

INSTALLATION AND OPERATION GUIDE FOR HARGROVE VENTED GAS LOGS

PO

DEI Variable Flame Electronic Ignition Valve Parts-Only Kit (DEI-PO)

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

FOR YOUR SAFETY

WHAT TO DO IF YOU SMELL GAS

1. Open windows.
2. Extinguish all open flames.
3. Do not try to light any appliance.
4. Do not touch any electrical switch; do not use the phone in your building.
5. Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
6. If you cannot reach your gas supplier, call the fire department.

WARNING

To avoid a potential fire hazard, do not disassemble or attempt to repair the safety gas valve. Disassembly, reassembly or internal adjustment could cause the valve to malfunction, resulting in property damage, personal injury, or death. If the control valve does not operate properly following the installation or service, replace the unit.

FOR YOUR SAFETY

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE LIQUIDS OR FLAMMABLE VAPORS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

CAUTIONS

1. This valve should be installed only by a qualified service technician trained in gas safety equipment.
2. Turn off the gas supply before installing the valve.
3. All piping must meet applicable local codes and ordinances and the National Fuel Gas Code (ANSI Z223.1/NFPA NO.54)
4. All wiring must meet the applicable electrical codes and ordinances.
5. Assure that the complete system is operating according to the manufacturer's instructions after installing the Parts Only Kit.
6. Prior to installation, verify conformance with the log unit's installation instructions.
7. Assure that all the piping is free of any foreign matter.

INSTALLING A HARGROVE SAFETY GAS VALVE IN A LOCATION OTHER THAN SPECIFIED IN THIS MANUAL WILL VOID THE WARRANTY EXCEPT WHEN THE SAFETY GAS VALVE IS INSTALLED OUTSIDE THE FIREBOX IN A SAFE AND PROPER INSTALLATION AND ACCESS IS PROVIDED FOR MAINTENANCE AND REPAIR OF THE SYSTEM. A QUALIFIED INSTALLER MUST MAKE INSTALLATION AND ADJUSTMENTS.

FOR YOUR SAFETY

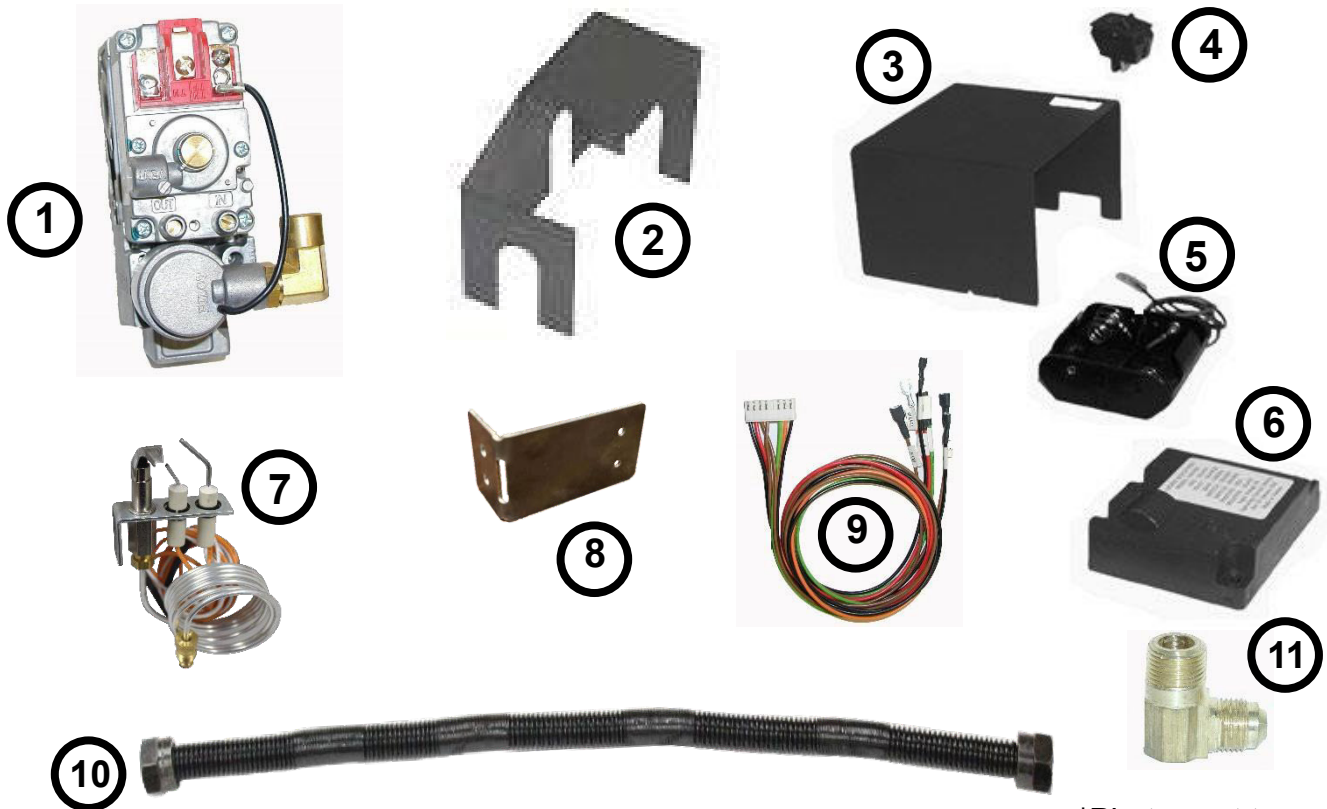
WARNING: If you do not follow these instructions exactly, a fire or explosion may occur resulting in property damage, personal injury, or loss of life.



We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.



PARTS LIST



*Photos not to scale

ITEM	PART NUMBER	DESCRIPTION
1	DEI-V	Electronic Ignition Valve
2	HSRS225	Valve Heat Shield
3	DEI-CHS	Control Module Heat Shield
4	RS	On/Off Switch
5	DXBP	Battery Pack
6	DXICM	I/C Module
7	AFPI-48	Pilot Assembly 48" Leads
8	DEI-PB	Pilot Mounting Bracket (optional)
9	DXWH	Wiring Harness
10	FCNW-18	Non-Whistling Gas Flex Connector
11	49-6 (2)	Brass Elbow

NOTE: Replacement parts can be ordered from your local Hargrove dealer.

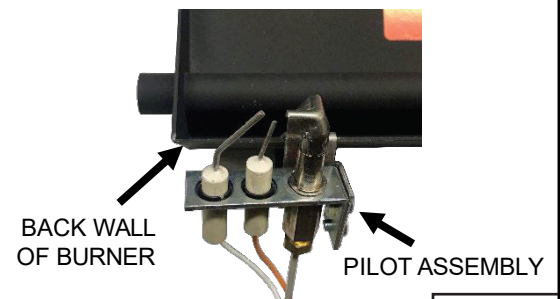
PILOT CONNECTION

Attach the small side of the pilot bracket (DEI-PB) to the predrilled holes on the back wall of the burner pan using the screws provided.

Attach the pilot assembly (AFPI-48) to the pilot bracket.

IMPORTANT: The pilot assembly should be mounted on the outside of the burner pan.

TOP VIEW OF PILOT ASSEMBLY



VALVE CONNECTION

Attach the 49-6-6Z2 (included in the burner kit box) brass fitting to the burner pipe extending out of the right side of the burner pan (the same side that the pilot is mounted on).

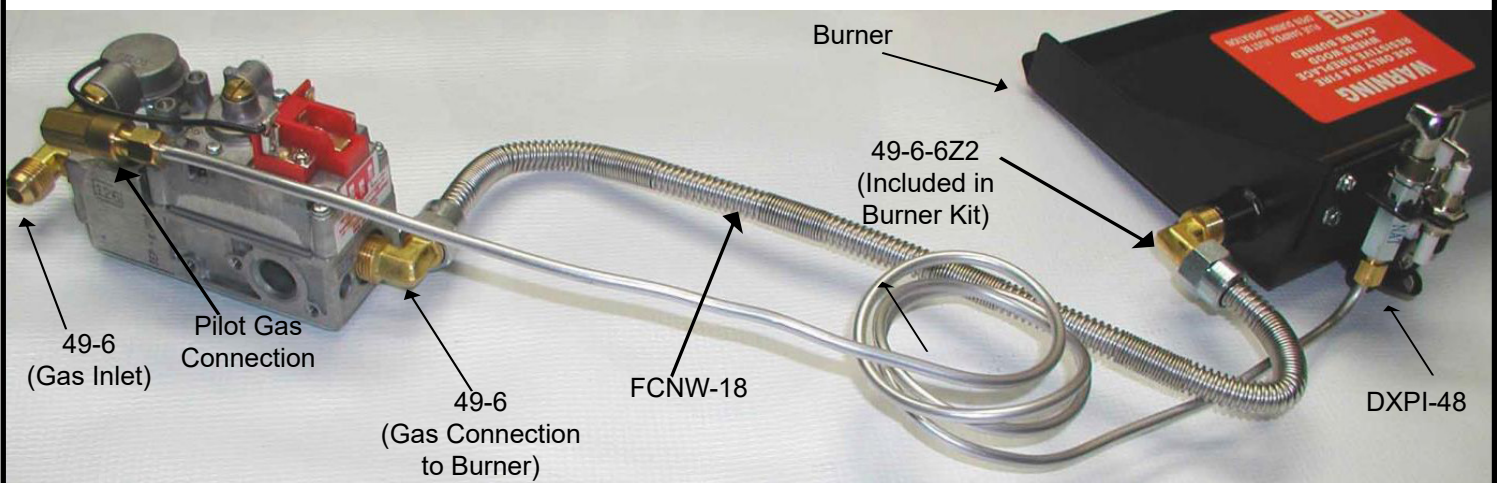
Attach the 49-6 into the OUTLET end of the DEI-V valve.

Attach the FCNW-18 to the 49-6-6Z2 on the end of the pan.

Attach the 49-6 to the INLET (marked "IN" on the valve body) end of the DEI-V valve.

Connect the pilot tubing from the AFPI-48 to the elbow fitting on the top of the DEI-V valve.

Connect the Gas Supply to the 49-6 (on the valve) and to the gas inlet pipe that comes into the fireplace (connector included in the Burner Kit box, not this kit).



WIRING DIAGRAMS

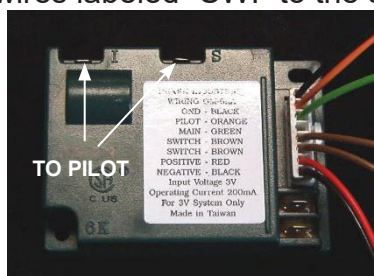
Attach the large white plug on the DXWH (wire harness) to the DXICM (I/C Module).

Attach the orange wire from the Pilot Assembly (ignitor) to the terminal labeled "I" on the DXICM.

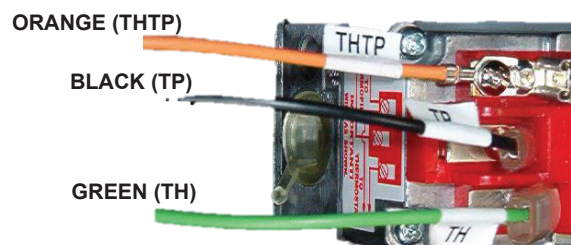
Attach the white wire from the Pilot Assembly (heat sensor) to the terminal labeled "S" on the DXICM.

From the DXWH (wire harness) attach the:

- Orange wire labeled "THTP" to the terminal on the valve labeled "THTP."
- Green wire labeled "TH" to the terminal on the valve labeled "TH."
- Black wire labeled "TP" to the terminal on the valve labeled "TP."
- Red wire labeled "+" to the Red wire on the DXBP (battery pack).
- Black wire labeled "-" to the Black wire on the DXBP (battery pack).
- Brown wires labeled "SWI" to the switching device (remote control, wall switch, etc.) you will use.



DXWH
WIRE HARNESS



MODULE/BATTERY LOCATION

The Control Module and Battery Pack are sensitive to heat. Proper placement will help keep them from malfunctioning due to excess heat.

See the "Parts List" pictures to see how to properly place the Control Module and Battery Pack under the Heat Shield.

The best location for the Control Module Assembly is outside of the fireplace, on the hearth, or in a cavity that is accessible next to the fireplace.

It is possible for the Control Module Assembly to be located inside the fireplace if it is in the far right or left corner close to the front opening of the fireplace. If nuisance operation problems arise the Control Module Assembly may have to be moved onto the hearth.



LIGHTING THE BURNER SYSTEM

Make sure all gas connection fittings and wire connections are secure and safe for ignition.

- Set the Switching Device (Switch on Control Module Heat Shield, Remote Control, or Wall Switch) to call for heat (ON position).
- Watch and listen for a spark at the Pilot Assembly.
- Pilot should light within a few seconds (if the pilot does not light within 10 seconds you may have to bleed the gas line to get the air out of the gas inlet pipe).
- Once the pilot lights, the heat sensor (straight rod next to the pilot hood) will heat up and then activate the gas to the main burner.
- When gas begins to flow to the main burner the pilot will light the burner gas and remain in operation during the operation cycle.
- When the switching device is turned to the OFF position the main burner flame and pilot flame will shut down.

TROUBLESHOOTING

1. Main flame will shut off then cycle back on again.

- This could be caused by poorly grounded system. If the system has a bad ground it can cause the valve to turn off the cycle back on again. Check the Valve and Pilot to insure that they are secure. Also check black wire to valve for tight connection.
- This can be caused by not enough heat to the Sensor Rod causing the system to turn off the cycle back on again. Check sensor rod to insure it is in the pilot flame and is glowing.

2. Pilot and or Main flame won't light but there is spark at pilot hood

- This could be caused by the Orange and or Green wires spades have a poor connection at terminal block. Remove the wires from valve and tighten the female spades on the wire assembly.
- This could be caused by a bad solenoid. To check solenoid remove the wires from the solenoid and check the Ohms with a multi-meter. The readings should be for Pilot = 0.037ohms.

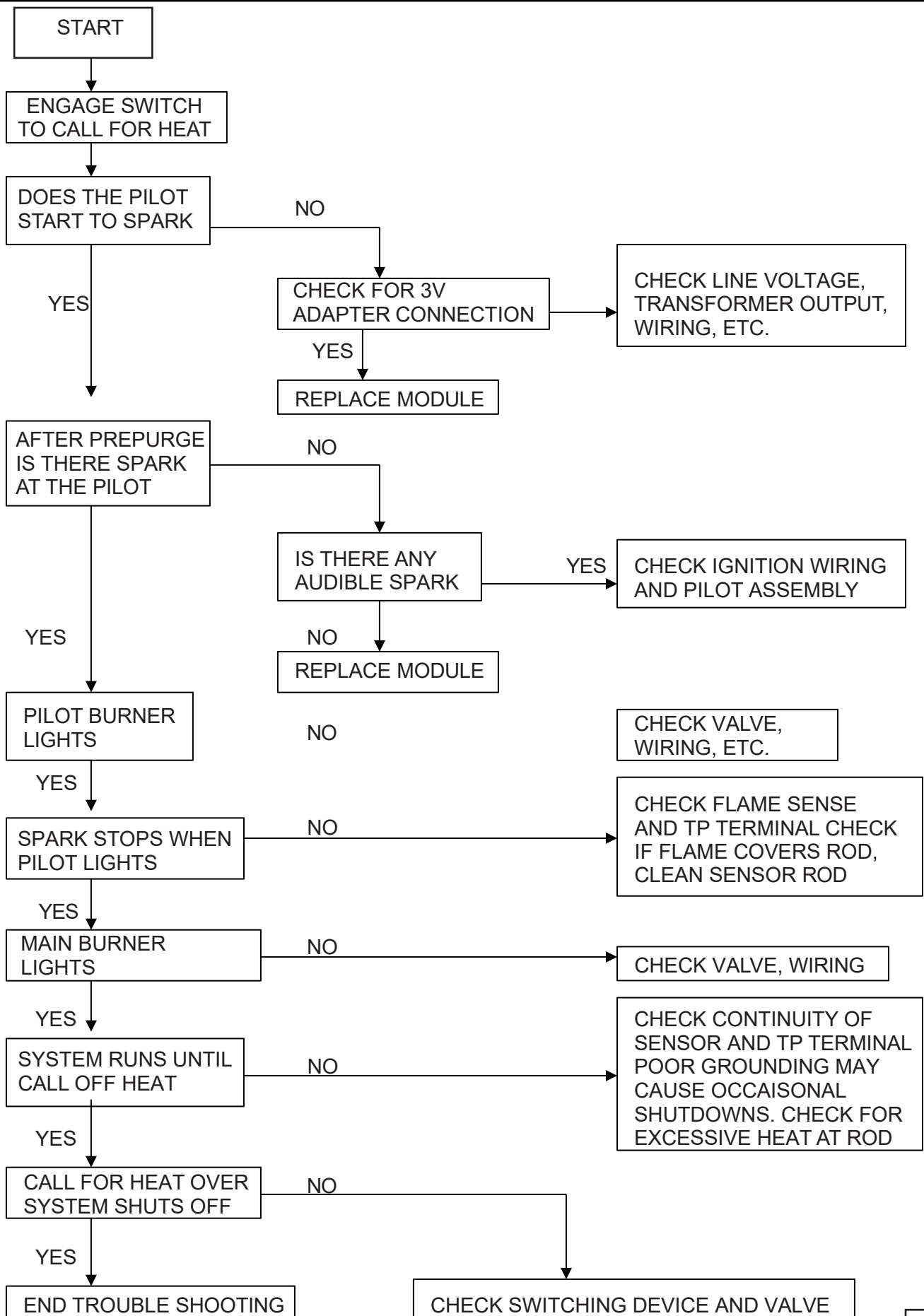
3. Can hear spark, but no spark is visible at pilot hood.

- This could be caused by bad connection of ignition wire at module.
- This could be caused by improper spark gap between igniter rod and pilot hood it should be no greater than 0.25" gap.
- This could be caused by cracked ceramic on ignition rod. This would arc at the crack to the nearest ground.

4. Turn system on and there is no spark.

- This could be caused by no line power from adapter. Check the adapters output with a multi-meter set on A/C it should read 3.0+ volts if not check j-box for output. If output at j-box replace the adapter.
- This could be caused by no D/C power from batteries. Check the connections from battery pack to the module. Check output to RED & BLACK wires at spade connections from battery pack with multi-meter on D/C setting it should be 3.0+ volts. If power present at connections remove the harness plug from module check RED & BLACK females on harness plug for voltage output. If you have voltage at the spade connection and none at the plug replace wire harness.

TROUBLESHOOTING CHART



LIMITED WARRANTY

Refractory and Ceramic Fiber Logs

Hargrove gas logs carry a limited lifetime warranty against any manufactured defect or breakage. This warranty does not cover breakage caused by excessive handling once installed and fired. Contact Customer Service for warranty claim details.

Burner & Grate

If the burner or grate fails due to deterioration within five (5) years of the verified purchase date, contact Customer Service for warranty claim details.

Valves, Remote Controls, & Switching Devices

All valves, remote controls and switching devices are warranted 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 the 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 years of the verified purchase date, contact Customer Service for warranty claim details

Buyer shall notify Customer Service 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 all claims by the buyer because 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.

CONTACT INFO: Hargrove Gas Logs
Wellston Park Rd. – Sand Springs, OK 74063
Toll Free – (800)725-4166
www.hargrovegaslogs.com

Customer Service hours: 8:00am to 4:00pm CST