

# **HARGROVE GAS LOGS**

## **ELECTRONIC IGNITION GAS VALVE SYSTEM**

Model # - DEI-PO

# **INSTALLATION INSTRUCTIONS**



This gas pilot safety valve provides 100% shut-off of both pilot and main burner gas supply in the event of pilot flame failure. The 3V system utilizes a regulated gas valve with Electronic Ignition attached with either AC or DC power and Switching Device to control it as an automatic flame-producing device with or without external electricity.

If the pilot flame goes out during normal operation, or if the pilot flame does not cover the sensor rod, the safety valve will close stopping the flow of all gas. This valve is designed for use on domestic heating gases up to ½” PSI.

### **FOR YOUR SAFETY**

#### **IF YOU SMELL GAS:**

- 1. OPEN WINDOWS**
- 2. DON'T TOUCH ELECTRICAL SWITCHES**
- 3. EXTINGUISH ALL OPEN FLAMES**
- 4. IMMEDIATELY CALL YOUR GAS SUPPLIER**

### **CAUTIONS**

- 1. This valve should be installed only by an experienced service technician trained in gas safety equipment.**
- 2. Turn off gas supply before installing 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 applicable electrical codes and ordinances.**
- 5. Check out the complete system after installing the valve.**
- 6. Prior to installation, verify conformance with burner manufacturer's installation instructions.**
- 7. Make sure all piping is free of foreign matter.**

**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 VICINITY OF THIS OR ANY OTHER APPLIANCE.**

# INSTALLATION INSTRUCTIONS

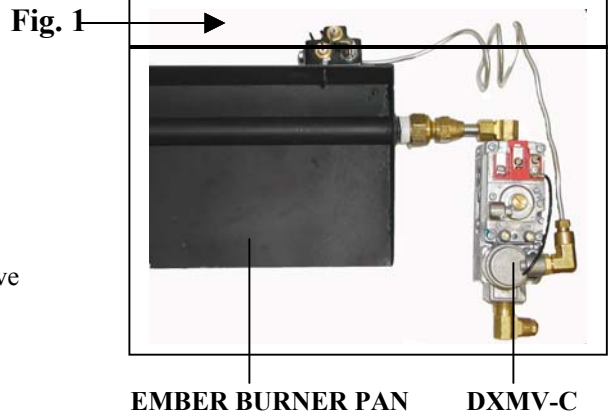
## **! WARNING !**

**Fire hazard. Do not disassemble or attempt to repair this unit. Disassembly, reassembly or internal adjustment could cause valve to malfunction, resulting in personal injury, death or property damage. If the control valve does not operate properly following installation or service, replace this unit.**

**WARNING:** Valve may not shut off if gas flow is not in direction of arrow on valve body.

**WARNING:** Warranty is void if the DXMV-C is installed behind the burner pan in the fireplace. This valve system can be installed outside of the fireplace.

**DO NOT INSTALL DXMV-C VALVE BEHIND THE EMBER BURNER PAN IN THE FIREPLACE. DXMV-C VALVE MAY OVERHEAT. Fig. 1**



### Parts List

Parts List	Description
1. DXMV-C	Electronic Ignition Safety Valve
2. DXICM	I/C Module
3. DXBP	Battery Pack
4. DXWH	Wire Harness
5. DXPI-48	Pilot Assembly – 48” leads
6. DEI-PB	Pilot Assembly mounting bracket
7. HRSR225	Safety Valve Heat Shield
8. SW-HSR225 (not pictured)	Superwool Insulation for HSR225 Heat Shield
9. DEI-CHS	Heat Shield for I/C Module & Battery Pack
10. SW-DEI-CHS (not pictured)	Superwool Insulation for DEI-CHS Heat Shield
11. 41S-6	3/8” Brass Flare Nut
12. 46-6-8	1/2”FIP X 3/8”FL Brass
13. 49-6	3/8”MIP X 3/8”FL Brass Elbow
14. 69-6	3/8” x 3/8” Compression Brass Elbow
15. SC-1	1” Stainless Steel tubing
16. RS	On/Off switch - attaches to I/C Module Heat Shield
17. #8 X 1/2” screws	Qty. 4 - Screws used for pilot assembly and pilot bracket



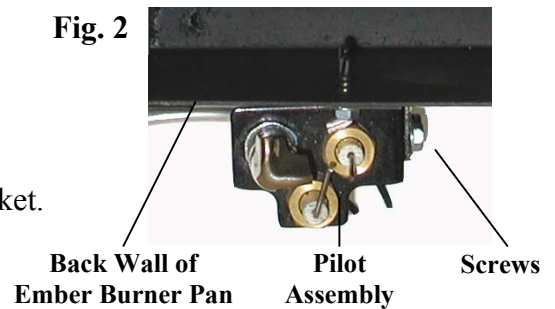
# INSTALLATION INSTRUCTIONS

## BURNER ASSEMBLY (Figure 2 & 3)

1. Attach the small side of the Pilot Bracket (DEI-PB) to the pre-drilled holes on the back wall of the Ember Burner Pan using two of the #8 X 1/2" screws. **IMPORTANT:** The Pilot assembly should be mounted on the outside of the pan.
2. Next, attach the Pilot Assembly (DXPI-48) to the Pilot Bracket. (See Figure 2)
3. Attach the 46-6-8 brass fitting to the burner pipe extending out of the right side of the burner pan (same end that the pilot is mounted on).
4. Slide the 41S-6 brass fitting on the SC-1 tube with the open end of the 41S-6 facing toward the flared end of the SC-1.
5. Tighten the 69-6 compression sleeve onto the SC-1.
6. Attach the 69-6 into the OUTLET end of the DXMV-C valve.
7. Attach the 41S-6 flared fitting to the 46-6-8 on the end of the pan.
8. Attach the 49-6 to the INLET (marked IN on the valve body) end of the DXMV-C valve.
9. Connect the pilot tubing from the DXPI-48 to the elbow fitting on the top of the DXMV-C valve.
10. Connect the AC-18 to the 49-6 (on the valve) and to the gas inlet pipe that comes into the fireplace.

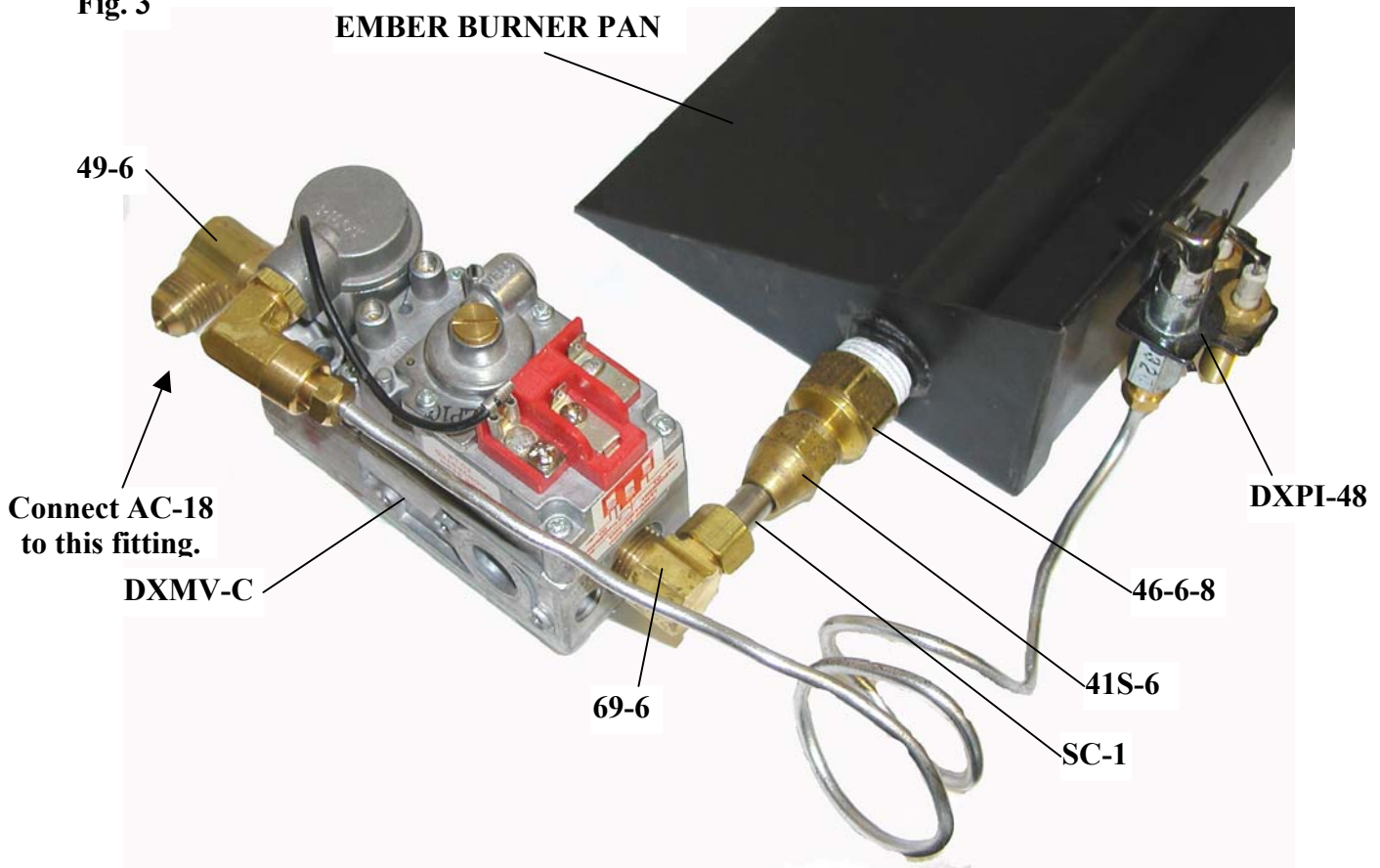
### TOP VIEW OF PILOT ASSEMBLY

Fig. 2



### TOP VIEW OF BURNER ASSEMBLY

Fig. 3

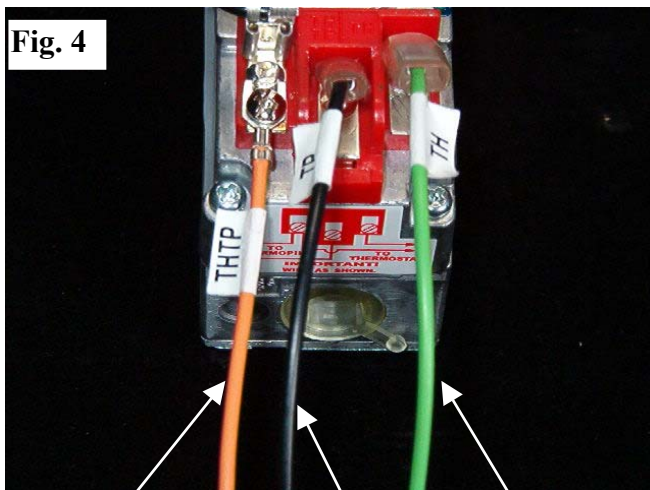


# INSTALLATION INSTRUCTIONS

## CONTROL MODULE ASSEMBLY (Figure 4 & 5)

1. Attach the large white plug on the DXWH (wire harness) to the DXICM (I/C Module).(Fig. 5)
2. Attach the wire from the Pilot Assembly labeled “I” (ignitor) to the terminal labeled “I” on the DXICM.
3. Attach the wire from the Pilot Assembly labeled “S” (heat sensor) to the terminal labeled “S” on the DXICM.
4. From the DXWH (wire harness) attach the:
  - a. Orange wire labeled “THTP” to the terminal on the valve labeled “THTP”.
  - b. Green wire labeled “TH” to the terminal on the valve labeled “TH”.
  - c. Black wire labeled “TP” to the terminal on the valve labeled “TP”.
  - d. Red wire labeled “+” to the Red wire on the DXBP (battery pack).
  - e. Black wire labeled “-“ to the Black wire on the DXBP (battery pack).
  - f. Brown wires (2) labeled “SWI” to switching device (remote control, wall switch, etc.) you will be using.

### WIRING TO VALVE

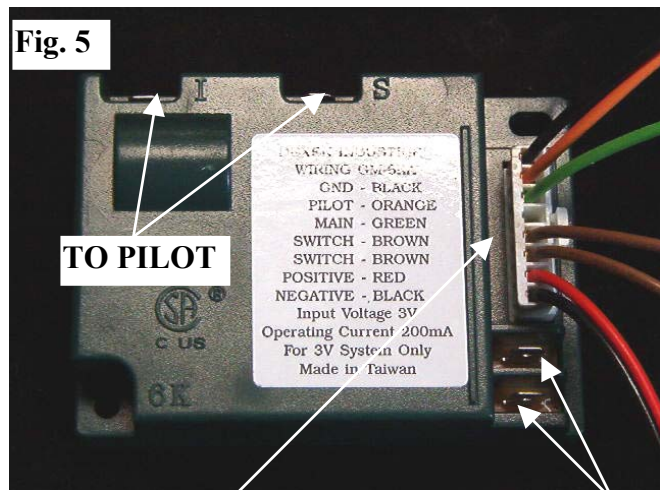


**ORANGE**  
“THTP”

**BLACK**  
“TP”

**GREEN**  
“TH”

### WIRING TO CONTROL MODULE



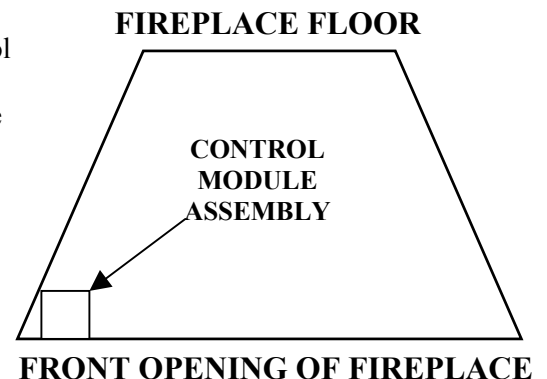
**DXWH – WIRE**  
**HARNESS**

**TO A/C**  
**ADAPTER**

## CONTROL MODULE AND BATTERY PACK PLACEMENT

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

1. See the “Parts List” pictures to see how to properly place the Control Module and Battery Pack under the Heat Shield.
2. The best location for the Control Module Assembly is outside of the fireplace – 1. On the hearth or 2. In a cavity that is accessible next to the fireplace.
3. 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 INSTRUCTIONS

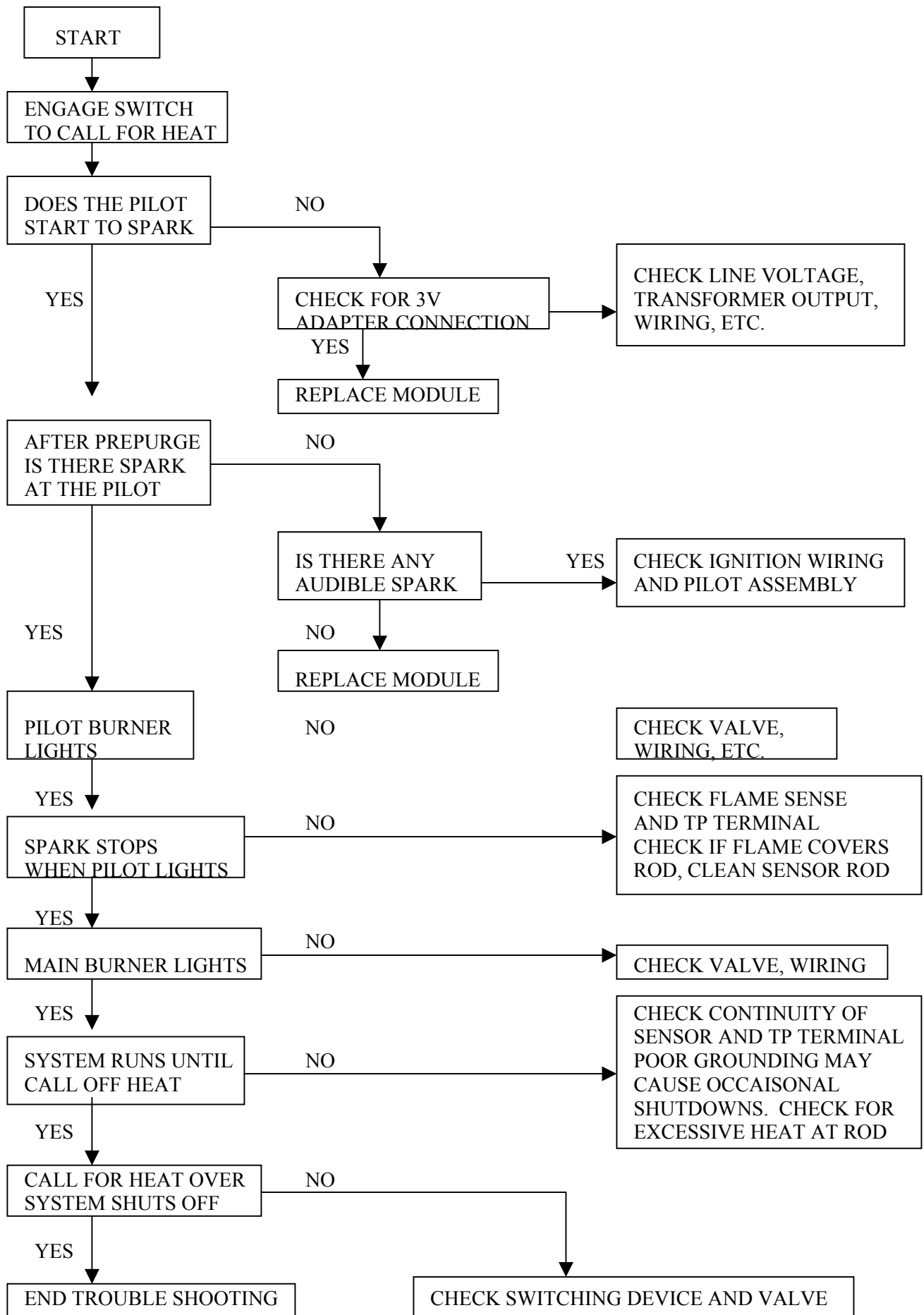
## LIGHTING THE BURNER SYSTEM

1. **Make sure all gas connection fittings and wire connections are secure and safe for ignition.**
2. Set the Switching Device (Switch on Control Module Heat Shield, Remote Control, or Wall Switch) to call for heat (ON position).
3. Watch and listen for a spark at the Pilot Assembly.
4. 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).
5. 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.
6. When gas begins to flow to the main burner the pilot will light the burner gas and remain in operation during the operation cycle.
7. When the switching device is turned to the OFF position the main burner flame and pilot flame will shut down.
8. Follow Steps 2 through 6 to re-ignite the pilot and burner system.

## DEI-PO TROUBLE SHOOTING

1. **Main flame will shut off the cycle back on again.**
  - A) 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.
  - B) 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**
  - A) 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.
  - B) 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.**
  - A) This could be caused by bad connection of ignition wire at module.
  - B) This could be caused by improper spark gap between igniter rod and pilot hood it should be no greater than 0.25" gap.
  - C) 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.**
  - A) 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.
  - B) 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.

# DEL-PO TROUBLE SHOOTING CHART



## LIMITED WARRANTY

### Refractory Logs

Hargrove gas logs carry a limited lifetime warranty against any manufactured defect or breakage when installed indoors. A replacement will be available from the dealer at which the appliance was purchased. This warranty does not cover breakage caused by excessive handling once installed and fired. Outdoor applications carry a one (1) year limited warranty.

### Burner & Grate

If the burner or grate fails due to deterioration within two (2) years of the verified purchase date, a free replacement will be made available from the dealer at which the appliance was purchased.

### Valves, Remote Controls, & Switching Devices

Hargrove warrants all valves, remote controls and switching devices against manufacturing defects, which appear within two (2) years of the verified purchase date. Warranty does not cover products that have been damaged by misuse from overheating. Before any product is returned a Return Goods Authorization number (RGA) must be issued by Hargrove's Customer Service Department. All returns must be accompanied by an explanation of the problem and all necessary parts.

### All Other Parts

If any assembled part should fail to operate or be found defective which appear within two (2) years of the verified purchase date, a replacement will be available from the dealer at which the appliance was purchased.

Buyer shall notify Hargrove Mfg Corp. of any defect covered by this warranty no later than thirty (30) days after defect is discovered. Failure to provide notice within thirty (30) days shall void the limited warranty.

### WHAT IS NOT COVERED

1. Removal and reinstallation costs.
2. Labor costs for replacement or repairs.
3. Transportation or shipping cost.
4. The cost of a service call to diagnose trouble.
5. Painted Surfaces.
6. Damage or defect caused by improper installation, accident, misuse, abuse, alteration, or authorized service technician.
7. Replacement of burner or combustion chamber resulting from improper storage of the appliance.

### LIMITATIONS AND EXCLUSIONS

1. No one has authority to add to or vary this limited warranty, or to create for Hargrove Manufacturing Corporation any other obligation or liability in connection with this appliance.
2. Any implied warranty applicable to this appliance is limited in duration to the same period of time as this written Warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.
3. HARGROVE MANUFACTURING CORPORATION WILL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, SPECIAL OR CONTINGENT DAMAGES YOU MIGHT SUFFER AS A RESULT OF A CLAIM UNDER THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusion may not apply to you.
4. This warranty applies only to the original purchaser and may not be transferred or assigned.
5. If you cannot verify the purchase date of the appliance, the warranty period will begin on the date of which the appliance was manufactured.
6. Replacement or repair parts are warranted for the remaining period of the original part warranty. Warranty parts must be obtained through authorized dealers of this product who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty.
7. The maximum liability of Hargrove Mfg Corp. in connection with this limited warranty shall not in any case exceed the contract price paid for the product claimed to be defective or unsuitable.
8. Purchaser or user agrees to hold Hargrove Mfg Corp. harmless from any and all claims by the buyer as a result of injury or damage to an ultimate user or other person caused by the product sold herein by the seller to the buyer, whether the injury or damage results from the assembly, installation, operation, shipment, storage, or manufacture of this product. Hargrove Mfg Corp. makes no warranties, expressed or implied, other than those expressly stated herein.

### YOUR DUTIES

This appliance must be installed by a qualified installer, operated and maintained in accordance with all applicable codes and the instructions furnished with the appliance. You must provide a receipt verifying the purchase date of the appliance when making a warranty claim with the dealer from which the appliance was purchased.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

**To register your Hargrove product, please visit our website at <http://www.hargrovegaslogs.com/reg.htm>.**

**CONTACT INFO: Hargrove Manufacturing Corp. Tele: (800) 725-4166**