



Burner Systems:

BV-3BRN-24-NG-MVKEI-GCRK

BV-3BRN-24-LP-MVKEI-GCRK

INSTALLATION AND OPERATIONS GUIDE FOR GRAND CANYON GAS LOG SYSTEMS

Installation and service must be provided by a qualified installer, service agency or gas supplier

Grand Canyon Gas Logs, logs are made of cement refractory material re-enforced with steel fibers. Each of the logs are hand painted and hand finished to recreate the most realistic logs available on the market. The gas burner system is designed to recreate and burn like a real wood burning fireplace with a natural looking flame. With this in mind the gas log sets **MUST** be burned in a fully vented, non-combustible fireplace with the **DAMPER COMPLETELY OPEN** and the chimney free of any obstruction or restrictions.

The realistic flame produced by Grand Canyon Gas Log burners produce carbon monoxide and soot. Under standard conditions these byproducts are exhausted up the chimney. **IF** the fumes or soot from the burning gas are evident in the room when the damper is fully open it indicates that the fireplace draft is defective. **IF** this happens **DO NOT** operate your gas logs until the fireplace draft is corrected, call a service technician to fix the problem.

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 application**

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 the building**
- **Immediately call the gas supplier from a neighbor's phone. Follow the gas supplier's instructions**
- **If you cannot reach the gas supplier, call the fire department.**
- **Installation and service must be performed by a qualified installer, service agency or the gas supplier**

This Grand Canyon burner system is to be installed only in an ISOKERN BVETTO (B-vent) fireplace with a working flue and constructed of noncombustible material. The installation including provisions for combustion and ventilation air must conform with the *National Fuel Gas Code*, ANSI Z223.1/NFPA 54, or the CSA B149.1 Natural Gas and Propane Installation Code, and applicable local building codes.

The chimney damper must be fully opened when burning the log set. The log set is designed to burn with a yellow flame, thus adequate ventilation is absolutely necessary. To comply with certifications, listings, and building code acceptances, and for safe operation and proper performance of this log set, use only Grand Canyon Gas Logs parts and accessories. Use of other controls, parts, and accessories that are not designed for use with Grand Canyon Gas Logs log set is prohibited and will void all the warranties, certifications, listings and building code approvals, and may cause property damage, personal injury or loss of life.

WARRANTY

Grand Canyon Gas Logs burners and logs carry a lifetime warranty against breakage and defects to the original purchaser. ALL GCGL valves, pilot assemblies and electrical components carry a 2 year warranty as long as installed indoors and installed by a licensed professional. Further warranty information can be found in the warranty section of this guide.

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

IMPORTANT INFORMATION

WARNING: This appliance assembly contains burner orifices specifically for the input gas specified on the burner and box, as well as the Btu rating specified in this manual. Modifying or failure to use the factory orifice may cause property damage, personal injury or loss of life.

Read these instructions completely before installing and using Grand Canyon Gas Log system.

1. Gas type will be indicated on the burner and the box. Do not use a natural gas burner with propane or a propane burner with natural gas.
2. The installation, provisions for combustion, and ventilation air must conform to the National Fuel Gas Code, *ANSI Z223.1/NFPA54*, or the *CSA B 149.1*, National Gas and Propane Installation Code.
3. For warranty to be valid gas log sets must be installed by a NFI certified or other qualified professional installer.
4. Solid fuels are not to be burned in a fireplace where a decorative appliance has been installed.
5. The chimney damper must be fully open, and the cable attached to the High Temp Lintel.
6. The minimum inlet supply pressure for the purpose of input adjustment is 5.0 inches (natural gas) 8.0 inches (propane) in water column. The maximum inlet supply pressure is 10.5 inches (natural gas) 13.0 inches (propane) in water column.
7. The appliance and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ psig (3.5kPa). The appliance must be isolated from the gas supply piping system by closing its individual manual valve during pressure testing equal to or less than ½ psig (3.5kPa).
8. The appliance area is to be clear and free from combustible materials, gasoline and other flammable vapors and liquids.
9. 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 gas control which has been under water.

FIREPLACE SIZE REQUIREMENTS

Burner Size	Min. Fireplace Dimensions				BTU	
	Width		Depth	Height	NAT.	L.P.
	Front	Rear				
24"	36"	24"	12"	14"	74K	66K

IMPORTANT

For all valves, the air **MUST** be purged from the gas line before the pilot will light and burn properly. The time needed to purge will depend on the length of the gas line to the unit and the amount of time since the unit or gas line was last used. It may take several minutes before all the air is purged and the pilot will light and burn properly. Follow the **LIGHTING INSTRUCTIONS** section in this manual.

INSTALLATION

INSTALLING APPLIANCE BASE ASSEMBLY

Clear fireplace of all debris. Center burner inside the fireplace left to right and push burner in the back as far back in the fireplace as possible.



Installation Items Needed

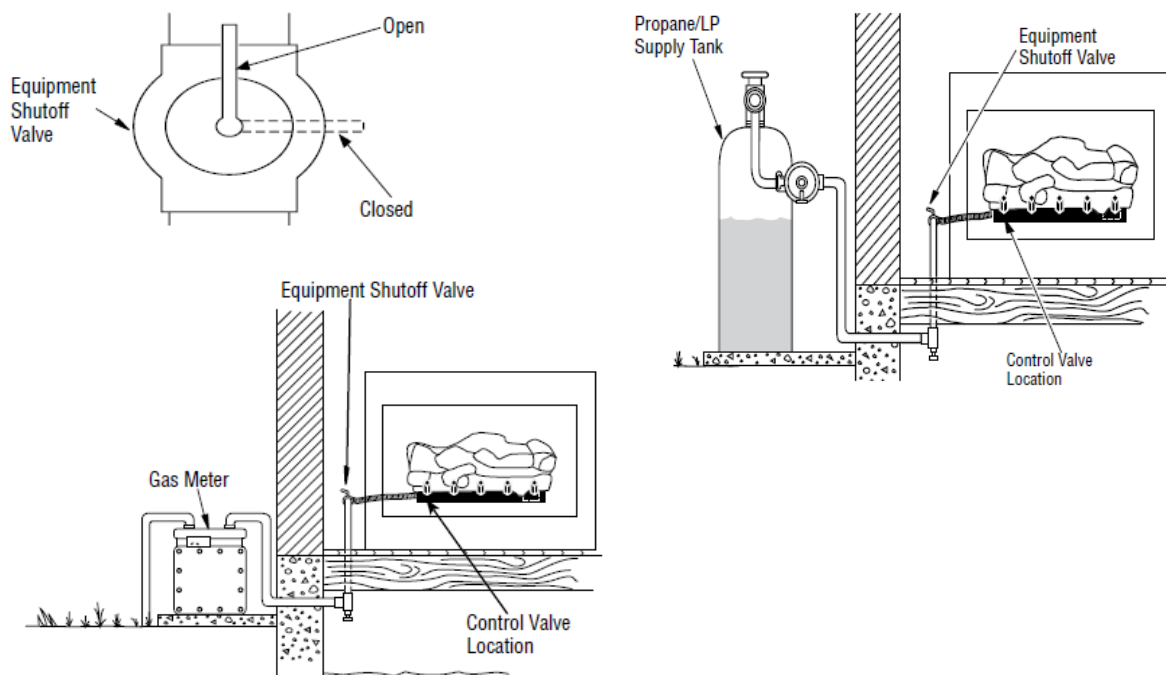
Before installing appliance, make sure you have the items listed below.

- external regulator (supplied by installer)
- piping (check local codes)
- sealant (resistant to propane/LP gas)
- equipment shutoff valve *
- test gauge connection *
- sediment trap
- tee joint
- pipe wrench
- approved flexible gas line with gas connector (if allowed by local codes) (not provided)

*An equipment shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional equipment shutoff valve from your dealer.

For propane/LP units, the installer must supply an external regulator. The external regulator will reduce incoming gas pressure. You must reduce incoming gas pressure to between 11" and 14" of water. If you do not reduce incoming gas pressure, appliance regulator damage could occur. Install external regulator with the vent pointing down as shown in Pointing the vent down protects it from freezing rain or sleet.

The Grand Canyon Gas Log set must be installed by a qualified professional service technician. Instructions must be followed carefully to ensure proper performance and full benefit from the gas log set. Check to be sure the log set is designed and labeled for the type of gas (natural or propane) supplied to the fireplace. Fireplace floor must be level clear of debris and smooth.



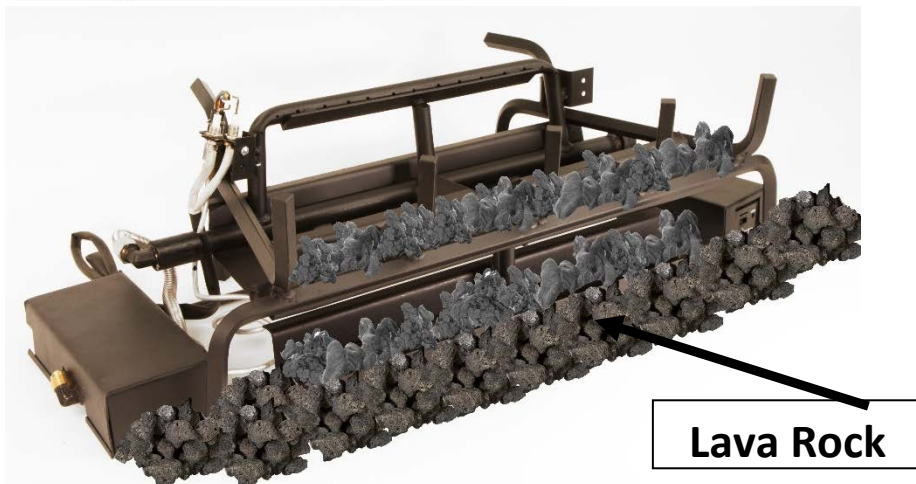
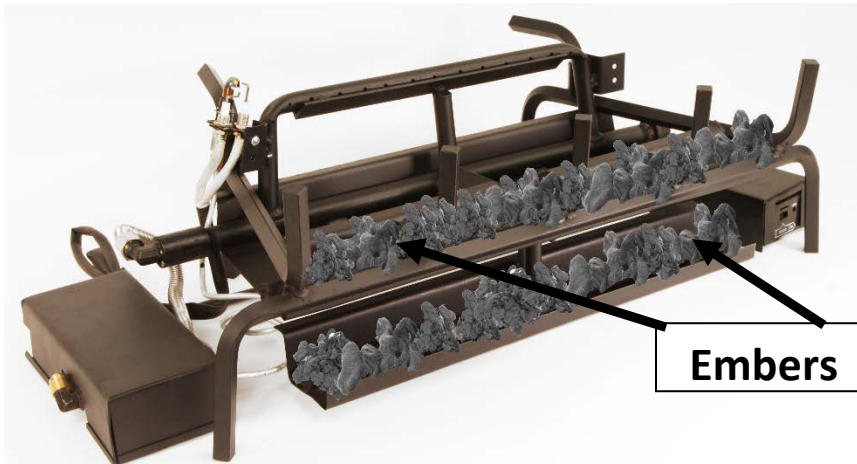
WARNING: Failure to position the parts in accordance with this manual or failure to use only parts specifically approved with this appliance may result in property loss, personal injury, or loss of life.

BURNER INSTALLATION:

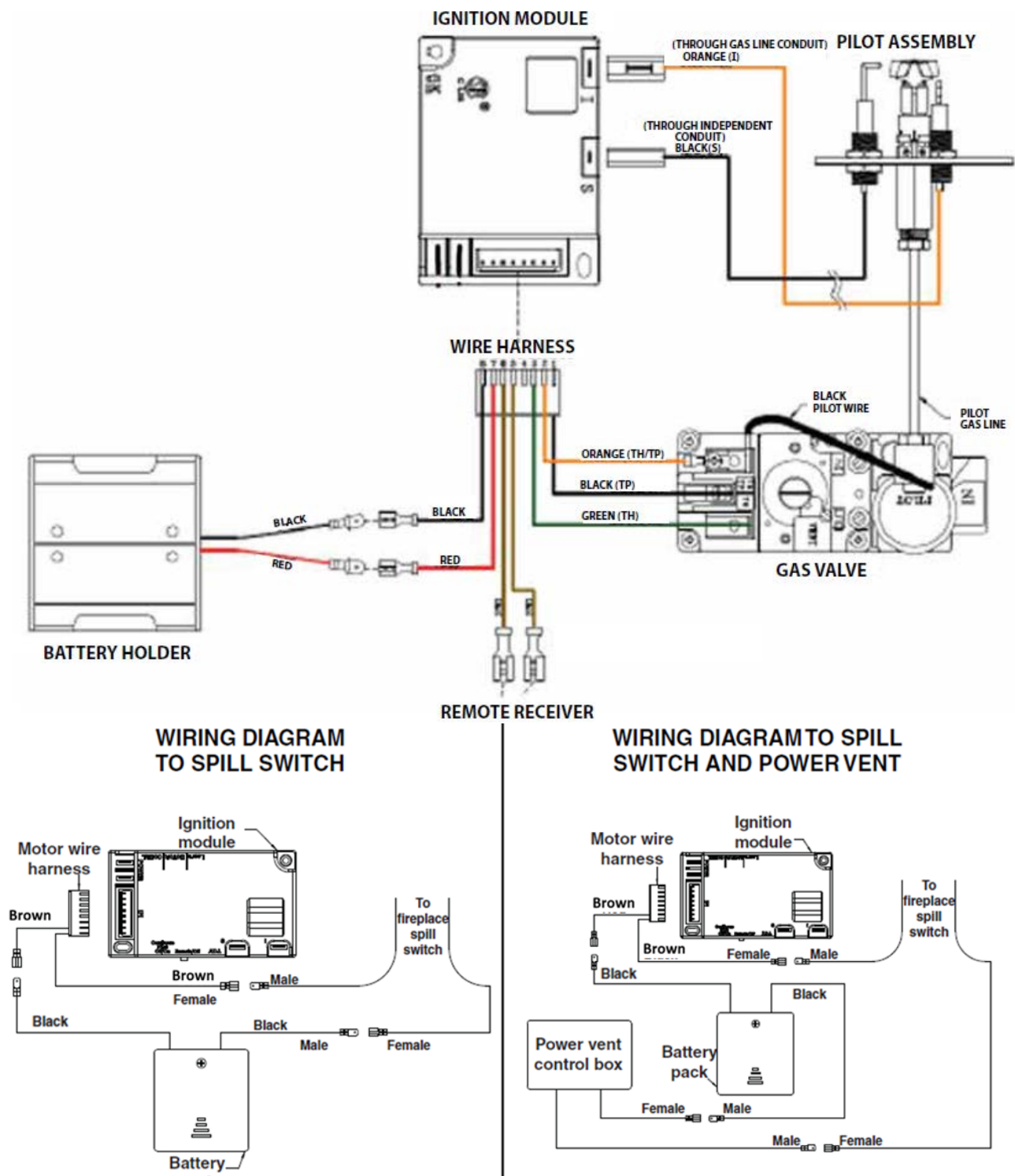
1. Make sure the fireplace gas supply is turned off
2. Locate the gas-supply stub inside the fireplace and remove the cap. When removing the cap make sure the stud does not turn, loosening the connection inside the wall.
3. Center the burner from side to side and position it as close to the back wall of the firebox. Ideally, the burner will be aligned directly under the flue damper.
4. Disconnect one black-to-brown wire connection and connect the black and brown wires to the Spill Switch wires.
5. Use the 1/2" stainless steel flex line connector to connect the gas supply line to the gas inlet on the valve. When bending the flex line use proper bending procedures to avoid kinking the tubing.
6. Verify that connections are tight, then turn on the gas and check each connection using soap and water solution. **DO NOT USE AN OPEN FLAME FOR LEAK TESTING.** The soap and water connection should be 50% water and 50% soap. Brush the solution over the connections and check for bubbles. Any leak must be corrected prior to proceeding with installation.
7. Determine the valve system that is installed on the appliance, then proceed with lighting the pilot (NOTE: Manual on/off valves do not have a pilot).
8. Before lighting the appliance make sure the heat shield is placed back in the position it was when the appliance was taken out of the box.

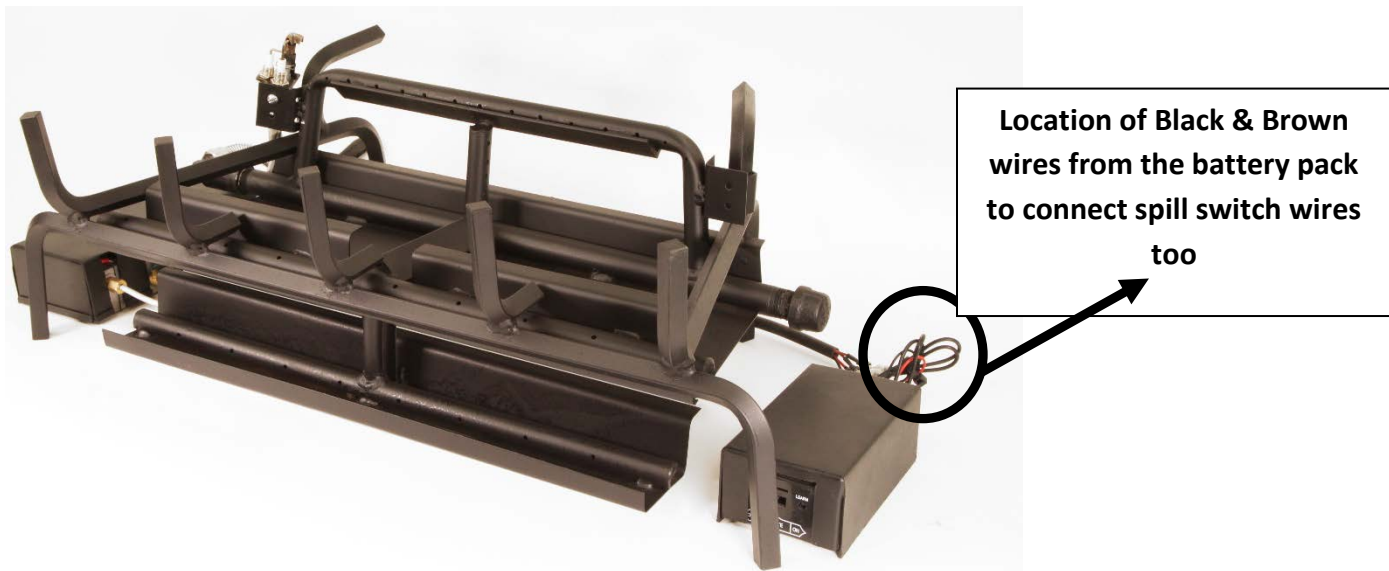
BURNER MEDIA INSTALLATION:

1. Locate vermiculite (3 burner and LP units only) and the rock wool (Glowing Embers). Vermiculite is used for all propane units and for the ember burner on the 3 burner appliance.
 - a. Open the vermiculite, then evenly fill the entire ember pan area,
2. Open the bag of rock wool, then spread it evenly throughout the entire ember pan area. Tear the rock wool into smaller pieces and keeping it loosely packed will provide a better ember bed appearance.



WIRING DIAGRAM INSTALLATION





#	Part #	Description
1	3BRN-24	24" 3 Burner
2	LP-CONV * Propane Models Only	24" 3 Burner Propane Conversion Kit
3	6003V or 6003V-LP	NG Control Valve LP Control Valve
4	GM6KA	Control Module
5	6K-WIR	Wiring Harness
6	3V-PIL-24 or 3V-PIL-24P	NG Pilot Assembly LP Pilot Assembly
7	3V-BAT	Battery Pack
8	GCRK	Remote Kit (Receiver & Handheld)
9	HP-R-B-10	Lava Rock
10	GLE-6B	Black Embers
11	T102-9898-16	Flex Line
12	46-68	Gas Inlet Fitting

BATTERY LIGHTING INSTRUCTIONS

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 is equipped with an ignition device that automatically lights the pilot. **DO NOT** attempt to light the pilot by hand.
- B. **BEFORE OPERATING**, smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

- Do not 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 the remote to light the pilot. This valve will not operate if the pilot is not lit and stable.
 - 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. Attempted operation may result in fire or explosion resulting in property damage, personal injury or loss of life.

REMOTE LIGHTING

CAUTION: DO NOT attempt to light the pilot by hand.

Note: If the remote does not function, and batteries with an adequate power level are installed, refer to the TRANSMITTER FUNCTION section.

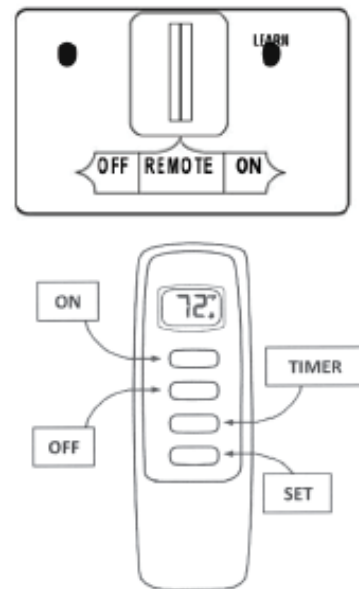
Note: Step 1 may not be required if previously done during an earlier lighting.

1. Locate the 3-position switch on the remote receiver and slide the switch to the **REMOTE** position.
2. Locate the remote transmitter and press the **ON** button. The ignition sequence will begin. The remote receiver will emit an audible "beep"; then the igniter will begin to spark. After the pilot lights and is established, the valve will automatically open and the burner will light.

Note: The ignition sequence will take approximately 5 seconds.

WARNING: If the pilot fails to light or if the burner fails to light (within 5 seconds of pilot lighting), press the **OFF** button on the remote transmitter and/or slide the switch to the **OFF** position. Allow five (5) minutes for any gas in the unit to dissipate, then repeat steps 1 and 2 above.
IF YOU SMELL GAS, SEE STEP B ABOVE.

If the pilot fails to light after several tries, turn all control/remote system components to **OFF** and contact a qualified professional service technician.



SHUTTING DOWN

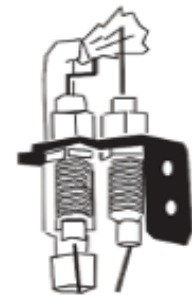
For remote shut down, press the **OFF** button on the remote transmitter.

If remote is unavailable, slide the switch on the remote receiver to the **OFF** position.

PILOT APPEARANCE

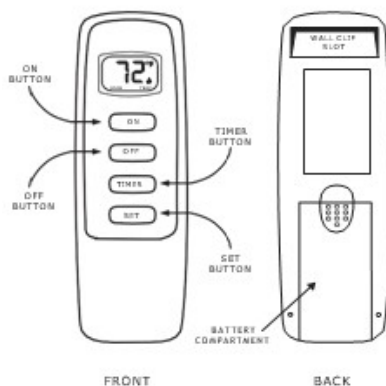
Periodically check the pilot for proper flame pattern. The pilot flame should encircle the generator tip, and is reset at the factory.

If the pilot flame burns incorrectly; shut down completely and contact a qualified professional technician.



Battery Pilot

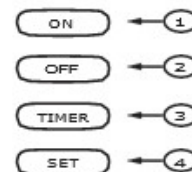
TRANSMITTER



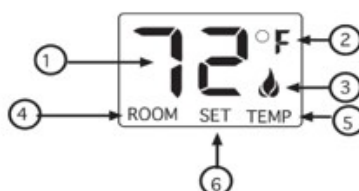
The transmitter operates on (2) 1.5V AAA batteries. It is recommended that ALKALINE batteries always be used for this product. Be sure the batteries are installed with the (+) and (-) ends facing the correct direction, and are fully charged.

KEY SETTINGS

1. **ON** --- Turns appliance ON.
2. **OFF** -- Turns appliance OFF.
3. **TIMER** Changes unit from manual mode to timer mode.
4. **SET** -- Adjusts timer setting.



LCD - LIQUID CRYSTAL DISPLAY



1. Display ----- Indicates current room temperature.
2. Fahrenheit or Celsius ----- Indicates degrees Fahrenheit or Celsius.
3. Flame ----- Indicates appliance is ON.
4. Room ----- Appears when LCD screen is ON.
5. Temperature ----- Appears during manual operation.
6. Set ----- Appears when adjusting the desired timer setting.

SETTING °FAHRENHEIT / °CELSIUS SCALE

The factory setting for temperature is °F. To change the displayed temperature scale, press the ON and OFF keys at the same time. Follow this same procedure to return to °F.



MANUAL FUNCTION

ON OPERATION:

Press the ON key to turn the appliance ON. (The flame icon will appear on the LCD screen).



ON MODE

OFF OPERATION:

Press the OFF key to turn the appliance OFF. (The flame icon will disappear from the LCD screen).



OFF MODE

TIMER FUNCTION

- Press the ON button to start the appliance.
- Press the TIMER button. The LCD screen will show the word set.
- Press the SET button until the desired time is reached (15 min. - 180 min. in 15 minute increments). The max setting time is 3 hours.
- NOTE: The LCD display will flash the set time for 6-seconds, then start the countdown.
- Press the OFF button to turn OFF the timer, and the appliance.



SET MODE



COUNT DOWN MODE

LEARNING TRANSMITTER TO RECEIVER

Each transmitter uses a unique security code. It will be necessary to press the LEARN button on the receiver to accept the transmitter security code upon initial use, if batteries are replaced, or if a replacement transmitter is purchased from your dealer or the factory. In order for the receiver to accept the transmitter security code, be sure the slide button on the receiver is in the REMOTE position; the receiver will not LEARN if the slide switch is in the ON or OFF position. The LEARN button is located on the front face of the receiver; inside the small hole labeled LEARN. Using a small screwdriver or end of a paperclip gently press and release the black LEARN button inside the hole. When you release the LEARN button the receiver will emit an audible "beep". After the receiver emits the beep press the transmitter ON button and release. The receiver will emit several beeps indicating that the transmitter's code has been accepted into the receiver.

MAINTENANCE

Burning Grand Canyon Gas Logs for any length of time will cause the logs to soot. Soot only accumulates on the log therefore the burner will not need cleaning. Soot is caused by incomplete combustion of the gas leaving behind a dark dense material. Soot will also accumulate on the logs if the logs are not placed in the proper position according to the log placement diagrams. To clean off soot use an old tooth brush and gently rub away the soot. Periodic examination and cleaning of the venting system and the solid fuel-burning fireplace, including frequency of such examination and cleaning, by a qualified agency. Periodic examination of the pilot assembly should be in accordance with the provided picture.



LOG PLACEMENT

AZ WEATHERED OAK 24" LOG PLACEMENT GUIDE



WARRANTY

Refractory Logs: Grand Canyon Gas Logs, logs carry a lifetime warranty against any manufacture defects or breakage as long as the products are installed inside. In the event defect or breakage occurs a replacement will be available to pick-up from the dealer at which the log set was originally purchased. This warranty does not cover breakage caused by excessive handling once installed and fired. Logs installed outdoors carry a (1) year warranty. This warranty is limited to original purchaser only.

Burner: Grand Canyon Gas Logs burners carry a life time warranty against manufacture defects or breakage as long as the appliance is installed inside and by a professional installer. In the event a defect or breakage occurs a replacement will be available for pick-up from the dealer at which the burner was originally purchased. Burners installed outside carry a (1) year warranty. This warranty is limited to original purchaser only.

Electrical and Valves: Grand Canyon Gas Logs valves, pilot assemblies and electrical components carry a (2) year warranty against breakage or defects from date of purchase, by original purchaser, and must be installed be a licensed professional installer. This warranty only covers use with Grand Canyon Gas Logs burners and logs in the event a defect or breakage occurs a replacement will be available for pick-up from the dealer at which the burner was originally purchased. Products installed outdoor carry a (1) year warranty.