place Cross-Log (5) atop (3) and (4) at
the back left**



**Place Cross-Log (6) atop (3) and (1)
on the left side front.**

LOG PLACEMENT

VMO24RNGA

Continued



Place Cross-Log (7) at the top back, on the right side



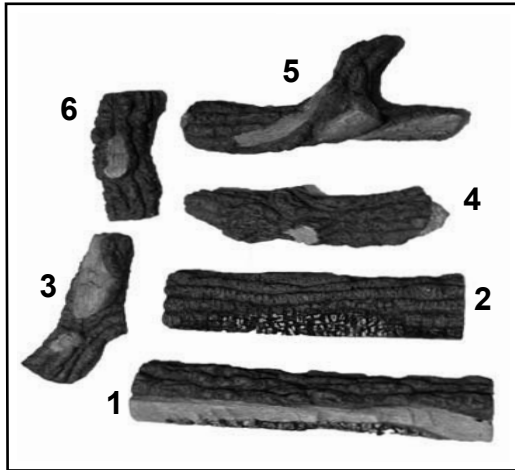
Place Cross-Log (8) atop (1) and (7) at the center right



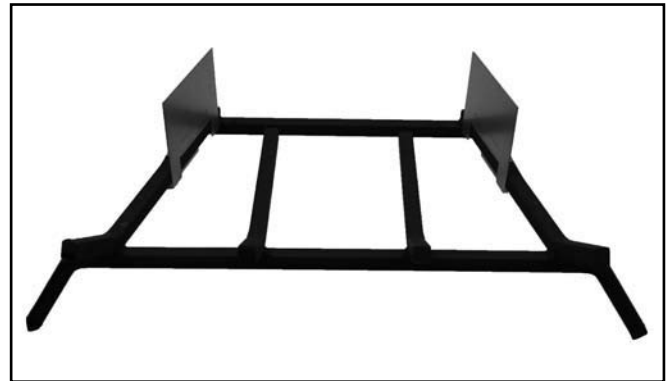
Place smallest decorative logs (9) and (10) onto the fireplace floor at each end of burner pan

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

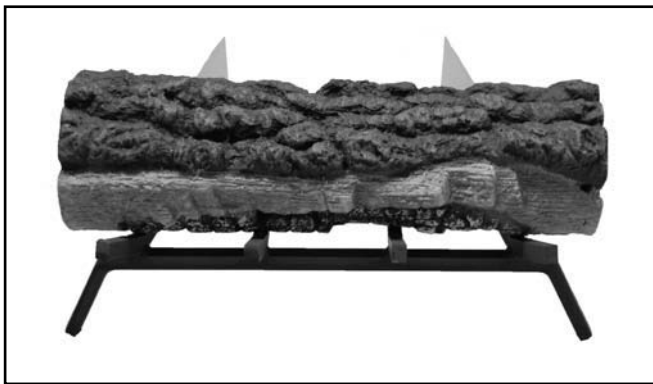
LOG PLACEMENT MODEL MO24DBRNL-60



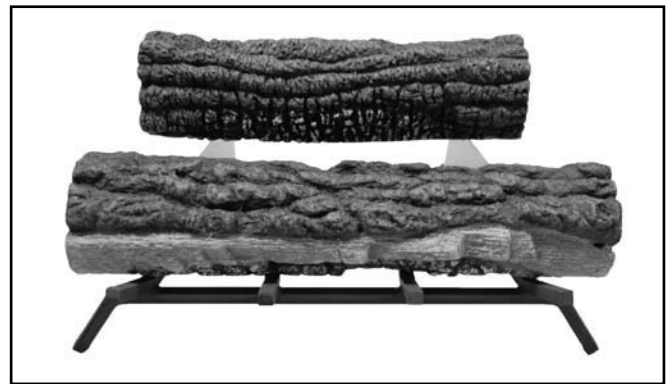
Log Identification MO18NG



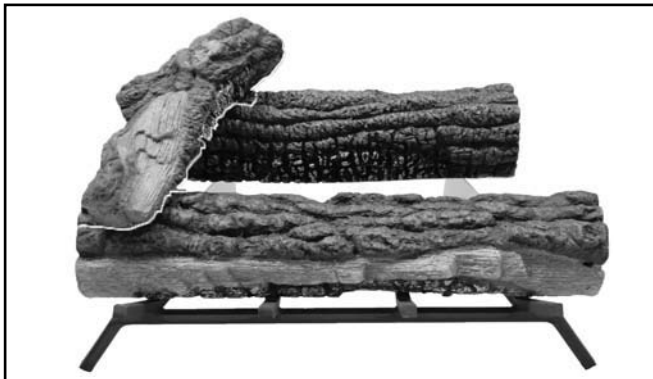
Back Log Stand-Offs in place



Place Main Front Log (1) onto front area of the grate



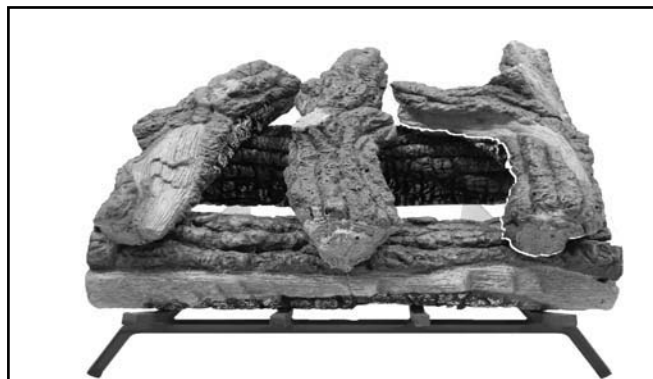
Place shorter back log (2) onto Back Log Stand-Offs



Place Cross-Log (3) at the left side



Place Cross-Log (4) at the center



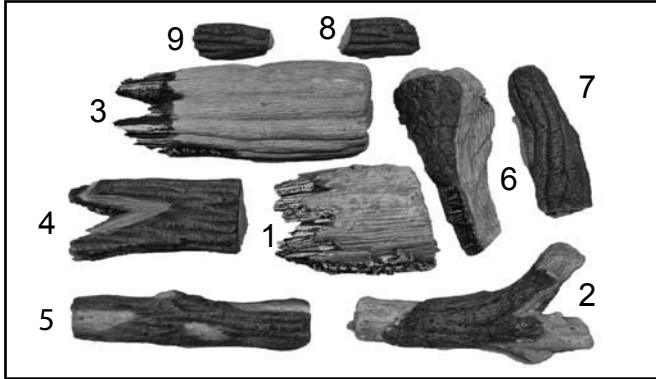
Place Cross-Log (5) at the right side



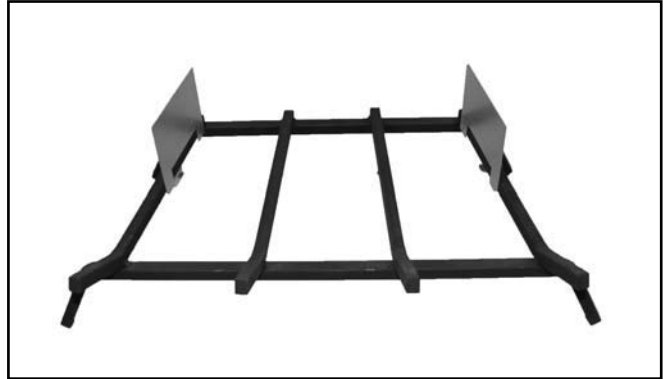
Place Cross-Log (6) from the center to the right side

LOG PLACEMENT

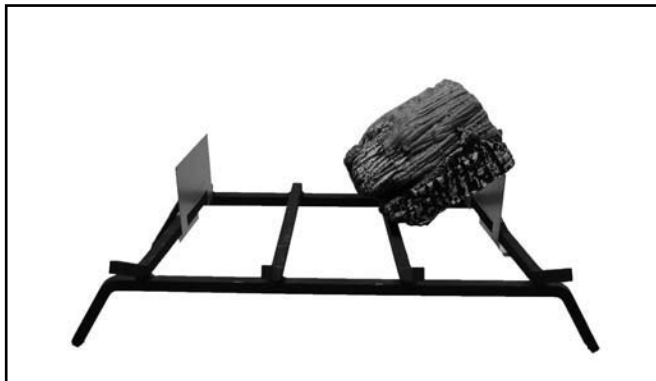
MODEL: BRO24DBRNL-60



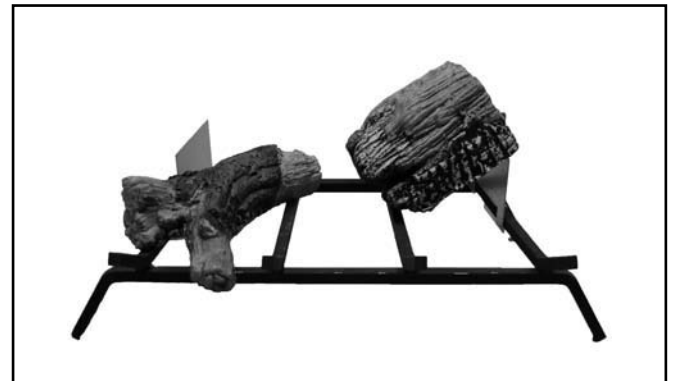
Log Identification



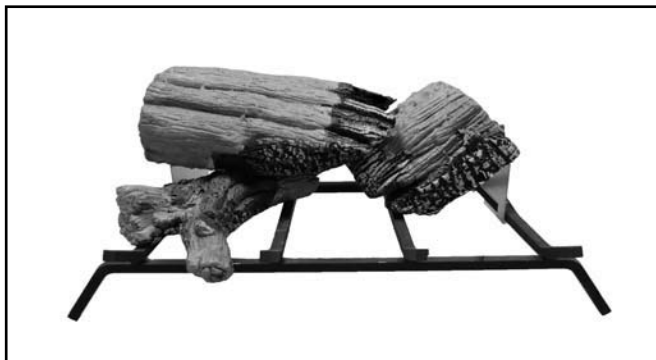
Back Log Stand-Offs in place



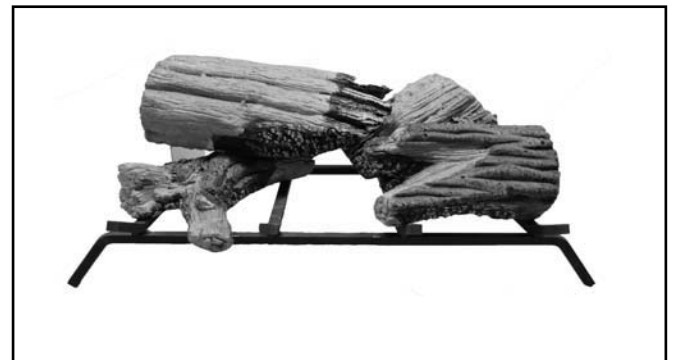
Place log (1) onto back right area of the grate



Place "Y" shaped log (2) onto left of the grate ahead of raised area



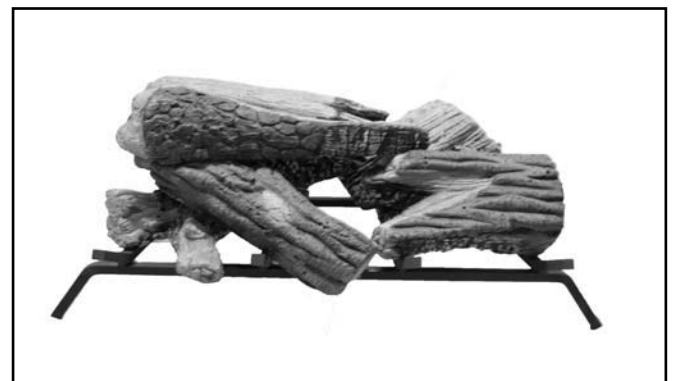
Place log (3) onto back left area of the grate, perpendicular to log (1)



Place log (4) at the front right of the grate with the "split" area to the flame



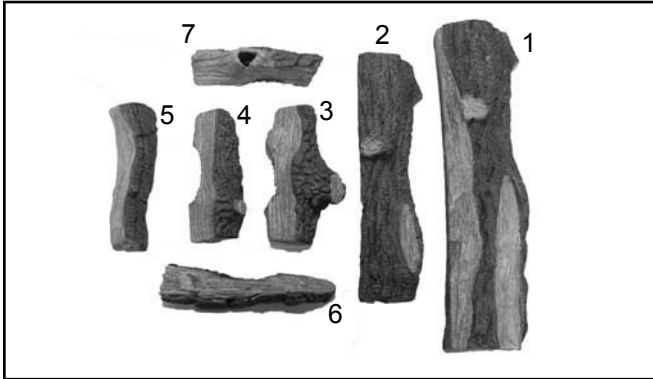
Place log (5) on to log (2) and brace it on the grate finger left of center



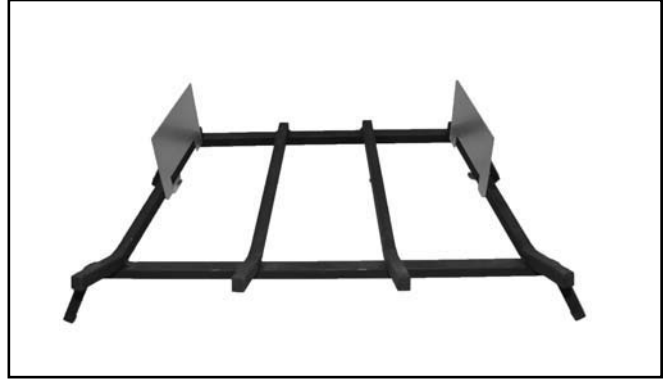
Place log (6) atop logs (5) and (4) as shown

LOG PLACEMENT

MODEL: SH24DBRNL-60



Log Identification



Back Log Stand-Offs in place



**Place main front log (1)
onto front area of the grate**



**Place shorter back log (2)
onto raised area of the grate**



Place Cross-Log (3) at the left side



Place Cross-Log (4) at the center left



Place Cross-Log (5) at the center right



Place Cross-Log (6) at the right side

LOG PLACEMENT

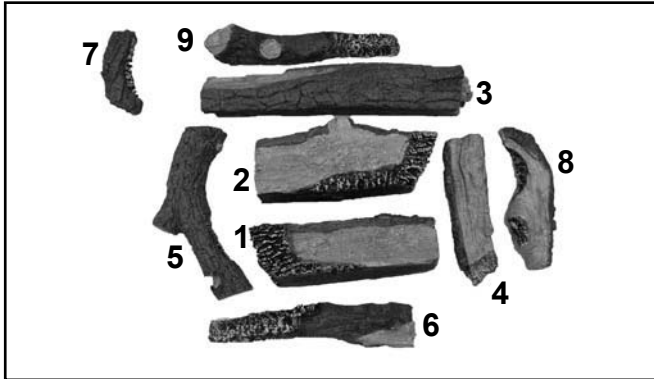
MODEL: SH24DBRNL-60 cont.



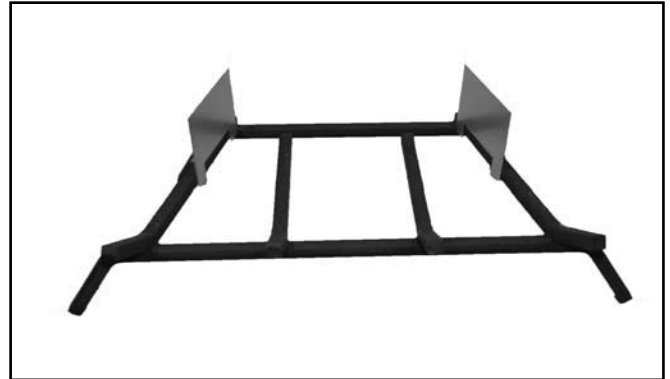
**Place cross-log (7) atop cross-log (6) and
to front center as shown**

LOG PLACEMENT

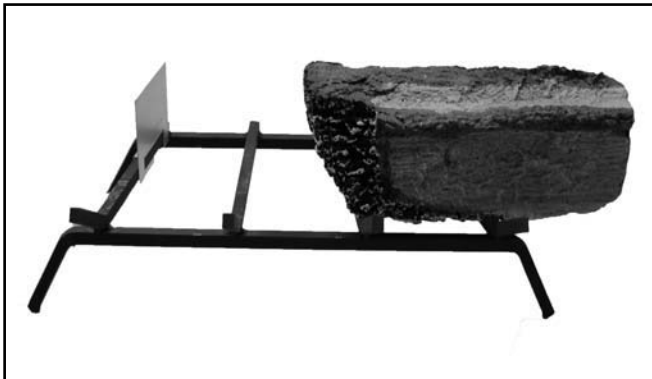
MODEL CS30DBRNL-60



Log Identification



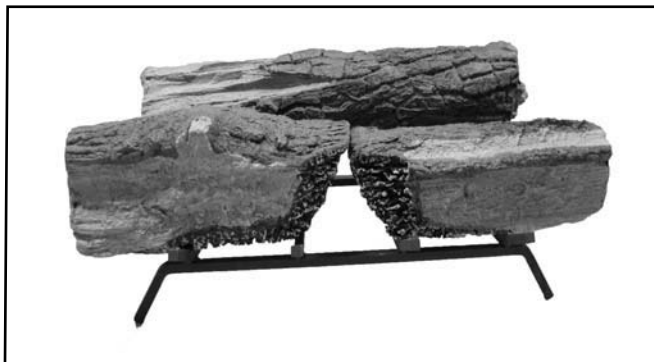
Back Log Stand-Offs in place



Place Right front log (1) onto front area of the grate



Place left front log (2) onto front area of the grate



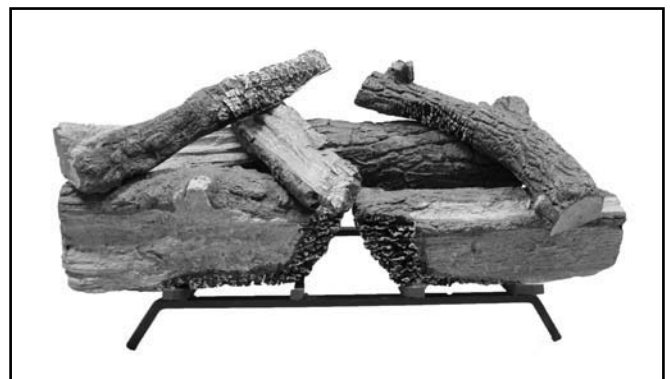
Place back log (3) onto raised area of the grate



Place Cross-Log (4) at the center left



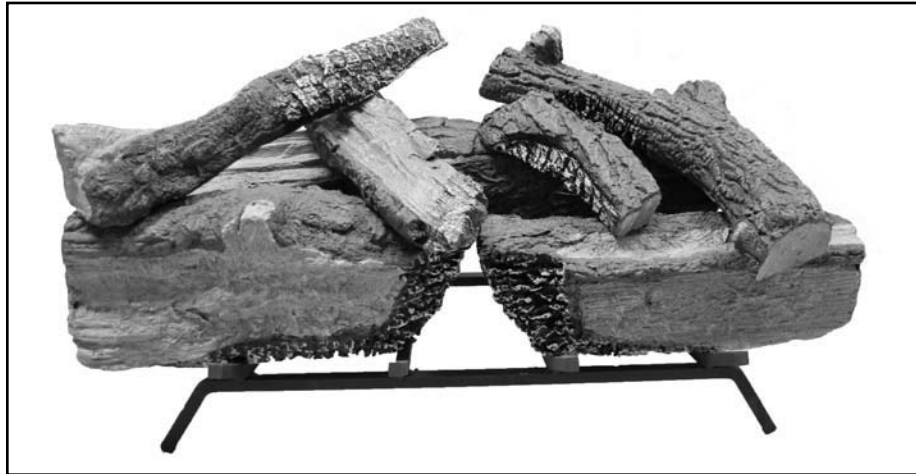
Place "Y" shaped Cross-Log (5) at right



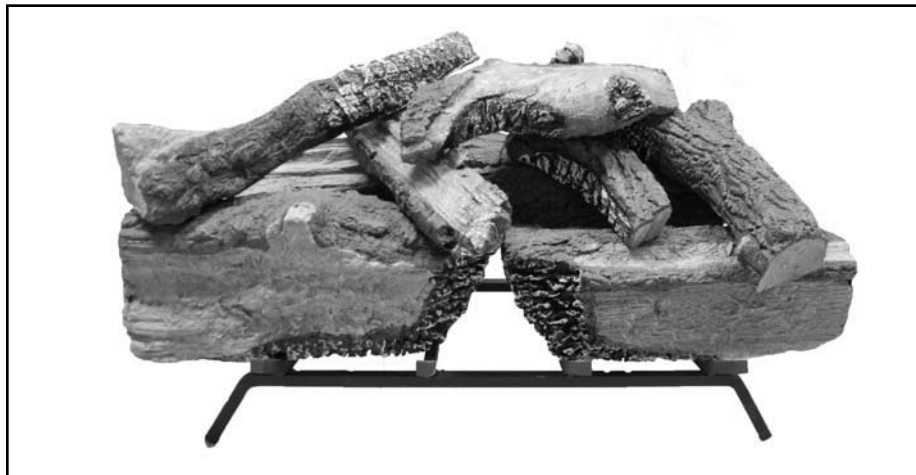
Place Cross-Log (6) from front left to lay on log (5) as shown

LOG PLACEMENT

MODEL: CS30DBRNL-60 Cont.



Place Cross-Log (7) at the center right



**Place Cross-Log (8) at the top center
across logs (5) and (7)**



**Place log (8) in front of the set, on the fireplace floor
(Make sure it is in front of the burner pan)**

OPERATION

FOR YOUR SAFETY READ BEFORE LIGHTING

⚠ WARNING: Keep flue open when operating unit.

⚠ 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 lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. BEFORE LIGHTING** 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 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.
- 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, don't try to repair it, call a qualified service technician or gas supplier. 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 any gas control which has been under water.

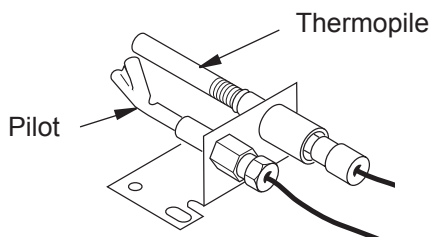




Figure 12 - Thermopile and Pilot

LIGHTING INSTRUCTION

1. STOP! Read the safety information on the left side of this page.
2. Make sure equipment shutoff valve is fully open.
3. Press in and turn control knob clockwise  to the OFF position.
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, page 17. If you don't smell gas, go to the next step.
5. Press in and turn control knob counter clockwise  to the PILOT position. Press in control knob for five (5) seconds (see *Figure 13*).

Note: You may be running this log set for the first time after hooking up to gas supply. If so, the control knob may need to be pressed in for 30 seconds or more. This will allow air to bleed from the gas system.

6. With control knob pressed in, use a match or grill lighter to light pilot. Visually locate the pilot (see *Figure 12*) on the edge of the burner pan to look for flame. If needed, repeat operation until the pilot lights.

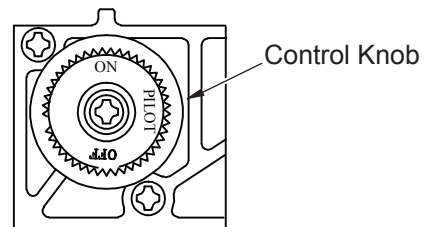



Figure 13 - Control Knob Location


7. 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. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob. If control knob does not pop out when released, contact a qualified service person or gas supplier for repairs.

Note: If pilot goes out, repeat steps 3 through 8.

LIGHTING INSTRUCTION


Continued

9. Slightly push in and turn control knob counterclockwise  to the ON position.

10. **To leave pilot lit and shut off burners only:**
Turn control knob clockwise  to the PILOT position, or set selector switch in the OFF position.

TO TURN OFF GAS TO APPLIANCE

Shutting Off Appliance

1. Slightly push in and turn control knob clockwise  to the OFF position.
2. Close equipment shutoff valve.

CURING THE LOGS

During the 2-3 hour appliance break-in period, you may detect an odor from the appliance as the various paints and compounds used in the manufacturing of this log set cure.

This is a normal and temporary situation that is not cause for alarm. However, you may want to provide extra ventilation to the room during this time.

Hand Held Remote

NOTICE: You must light the pilot before using the hand-held remote control unit. See [Lighting Instructions](#), page 17.

After lighting, let pilot flame burn for about one minute. Turn control knob to ON position. Slide the selector switch on the remote receiver to the REMOTE position.

Note: The burner may light if hand-held remote was on when selector switch was last turned off. You can now turn the burner on and off with the hand-held remote control unit.

IMPORTANT: Do not leave the selector switch in the REMOTE or ON position when the pilot is not lit. This will drain the battery.

INSPECTING BURNERS

Check pilot flame pattern and burner flame patterns often.

PILOT FLAME

The pilot assembly is factory preset for the proper flame height. Alterations may have occurred during shipping and handling. The pilot is located on the back right hand side of the burner.

The thermocouple should be fully enveloped in the flame. The flame should not be lifting off of the thermocouple element.

If your pilot assembly does not meet these requirements:

- Turn the adjustment screw marked pilot clockwise to decrease or counterclockwise to increase the flame to proper size (see [Figure 14](#)). Do not attempt to remove the adjustment screw.
- See [Troubleshooting](#), pages 19-20

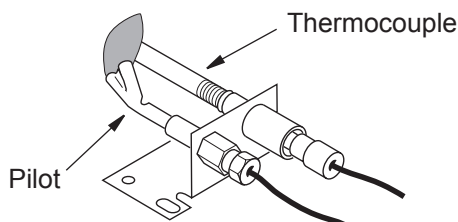


Figure 13 - Correct Pilot Flame Pattern

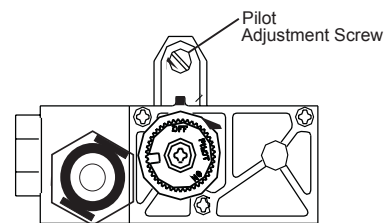


Figure 14 - Locating Pilot Adjustment Screw

BURNER FLAME PATTERN

Burner flames will be steady; not lifting or floating. Flames should go up through the middle of logset. Flames should not "spill" to the edges of the pan or sides of the logset.

[Figure 15](#) shows a typical flame pattern. If burner flame pattern differs from that described:

- Turn appliance off (see [To Turn Off Gas to Appliance](#), this page).
- See [Troubleshooting](#), page 19-20.

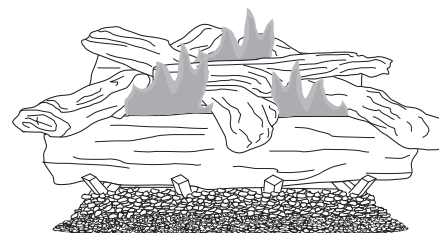


Figure 15 - Typical Flame Pattern

CLEANING AND MAINTENANCE

- Keep the area around the log set clean and clear of debris.
- Occasionally, you may use a soft bristle brush to clean logs.
- Periodically inspect the air mixer and burner tube for foreign matter blocking the air inlet and flame holes.
- Once every year a qualified agency or certified chimney sweep should examine and clean the venting system of the fireplace.

SERVICE HINTS

When Gas Pressure is Too Low

- pilot will not stay lit
- burners will have delayed ignition
- heater will not produce specified heat
- propane/LP gas supply may be low

If you suspect your gas pressure is too low, contact your gas provider and request that it be tested.

TECHNICAL SERVICE

For operational questions or technical service, call toll free (800) 229-5647. Be sure to have your model number available when calling.

TROUBLESHOOTING

⚠ WARNING: Turn off log set and let cool before servicing. Only a qualified service person should service and repair log set.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
When attempting to ignite with a match, pilot will not light.	<ol style="list-style-type: none"> 1. Gas supply turned off or equipment shutoff valve closed. 2. Control knob not in PILOT position. 3. Control knob not pressed in while in PILOT position. 4. Air in gas lines when installed. 5. Pilot adjustment screw closed. 6. Pilot is clogged. 7. Low/incorrect gas pressure. 	<ol style="list-style-type: none"> 1. Turn on gas supply or open equipment shutoff valve. 2. Turn control knob to PILOT position. 3. Press in control knob while in PILOT position. 4. Continue holding down control knob. Repeat igniting operation until air is removed. 5. Adjust pilot flame for approximately 2" blue flame. 6. Clean pilot (see <i>Cleaning and Maintenance</i>, above) or replace pilot assembly. 7. Check/replace gas regulator.
Pilot lights but flame goes out when control knob is released.	<ol style="list-style-type: none"> 1. Control knob not fully pressed in. 2. Control knob not pressed in long enough. 3. Equipment shutoff valve not fully open. 4. Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following: <ol style="list-style-type: none"> A) Low gas pressure B) Dirty or partially clogged pilot. 5. Thermocouple connection loose at control valve. 6. Thermocouple damaged. 7. Control valve damaged. 	<ol style="list-style-type: none"> 1. Press in control knob fully. 2. After pilot lights, keep control knob pressed in 30 seconds. 3. Fully open equipment shut off valve. 4. A) Contact local natural gas company. B) Clean pilot (see <i>Cleaning and Maintenance</i>, above) or replace pilot assembly. 5. Hand tighten until snug, then tighten 1/4 turn more. 6. Replace thermocouple. 7. Replace control valve.
Burner does not light after pilot is lit.	<ol style="list-style-type: none"> 1. Burner orifice clogged. 2. Inlet gas pressure is too low. 3. Thermocouple leads disconnected or improperly connected. 	<ol style="list-style-type: none"> 1. Clean burner orifice. 2. Contact local natural or propane/LP gas company. 3. Reconnect leads.

TROUBLESHOOTING

Continued

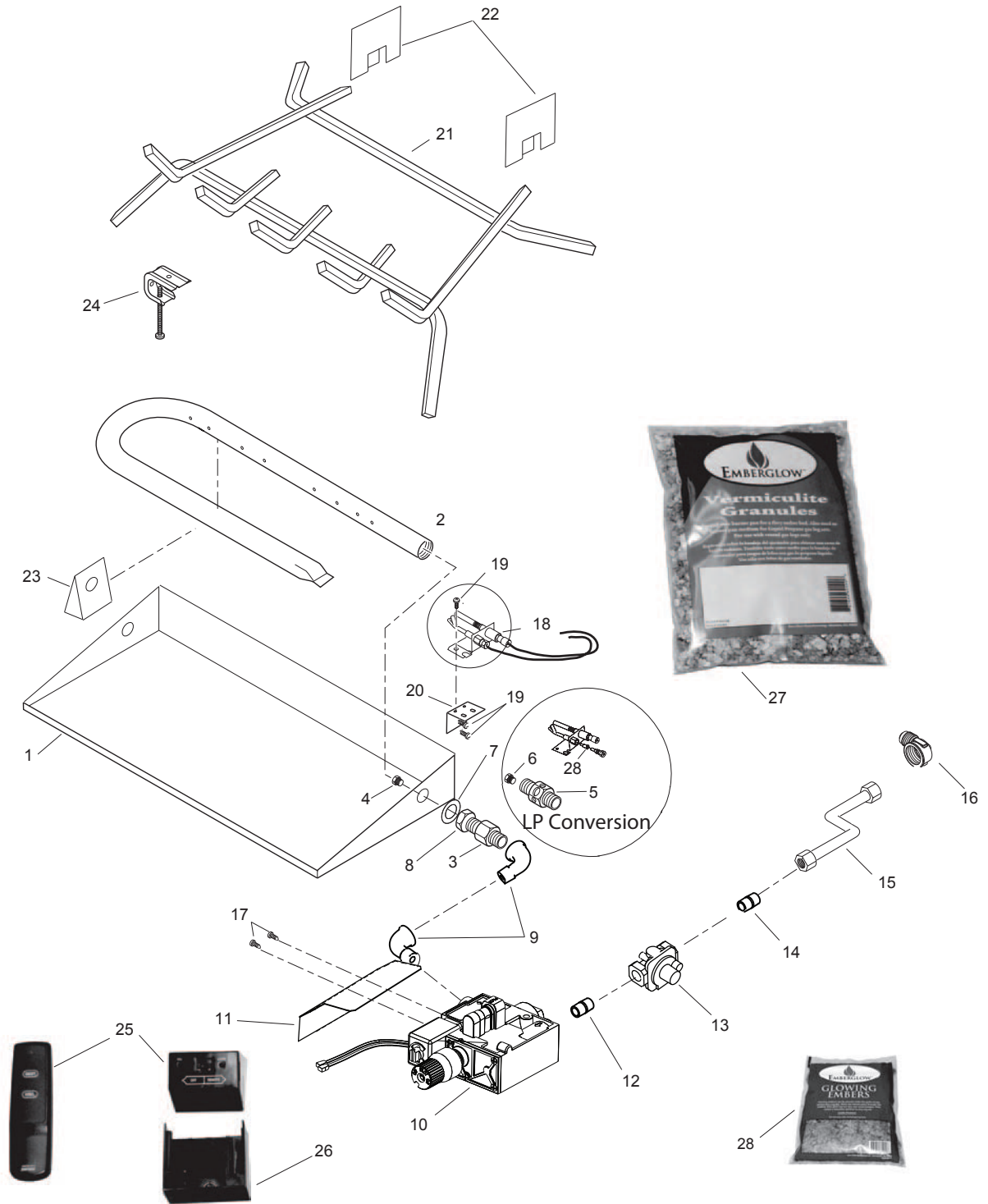
OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Delayed ignition burner.	<ol style="list-style-type: none"> 1. Pilot flame needs adjusting. 2. Wrong pilot orifice for gas type. 	<ol style="list-style-type: none"> 1. Adjust pilot flame for approximately 2" blue flame. 2. Replace pilot orifice.
Remote does not function.	Battery is not installed. Battery power may be low	Replace batteries in receiver and/or remote control.
Burner flame is too low or too high.	<ol style="list-style-type: none"> 1. Incorrect gas supply or pressure. 2. Blocked burner orifice or burner manifold ports. 3. Improper burner orifice size. 	<ol style="list-style-type: none"> 1. Check for proper gas supply pressure. 2. Free burner orifice and manifold ports of any burrs, paint, or other blockage. 3. Verify proper burner orifice sizing (see Figure 2, page 5).
Burner is excessively noisy. <i>(Note: The movement and combustion of gas will create low, unavoidable levels of noise.)</i>	<ol style="list-style-type: none"> 1. Passage of air/gas across irregular surfaces. 2. Excessive gas pressure on natural gas units. 	<ol style="list-style-type: none"> 1. Relieve any tight bends or kinks in gas supply line. 2. Have inlet gas pressure checked by a qualified service person.
Log set is smoking/sooting excessively. <i>(Note: It is natural and unavoidable for vented gas log sets to produce moderate levels of carbon (soot) where flames contact the logs. This is especially true with propane/LP gas.)</i>	<ol style="list-style-type: none"> 1. Poor fuel quality. 2. Fireplace venting system not drafting properly. 3. Excessive flame impingement or blockage. 4. Improper fuel/air mixture. 5. Excessive gas supply/pressure. 	<ol style="list-style-type: none"> 1. Contact local natural or propane/LP gas company. 2. Adjust damper wide open and/or have fireplace and venting professionally cleaned and checked. 3. Separate the logs to allow more flame passage. 4. Remove any foreign items from the flame pattern and/or check for proper orifice sizing. 5. Preheat flue in very cold weather.
Log set produces a clicking/ticking noise just after burner is lit or shut off.	Metal expanding while heating or contracting while cooling.	This is normal with most log sets. If noise is excessive, contact qualified service person.
Log set produces unwanted odors.	<ol style="list-style-type: none"> 1. Log Set burning vapors from paint, hair spray, glues, cleaners, chemicals, new carpet, etc. (See IMPORTANT statement below.) 2. Gas leak. See Warning statement below. 	<ol style="list-style-type: none"> 1. Open flue to maximum. Stop using odor causing products while log set is running. 2. Locate and correct all leaks (see <i>Checking Gas Connections</i>, page 6).
Gas odor even when control knob is in OFF position.	<ol style="list-style-type: none"> 1. Gas leak. See Warning statement below. 2. Control valve defective. 	<ol style="list-style-type: none"> 1. Locate and correct all leaks (see <i>Checking Gas Connections</i>, page 6). 2. Replace control valve.

⚠ WARNING: If you smell gas:

- Shut off gas supply.
- 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.

IMPORTANT: Operating log set where impurities in air exist may create odors. Cleaning supplies, paint, paint remover, cigarette smoke, cements and glues, new carpet or textiles, etc. create fumes. These fumes may mix with combustion air and create odors. These odors will disappear over time.

DB24/30RNL-60 and VMO24RNGA PARTS



DB24/30RNL-60 PARTS

Continued

KEY NO.	PART NO.	DESCRIPTION	DB24	DB30
1.	SBNCJ00365A	Burner Pan, 24" Sets	1	
	SBNCJ00366A	Burner Pan, 30" Sets		1
2.	RCOCB00002A	Burner Tube, 24" Sets	1	
	RCOCB00003A	Burner Tube, 30" Sets		1
3.	RMH-120-00085B	Orifice Holder, Natural Gas	1	1
4.	RMH-120-90955	Orifice, Natural Gas	1	1
5.	RMH-120-00084B	Orifice, Propane/LP Gas	1	1
6.	RMH-120-00324	Orifice, Propane/LP Gas	1	1
7.	RCODZ00145A	Washer	1	1
8.	RMH-120-00574	Pal Nut	1	1
9.	RMH-120-00069	Elbow, "Street" 3/8"NPT	2	2
10.	RMH-120-AF1010	Valve, Remote "ON/OFF"	1	1
11.	RMH-120-RVS304	Heat Shield	1	1
12.	RMH-120-90860	Pipe, "Close" 3/8" NPT	1	1
13.	RCOZZ00568A	Regulator, Dual Fuel	1	1
14.	RMH-120-00050	Fitting, 3/8" NPT X 3/8" Flare	1	1
15.	KHH-ACT16	Connector, 3/8" Tube	1	1
16.	FCHD1809021	Fitting, 3/8" X 1/2" NPT Female	1	1
17.	RMH-120-00571	Screw #6 32 x 1/2"	1	1
18.	RCOZZ00495B	Pilot Assembly, NG	1	1
19.	RMH-120-00570	Screw, Sheet Metal #6 x 1/2"	3	3
20.	RMH-120-PBAGA	Pilot Bracket	1	1
21.	RCORJ00003A	Grate, Vented 24" Sets	1	0
	RCORJ00003A	Grate, Vente 30" Sets	0	1
22.	SPSCJ00106A	Standoff, Back Log	2	2
23.	RMH-120-00420	Burner Spacer	1	1
24.	RMH-120-00100	Damper Clamp	1	1
25.	RCAF-1001	Remote Set (Transmitter and Receiver)	1	1
26.	RS1A	Heat Shield, Receiver	1	1
27.	RMH-130-00310	Vermiculite Granules (LP Media)	1	1
28.	ACC16	Glowing Embers	1	1
Not Shown	WIP-130-00010	Burner Media, Natural Gas	1	1

LIMITED WARRANTY

Sure Heat Mfg. warrants that the components of this appliance are warranted free from defects in material and workmanship for one (1) year from the date of purchase. Sure Heat Mfg. at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new manufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal value. This warranty does not include transportation or shipping costs of any kind. This is your exclusive warranty.

This warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferable. Keep the original sales receipt. Proof of purchase is required to obtain warranty parts.

This warranty does not cover normal wear of parts such as scratches and dents of the components or damage resulting from any of the following:

- negligent use or misuse of the product, including exposing the product to chemicals or cleaning products not approved by Sure Heat Mfg.
- corrosion, rust or discoloring of any kind
- use or installation contrary to specified instructions and applicable building codes, including heating the product to temperatures above its rated specifications which can cause considerable warping
- disassembly, including removal of the product from a built-in installation
- damage resulting from accident, alteration, misuse, abuse, hostile environments, or improper installation
- repair or alteration
- acts of God, such as fire, flood, hurricanes, and tornadoes
- gas cylinders, propane tanks or other fuel delivery systems, including connections to a household fuel supply
- usage other than single-family household use such as commercial or industrial use
- minor warping or discoloration of parts, which is normal and not a defect under this warranty

DO NOT RETURN THIS PRODUCT TO THE PLACE OF PURCHASE

If the appliance does not operate properly, first thoroughly carry out the instructions provided with the unit to ensure that the appliance is installed correctly and check the troubleshooting section in this use and care manual.

We recommend you return this warranty registration card so that you can be contacted should any questions of safety arise that could affect you. The return of the warranty registration card is not a condition for warranty coverage.

Purchased From: _____ Date: _____

Model: _____ Serial Number: _____

Name: _____ Phone Number: _____

Address: _____

City: _____ State: _____ ZIP: _____

Because of continuing product improvement, these specifications are subject to change without notice.

If you have other questions or need replacement parts contact our

Customer Service Hotline at (800) 229-5647 or

visit our website at www.sureheat.com

Sure Heat Manufacturing, 3140 Moon Station Road, Kennesaw GA, 30144