ANSI

INSTALLATION AND OPERATION GUIDE FOR

HARGROVE VENTED GAS LOGS

Pinnacle Burner with MEI Electronic Ignition Valve (3F)

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED www.nficertified.org

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.

DESIGN CERTIFIED to ANSI Z21.60
Vented Decorative Appliance for Installation in Solid-Fuel Burning Fireplaces.

PFS® C US

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

NOTE: ADEQUATE FIREPLACE VENTILATION IS REQUIRED FOR SAFETY.
READ INSTRUCTIONS FULLY BEFORE INSTALLING OR OPERATING.
INSTALLER: LEAVE THIS MANUAL WITH THE APPLIANCE.
CONSUMER: RETAIN THIS MANUAL FOR FUTURE REFERENCE.

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.

WHAT TO DO IF YOU SMELL GAS

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

FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

IMPORTANT: Installation and service must be performed by a qualified professional installer, service agency, or the gas supplier.

NOTE: This appliance is only for use with the type of gas indicated on the rating plate.

Solid fuels shall not be burned in a fireplace where a decorative appliance is installed.

This Hargrove vented gas log set is to be installed only in a solid-fuel burning fireplace with a working flue and constructed of noncombustible material. The installation, including provisions for combustion and ventilation air must conform to 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 code. A damper clamp is included to maintain the minimum permanent vent opening and to prevent full closure of the damper blade. The gas log set must be burned with the **damper completely open** **(In the Commonwealth of Massachusetts the damper must either be welded in the fully open position or completely removed)** and the chimney free of any obstructions or restrictions.

The realistic yellow flame produces carbon monoxide and soot. Under normal conditions, these products are exhausted up the chimney. If fumes or soot, from the gas burning, are evident in the room when the damper is fully open it indicates that the fireplace draft is defective. Do not operate your gas log set until the fireplace draft is corrected. **It is the homeowners responsibility to assure their fireplace has adequate draft.**

IMPORTANT PRE-INSTALLATION AND FIREPLACE SAFETY INFORMATION

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

1. It is recommended that adults be present when this gas appliance is operating. It is recommended that this unit is not left burning when unattended or while anyone is sleeping.

2. Do not use a natural gas set for propane or a propane set for natural gas. If the gas type is not correct. DO NOT INSTALL. Contact your dealer for immediate assistance.

3. There are many different local codes for gas fire logs. The installation and the provision for combustion and ventilation air must conform to local codes and, or in the absence of local codes, with the National Fuel Gas Code ANSI Z223.1 – (most current revision).

4. Gas log sets must be installed by personnel qualified for installing gas appliances.

5. This appliance must be installed only in a solid-fuel burning fireplace with a working flue and constructed of noncombustible materials. Solid fuels are not to be burned in a fireplace where a decorative appliance has been installed.

6. A permanent free opening must be provided by either the fireplace chimney or chimney damper to vent flue gasses. Any chimney damper must be fixed in a manner, which will maintain the permanent free opening at all times. Use Table II to determine the minimum permanent free opening based on chimney height and the appliance Btu input rating. Refer to the Damper Stop section for additional directions.

7. The minimum free opening is based only on two factors; chimney height and Btu input rating. Many other factors affect the fireplace drafting. It is the homeowner's responsibility to assure their fireplace has adequate draft. If fumes or soot from the gas burning are evident in the room when the damper is fully open, it indicates that the fireplace draft is defective. Do not operate your gas log set until the fireplace draft is corrected. Consult your fireplace specialist.

8. A fireplace screen must be in place when the appliance is operating and, unless other provisions for combustion air are provided, the screen shall have an opening(s) for introduction of combustion air.

9. When glass fireplace doors are used, always operate gas log set with the doors fully open to allow for proper combustion air and to keep control valves from overheating.

10. The minimum inlet supply pressure for input adjustment is 5.0 inches (natural gas) 11 inches (propane gas) in water column. The maximum inlet supply pressure is 10.5 inches (natural gas) 13 inches (propane gas) in water column.

11. 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 more than 1/2 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 1/2 psig (3.5kPa).

12. The fireplace chimney or venting system should be examined annually and cleaned as required by a qualified agency.

13. After burning for several hours, the logs become fragile and should not be handled. Knocking or rubbing logs can cause concrete to crumble and is not covered under the warranty.

14. To clean the logs, use a soft dry paintbrush for periodic dusting of the gas fire logs.

15. To clean the burner, shut off the gas supply, remove the burner pan media, and vacuum the burner ports. After cleaning, replace burner pan media and light the pilot according to the lighting instructions.

SPECIFICATIONS AND DIMENSIONS

Each gas log set requires a minimum 16inch front opening height and minimum 10inch depth. To determine the largest set that will fit in a fireplace consult the charts below.

RUMFORD FIREPLACE SIZE CHART

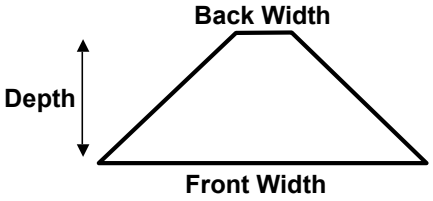


TABLE I

SET SIZE	FRONT WIDTH	REAR WIDTH*	DEPTH	HEIGHT	BTU (NG)	BTU (LP)
12”	24”	13”	10”	16”	38,000	38,000
18”	32”	13”	12”	16”	42,000	42,000
24”	38”	13”	12”	16”	45,000	45,000
30”	44”	15”	14”	16”	50,000	50,000

***At depth listed**

STANDARD FIREPLACE SIZE CHART

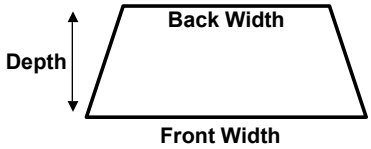


TABLE I

SET SIZE	FRONT WIDTH	REAR WIDTH*	DEPTH	HEIGHT	BTU (NG)	BTU (LP)
12”	22”	16”	10”	16”	38,000	38,000
18”	28”	17”	12”	16”	42,000	42,000
24”	34”	18”	12”	16”	45,000	45,000
30”	40”	20”	14”	16”	50,000	50,000

***At depth listed**

TABLE II

Free opening area of chimney damper for venting combustion products from decorative appliances for installation in vented fireplaces. Minimum size of chimney flue is 8” diameter.

Minimum Permanent Free Opening, Square Inches

Chimney Height (feet)	29	39	51	64
	Appliance Input Rating, BTU Per Hour (w)			
6	34,000	46,400	62,400	80,000
8	37,000	50,400	68,000	86,000
10	40,400	55,800	74,400	96,400
15	44,600	62,400	84,000	108,800
25	50,400	68,400	94,000	122,200
30	55,200	76,800	105,800	138,600

PRE-INSTALLATION CHECKLIST

FIREPLACE AND CHIMNEY

- Fireplace is approved for solid-fuel burning and made of non-combustible materials.
- Operational damper with a chimney free of any obstruction or restriction.
- Fireplace has proper draft to accommodate decorative appliance.
- Fireplace is free from debris or ash.
- Fireplace is free of obstruction such as log grate, log lighter, etc.; that would prohibit the installation of the log set.
- If the floor is recessed or glass doors are installed on the fireplace, the appliance may need to be elevated to ensure proper air flow.
- Consult table to determine if the set is properly sized for the installation in the fireplace.

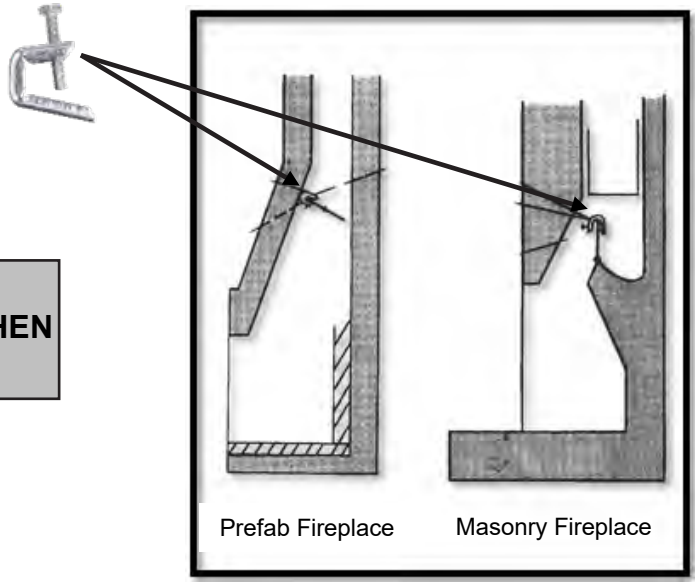
GAS LINE

- Ensure gas line is in safe condition and that it is adequate for the installation.
- Check gas line sizing to ensure it is properly sized for the appliance.
- For ease of installation gas line should be located on the right side of the fireplace when possible.
- Turn the gas supply line off and you are ready to begin burner installation.

DAMPER STOP INSTALLATION

Attach the damper stop clamp to the fireplace damper blade. Position the clamp to prevent full closure of the fireplace damper blade.

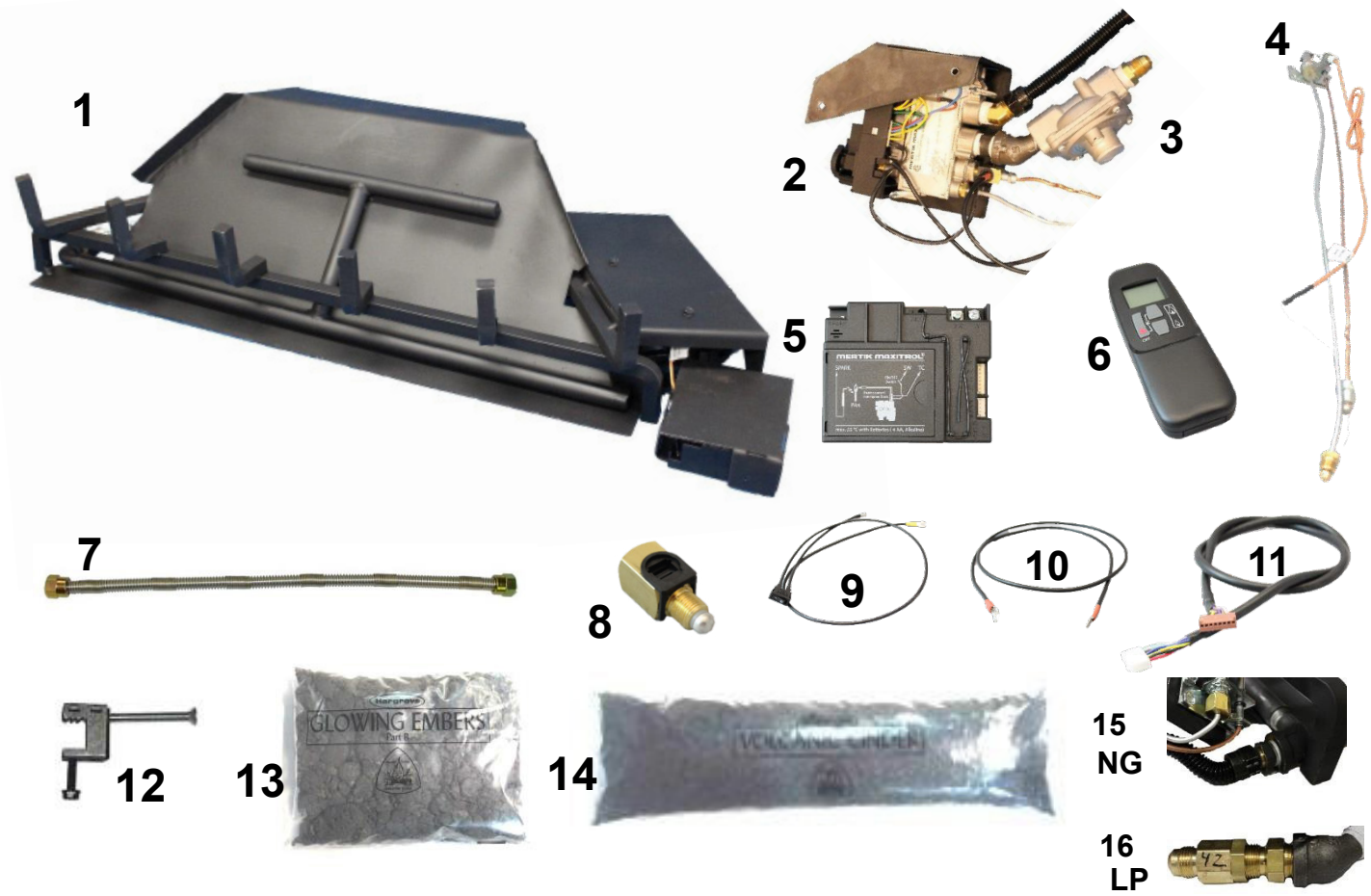
If the damper stop provided does not fit, the installer shall install a permanent damper stop that will keep the damper open to a minimum opening as determined on page 3 Table II of the instructions.



CAUTION
THE DAMPER MUST BE FULLY OPEN WHEN OPERATING THE GAS LOGS!

IMPORTANT: In the Commonwealth of Massachusetts the damper must be either permanently welded in the fully open position or completely removed.

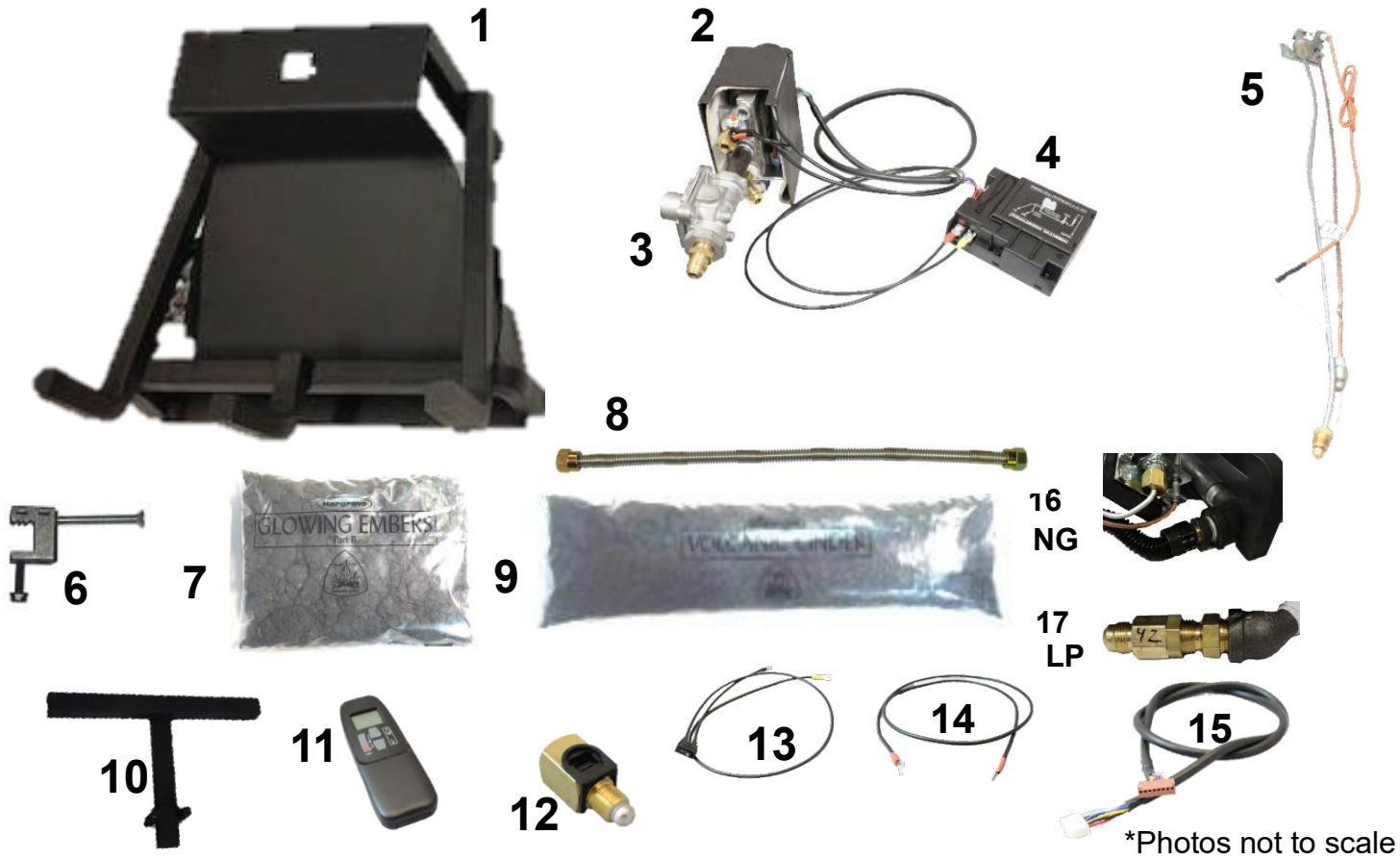
BURNER PARTS LIST
(BURNER MOUNTED VALVE)



ITEM	PART NUMBER	DESCRIPTION
1	RM	Rumford Burner
2	MEI-V	GV-60 Gas Control Valve
3	REG-4	Gas Regulator (NG)
	REG-10	Gas Regulator (LP)
4	MEI-PIL	Pilot Assembly (NG)
	MEI-PIL-LP	Pilot Assembly (LP)
5	MEI-REC	Control Module/Receiver
6	MEI-REM	Remote Transmitter
7	FCNW-18	Non-Whistling Flex Connector
8	MEI-INT	Interrupter Block
9	MEI-SW	Rocker Switch
10	MEI-TC	Thermocouple Connecting Wire
11	MEI-WH	8 Pin Wiring Harness
12	DS	Damper Stop
13	RW	Glowing Embers
14	VC	Volcanic Cinder
15	46-6-6	Brass Orifice
16	AM 3/8x3/8	Air Mixer (LP)

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

BURNER PARTS LIST
(COOL MOUNTED VALVE - 12” ONLY)



*Photos not to scale

ITEM	PART NUMBER	DESCRIPTION
1	RM	Rumford Burner
2	MEI-V	GV-60 Gas Control Valve
3	REG-4	Gas Regulator (NG)
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4	MEI-REC	Pilot Assembly (NG)
5	MEI-PIL	Pilot Assembly (LP)
	MEI-PIL-LP	Control Module/Receiver
6	DS	Damper Stop
7	RW	Glowing Embers
8	FCNW-18	Non-Whistling Flex Connector
9	VC	Volcanic Cinder
10	RM-GRT-EXT	Grate Extension
11	MEI-REM	Remote Transmitter
12	MEI-INT	Interrupter Block
13	MEI-SW	Rocker Switch
14	MEI-TC	Thermocouple Connecting Wire
15	MEI-WH	8 Pin Wiring Harness
16	46-6-6	Brass Orifice
17	AM 3/8x3/8	Air Mixer (LP)

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

BURNER AND GRATE POSITIONING

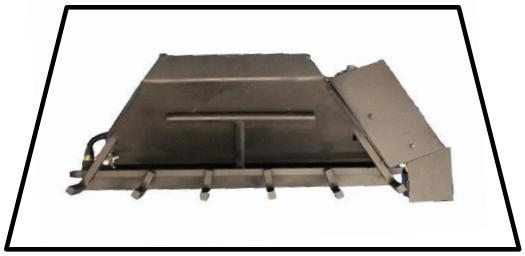
Check that the gas is turned off.
Center the burner on the fireplace floor. The burner should be located under the flue opening.

The grate should be placed over the burner so the front legs of the grate are just in front of the burner pipe. Once the final positioning is established, mark the burner and grate position on the floor of the fireplace for reference points.

Remove the grate and proceed with the gas connection.

NOTE: If the floor is recessed or glass doors are installed, burner must be elevated with firebrick or equivalent to ensure proper air flow over valve systems.

BURNER POSITION
(for burner-mounted valves)



BURNER POSITION
(for cool-mount valves)

GAS CONNECTION

Check that the gas is turned off.
Any remote kits should be installed on the burner at this point, refer to instructions with kit for that installation.

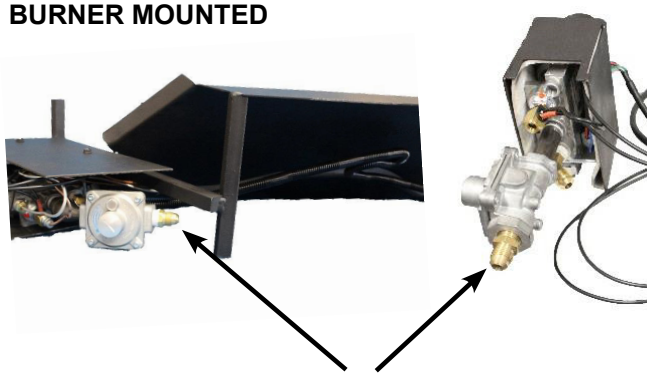
The gas supply line should be ½" inside diameter (ID) up to 30 feet and ¾" for longer distance.

Use the non-whistling flex connector provided in the accessory kit to connect the gas supply to the burner kit. Check to make sure the burner is in the correct position.

Turn the gas supply on and check connection for leaks using a soapy solution.

NOTE: At this point install and program any remote kits, refer to the instructions provided with those kits for installation.

BURNER MOUNTED **COOL MOUNT**



Connect to gas

IMPORTANT: The minimum inlet supply pressure for the purpose of input adjustment is 5.0 inches (natural gas) 11 inches (propane gas) in water column.
The maximum inlet supply pressure is 10.5 inches (natural gas) 13 inches (propane gas) in water column.

GAS VALVE LOCATION - Cool-Mount Valves

The cool mount setup provides flexibility in the location of the gas valve. It can be oriented vertically or horizontally and is made to be located as far away from the burner as possible.

NOTE: To conceal the valve place up against the refractory brick panels, and for even better effect, paint all the fireplace panels black.

VERTICAL

HORIZONTAL

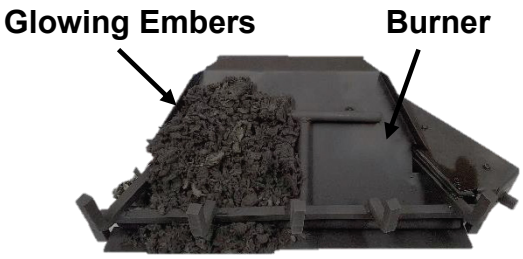
GRATE EXTENSION PLACEMENT

For the Sierra Stack, place the RMGRTEXT into the hole on the top of the burner as shown. The crossbar should be facing the front of the burner and it should be pushed to the front of the hole.

BURNER MEDIA

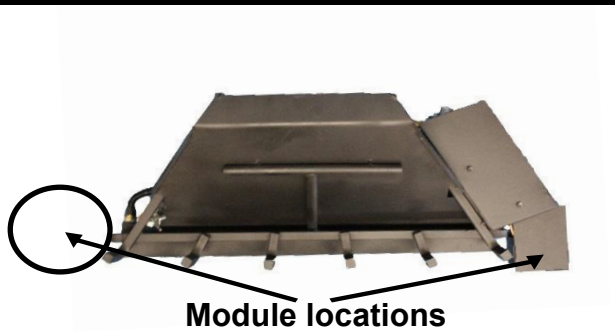
Fill the burner pan with Glowing Embers (Rockwool). For best results pinch off pieces of the Rockwool the size of a dime and feather it out

Test fire the burner once again for flame distribution, media can be altered to achieve desired flame appearance.



CONTROL MODULE POSITIONING

The control module contains (4) AA batteries and should be located in the front corners of the fireplace. Make sure the wires are not pinched and are in good condition away from the burner and main flame.



LOG INSTALLATION

Install the logs based on the installation diagram provided with the logs set, as stated in step 7, for Radiant Heat logs it will be necessary to remove the grate and install the radiant heat bracket (packaged with Radiant Heat logs) onto the back of the burner pan.

Once the logs have all been place you can readjust the grate positioning to get desired flame pattern. When adjusting grate position be careful as the **GRATE WILL BE HOT**, it might be necessary to let it cool between adjustments.

RECOMMENDED BURN-IN PERIOD: Hargrove gas logs are made of special refractory materials, which withstand high temperatures. One characteristic of this material is retention of moisture. For this reason, we recommend burning the logs for only fifteen minutes during the first burning. After allowing the logs to cool for at least one hour, the set can be burned for any length of time.

LIMITED LIFETIME WARRANTY: Hargrove gas logs carry a limited lifetime warranty against breakage in the original fireplace. Warranty does not include labor. This warranty is void if excessive handling after burning causes breakage. All accessories and metal parts carry a two year limited warranty in the original fireplace. Items will be replaced during this period for the cost of shipping.

VOLCANIC CINDER PLACEMENT

The black volcanic cinders are used to cover the fireplace floor, fittings and tubing around the burner system. Although not functional, the back cinders act as a picture frame to show off the glowing embers and yellow flame.

FOR YOUR SAFETY: Do not use this appliance if any part has been underwater. Immediately call a qualified service technician to inspect the appliance and to replace any part of the system or gas control, which has been underwater

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 verity 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

GV60

Remote Electronic Ignition and Control System

ENGLISH – INSTALLATION AND OPERATING INSTRUCTIONS

0085

Precision Engineering for Multiple Markets

MERTIK MAXITROL®

Exclusive Distributor for Maxitrol Company

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ENGLISH

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IMPORTANT SAFETY INFORMATION

⚠ WARNING

Fire or explosion hazard. Read these instructions carefully. Failure to follow them could result in a fire or explosion causing property damage, personal injury, or loss of life. The product must be installed and operated according to all codes and local regulations.

Damper position must be in accordance with Manufacturer's Installation Instructions and all applicable Standards. Failure to follow these Instructions and/ or Standards may cause 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 control or other appliances.

WHAT TO DO IF YOU SMELL GAS

- Do not operate any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately evacuate the area and contact the gas supplier. 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. Installation shall conform with local codes, or in the absence of local codes, in accordance with the National Fuel Gas Code ANSI Z223.1/NFPA 54 or the IFGC or CSA B149.1. All piping and tubing must comply with local codes and ordinances.

Use only your hand to push in or turn the gas control knobs. Never use tools. If a knob will not push in or turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair can result in a fire or explosion.

Do **NOT** use this control or any gas appliance if any part has been under water or in contact with water. Immediately call a qualified service technician to replace the control system and any gas control that has been under water or in contact with water.

⚠ WARNING

ELECTRIC SHOCK HAZARD

- Read these instructions carefully. Failure to follow them could result in property damage, personal injury, or loss of life.
- This control must be electrically wired and operated in accordance with all codes and local regulations. Service and installation must be performed by a trained, experienced service technician.
- Do not use the control if you suspect it may be damaged.

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GENERAL NOTES

Radio Frequency Handset
433.92 MHz for Europe; 315 MHz for U.S. (FCC ID: RTD-G6R) and for Canada (IC: 4943A-G6R).
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTICE

Wiring of valve and receiver must be completed before starting ignition. Failure to do so could damage the electronics.

Batteries – Handset
- 1 x 9 V (quality alkaline recommended).
- Low battery indicator on handsets with display.
- Handsets without display: the red LED gets darker.
- Battery replacement is recommended after 2 years.

Batteries – Receiver
- 4 x 1.5 V "AA" (quality alkaline recommended).
- Low battery indication: frequent beeps for 3 seconds when motor turns.
- An AC Mains Adapter may be used instead of batteries.

NOTICE

Only the Mertik Maxitrol AC Mains Adapter or one preapproved by Mertik Maxitrol can be used. Use of other adaptors can render the system inoperable.

- The module for fan speed control and light/dimmer includes mains power together with batteries in the receiver for automatic backup in case of power outage.
- Without using a mains adapter, battery replacement is recommended at the beginning of each heating season.

NOTICE

The handsets, receivers, wall switches, switch panels and touch pads are not interchangeable with previous electronics (see figure 21).

Figure 21: Previous Handset

NOTICE

Replacement handsets for CSA models also must have the same part number (see label).

SETTING THE ELECTRONICS CODE

(First time use only.)

Radio Frequency Handset
A code is selected automatically for all Mertik Maxitrol electronics from among 65,000 random codes available. The receiver has to learn the code of the handset:

- Press and hold the receiver's reset button (see figure 22) until you hear two (2) beeps. The first beep is short and the second beep is long. After the second beep, release the reset button.
- Within the subsequent 20 seconds press the (small flame) button on the handset until you hear two additional short beeps confirming the code is set. If you hear one long beep, this indicates the code learning sequence has failed or the wiring is incorrect.

NOTE: This is a one time setting only, and is not required after changing the batteries of the handset or receiver.

Figure 22: Receiver Reset Button

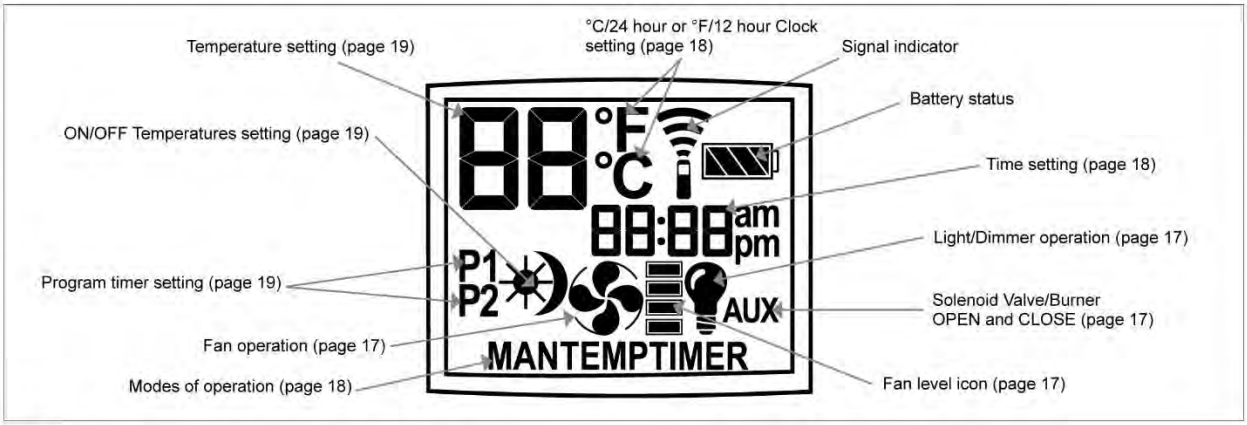

Figure 20

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TO TURN ON APPLIANCE

⚠ WARNING

When pilot ignition is confirmed, motor turns automatically to maximum flame height.

- Turn MANUAL knob to the **ON**, full counterclockwise position.
- Place ON/OFF switch (if equipped) in **I** (**ON** position).

Handset

- Simultaneously press the OFF and (large flame) buttons until a short beep confirms the start sequence has begun; release buttons.
- Continuing beeps confirm the ignition is in process.
- Once pilot ignition is confirmed, there is main gas flow.
- After main burner ignition the handset will automatically go into manual mode (CSA version, CE version).

Wall Switch/ Touch Pad/ Switch Panel

- Press button "B" (see figure 23) until a short beep confirms the start sequence has begun; release button.
- Continuing beeps confirm the ignition is in process.
- Once pilot ignition is confirmed, there is main gas flow.

⚠ WARNING

If the pilot does not stay lit after several tries, turn the main valve knob to **OFF** and follow the instructions "TURN OFF GAS TO APPLIANCE" (page 21).

STANDBY MODE (Pilot Flame)

Handset

- Press and hold (small flame) to set appliance at pilot flame.

Wall Switch/ Touch Pad/ Switch Panel

- Press and hold button "C" (see figure 23) to set appliance at pilot flame.

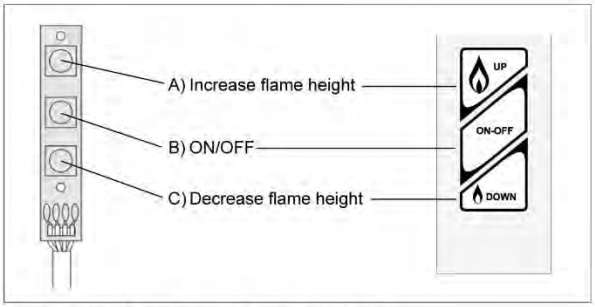

Figure 23: Switch Panel and Wall Switch/Touch Pad

TO TURN OFF APPLIANCE

Handset

- Press **OFF** button.

Wall Switch/ Touch Pad/ Switch Panel

- Press button "B" (see figure 23).

FLAME HEIGHT ADJUSTMENT

Handset

- In standby mode: Press and hold (large flame) button to increase flame height.

- Press and hold (small flame) button to decrease flame height or to set appliance at pilot flame.
- For fine adjustment tap the (large flame) or (small flame) buttons.

Wall Switch/Touch Pad/Switch Panel
(See figure 23)

- Press and hold button "A" to increase flame height.
- Press and hold button "C" to decrease flame height or to set appliance at pilot flame.
- For fine adjustment tap button "A" or "C".

Designated Low Fire and High Fire

- Double-click (small flame) button. "LO" will be displayed.

NOTE: Flame goes to high fire first before going to designated low fire.

- Double-click (large flame) button. Flame automatically goes to high fire. "HI" will be displayed.

⚠ WARNING

If the appliance will not operate, follow the instructions "TURN OFF GAS TO APPLIANCE" (page 21).

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TO OPEN AND CLOSE SOLENOID VALVE/BURNER

NOTE: The latching solenoid valve cannot operate manually. If the battery runs down it will remain in the last operating position. During normal operation the solenoid valve will be reset to the ON position when the GV60 is switched OFF remotely.

Burner OFF

Burner ON

- Upon ignition Main Burner and Decorative Burner are ON.
- Simultaneously press SET and (small flame) buttons to switch the Burner OFF. Printed instructions are on the battery cover (see figure 24).
- Simultaneously press SET and (large flame) buttons to switch Burner ON. (The AUX symbol on the display indicates the solenoid valve is OPEN.)

NOTE: The operation of the AUX is blocked in timer OFF mode, when the setting of the Nighttime Setback Temperature is "--".

Figure 24: Instructions for Latching Solenoid Valve (on battery cover)

LIGHT/DIMMER OPERATION

– Light/Dimmer

- Briefly press SET button to scroll to (light bulb) mode. Light bulb icon flashes.
- Press and hold (large flame) button to turn ON the light or increase brightness.
- Press and hold (small flame) button to decrease brightness.
- In the Light/Dimmer mode, the OFF button shuts OFF the light.
- If you want the light ON but no flame, press and hold the (small flame) button and turn to Pilot flame.

NOTE: The light bulb icon is displayed during light/dimmer setting only. 8 seconds after the light/dimmer has been set, the handset will automatically go into temperature control mode (CSA version) or manual mode (CE version).

CIRCULATING FAN OPERATION

– Circulating Fan

The circulating fan has 4 speed levels from low (1 bar) to high (4 bars).

- Briefly press SET button to scroll to (fan) mode. Fan and Level icons flash.
- Press (large flame) button to switch ON and increase fan speed.
- Press (small flame) button to decrease fan speed. To turn OFF fan, press (small flame) button until all 4 speed level bars disappear.

NOTE: 8 seconds after the fan has been set, the handset will automatically go into temperature control mode (CSA version) or manual mode (CE version). The fan starts 4 minutes after the gas opens (from OFF or from pilot) at maximum speed and goes to the displayed level after 10 seconds. The fan stops 10 minutes after the gas is OFF or at pilot.

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MODES OF OPERATION

- Briefly pressing the SET button changes the mode of operation in the following order:

MAN → ☀ TEMP → 💡 → 🌀 → ☽ TEMP → TIMER → and back to MAN.

NOTE: Manual mode can also be reached by pressing either the 💧 (large flame) or the 💧 (small flame) button.

- MAN – **Manual Mode**
  Manual flame height adjustment.

- ☀ TEMP – **Daytime Temperature Mode** (Appliance must be in standby mode; pilot ignited)
  The room temperature is measured and compared to the set temperature. The flame height is then automatically adjusted to achieve the Daytime Set Temperature.

- 💡 – **Light/Dimmer Setting Mode**
  Turns light/dimmer ON and OFF and adjusts brightness.

- 🌀 – **Circulating Fan Setting Mode**
  Turns circulating fan ON and OFF and adjusts fan speed.

  NOTE: To turn OFF fan press 💧 (small flame) until all 4 speed level bars disappear.

- ☽ TEMP – **Nighttime Setback Temperature Mode** (Appliance must be in standby mode; pilot ignited)
  The room temperature is measured and compared to the Nighttime Setback Temperature. The flame height is then automatically adjusted to achieve the Nighttime Setback Temperature.

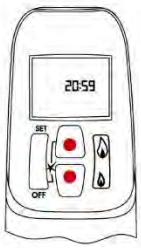
- TIMER – **Timer Mode** (Appliance must be in standby mode; pilot ignited)
  The Timers P1 and P2 (Program 1, Program 2) each can be programmed to go ON and OFF at specific times. For instructions see Timer Programming Mode.

NOTE: The display shows the set temperature every 30 seconds.

SETTING °C/24 HOUR OR °F/12 HOUR CLOCK

- Press **OFF** and 💧 (small flame) button until display changes from Fahrenheit/12 hour clock to Celsius/24 hour clock and vice versa.

SETTING THE TIME



- The Time display will flash after either:
  a) Installing the battery or
  b) Simultaneously pressing the 💧 (large flame) and 💧 (small flame) buttons.
- Press 💧 (large flame) button to set the hour.
- Press 💧 (small flame) button to set the minute.
- Press **OFF** or simply wait to return to manual mode.

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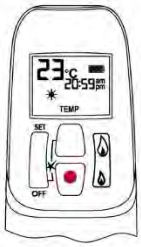
SETTING THE ON/OFF TEMPERATURES

Setting the "DAYTIME" Temperature

DEFAULT SETTINGS: ☀ TEMP (sun), 23 °C/74 °F

- Briefly press SET button to scroll to TEMP ☀ TEMP (sun) mode. Hold the **SET** button until the TEMP flashes.

- Press 💧 (large flame) button to increase ☀ Daytime Set Temperature.



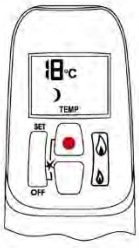
- Press 💧 (small flame) button to decrease ☀ Daytime Set Temperature.

- Press **OFF** or simply wait to complete programming.

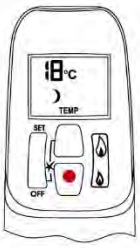
Setting the "NIGHTTIME SETBACK" Temperature

DEFAULT SETTINGS: ☽ TEMP (moon), "--" (OFF)

- Briefly press **SET** button to scroll to TEMP ☽ TEMP (moon) mode. Hold the **SET** button until the TEMP flashes.



- Press 💧 (large flame) button to increase ☽ Nighttime Setback Temperature.



- Press 💧 (small flame) button to decrease ☽ Nighttime Setback Temperature.

- Press **OFF** or simply wait to complete programming.

SETTING PROGRAM TIMERS

Default Settings

CE:	Program 1:	P1 ☀: 6:00	P1 ☽: 8:00
	Program 2:	P2 ☀: 23:50	P2 ☽: 23:50
CSA:	Program 1:	P1 ☀: 6:00am	P1 ☽: 8:00am
	Program 2:	P2 ☀: 11:50pm	P2 ☽: 11:50pm

- 2 ON times can be programmed ☀ per day.
- CE: The day starts at 0:00, ends at 23:50.
- CSA: The day starts at 12:00am, ends at 11:50pm.
- The ON/OFF times have to be programmed in the order P1☀ ≤ P1☽ < P2☀ ≤ P2☽.
- If P1☀ = P1☽ or P2☀ = P2☽ the timer is deactivated.
- To have the fire over night, it can be set:
  CE: P2☽ 23:50 and P1☀ 0:00
  CSA: P2☽ 11:50am and P1☀ 12:00am

- Select Timer Mode by briefly pressing the **SET** button.

Setting P1 ON Time

- Hold the **SET** button until P1☀ (sun) is displayed and the time flashes.

- Set the hour by pressing the 💧 (large flame) button.

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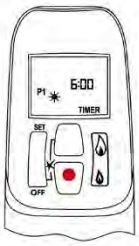
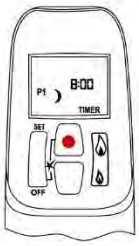


- Set the minutes by pressing the (small flame) button.

Setting P1 OFF Time

- Briefly press **SET** button to scroll to setting P1 OFF time. P1 (moon) is displayed and the time flashes.



- Set the hour by pressing the (large flame) button.

- Set the minutes by pressing the (small flame) button.

Setting P2 ON Time

- Briefly press **SET** button to scroll to setting P2 ON time. P2 (sun) is displayed and the time flashes.
- See instructions SETTING P1 ON TIME.

Setting P2 OFF Time

- Briefly press **SET** button to scroll to setting P2 OFF time. P2 (moon) is displayed and the time flashes.
- See instructions SETTING P1 OFF TIME.
- This concludes programming Timers P1 and P2. Press **OFF** or wait. The handset will automatically save your changes.

MANUAL OPERATION

(Only possible, when MANUAL knob is used)

Access to the pilot burner is only required for ignition with a match.
When turning main valve knob, do not force. Knob has a slip clutch that clicks until the end stops are reached. This allows for manual flame height adjustment as well as adjustment to pilot standby position.

1. **STOP!** Read the safety information included before proceeding.
2. Turn main valve knob to the **OFF**, full clockwise position.
3. Turn MANUAL knob to the **MAN**, full clockwise position.
4. Place ON/OFF switch (if equipped) in **O** (OFF position).
5. Wait five (5) minutes to clear out any gas. Verify that no gas is in the area around the appliance, including near the floor. **If you detect gas STOP! Follow "WHAT TO DO IF YOU SMELL GAS" in the safety information on page 2.** If no gas is present, proceed to step 6.
6. Place ON/OFF switch (if equipped) in **I** (ON position).
7. With the MANUAL knob in **MAN** position a manual pilot valve operator and piezo ignitor (optional) are accessible.
8. Fully push down manual pilot valve operator and hold in, to start pilot gas flow (see figure 25, page 21).
   Ignition with match:
   Immediately light the pilot with a match, while continuing to hold in the manual pilot valve operator for about one (1) minute after the pilot is lit. Release manual pilot valve operator. If pilot does not stay lit, wait five (5) minutes and repeat.
   Ignition with piezo ignitor:
   Change the ignition cable from the receiver to the valve (see figure 25, page 21). Push in the piezo ignitor to ignite. If pilot does not stay lit, wait five (5) minutes and repeat.

⚠ WARNING

If the pilot does not stay lit after several tries, turn the gas control knob (main valve knob) to **OFF** and proceed to step 12.

9. If applicable, replace pilot access panel before proceeding.
10. Turn MANUAL knob to the **ON**, full counterclockwise position.
11. Turn main valve knob to the full **ON**, full counterclockwise position.
12. If the appliance will not operate, follow the instructions "TURN OFF GAS TO APPLIANCE" (page 21).

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TO TURN OFF GAS TO APPLIANCE

1. Place ON/OFF switch (if equipped) in **O** (OFF position).
2. If gas control is accessible turn main valve knob to the **OFF** full clockwise position.
3. Replace appliance access cover (if applicable).

Figure 25: Combination control, cover

AUTOMATIC TURN DOWN

6 Hour no Motor Movement

(CSA version)

- Manual Mode/Temperature/Timer Mode: The valve will turn to pilot flame if there is no change in flame height for a 6 hour period. In Temperature/Timer Mode if the ambient room temperature changes, the flame height will adjust automatically to maintain set temperature, and the fire will continue to function normally. The valve will turn to pilot flame if the set temperature and the ambient room temperature remain the same over a 6 hour period.

Receiver Overheating

(only if module is connected)

- Valve turns to pilot flame if the temperature in the receiver is higher than 140 °F (60 °C). The main burner comes back on only when the temperature is below 140 °F (60 °C).

1 Hour Turn Down for Special Receiver

(bedroom fireplaces only)

- The valve will turn to pilot flame if there is no change in flame height over a 1 hour period.

AUTOMATIC SHUT OFF

Low Battery Receiver

- With low battery power in the receiver the system shuts off the fire completely. This will not happen if the power supply is interrupted.

Five Day Shut Off

(CSA version)

- The system shuts off the fire completely if there is no change in flame height for 5 days.

Second Thermocouple Shut Off

- Second Thermocouple Option: The system shuts off the fire if the main burner does not completely ignite approximately 20 seconds after ignition or after pushing the (large flame) button.

NOTE: Before the next ignition there is a 2 minute waiting period.

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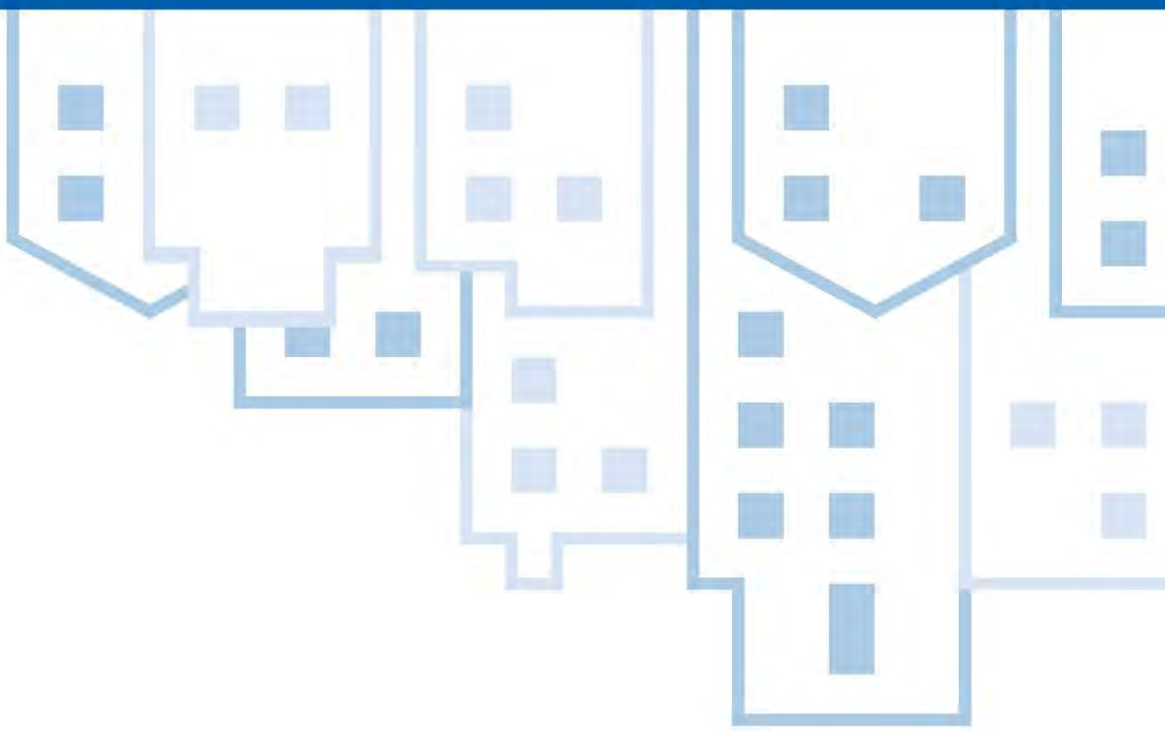

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MERTIK MAXITROL®

GV60 Remote Electronic Ignition and Control System

For 2008 and 2010 GV60 Systems Not Using Manually Selected Codes.

INSTALLER TROUBLESHOOTING GUIDE — FOR OEM USE ONLY

⚠ WARNING

Read the INSTALLATION AND OPERATING INSTRUCTIONS for the GV60 REMOTE ELECTRONIC IGNITION AND CONTROL SYSTEM carefully. Failure to follow them could result in a fire or explosion causing property damage, personal injury, or loss of life. Service and installation must be performed by a trained and experienced service technician.

WHAT TO DO IF YOU SMELL GAS

- Do not operate any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately evacuate the area and contact the gas supplier. Follow the gas supplier's instructions.
- If you cannot reach the gas supplier, call the fire department.

This control **must** be installed and operated **strictly** in accordance with the instructions of the OEM and with all applicable government codes and regulations, e. g. plumbing, mechanical, and electrical codes and practices. These instructions do not supersede OEM's installation or operating instructions.

Do **NOT** use a Mertik Maxitrol control if you suspect it has been subjected to high temperatures, damaged, tampered with, or taken apart. Do **NOT** use a Mertik Maxitrol control if you suspect it has been under water or that liquids has seeped into the Valve. Any of these incidents can cause leakage or other damage that may affect proper operation and cause potentially dangerous combustion problems.

Damper position must be in accordance with Manufacturer's Installation Instructions and all applicable Standards. Failure to follow them could result in a fire or explosion causing property damage, personal injury, or loss of life.

Use only your hand to push in or turn the gas control knobs. Never use tools. If a knob will not push in or turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair can result in a fire or explosion.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this control or other appliances.

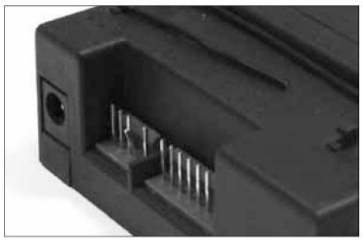
ELECTRIC SHOCK HAZARD

This control must be electrically wired and operated in accordance with all codes and local regulations. Service and installation must be performed by a trained and experienced service technician. Do not use the control if you suspect it may be damaged.

NOTICE

Wiring of the Valve and Receiver must be completed before installing any batteries and starting ignition.

If the Receiver is in a metal box or metal heat shield that is separated from the Valve and is not connected by a secured ground, an additional wire is recommended to connect the metal box to the Valve.

	OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
A	Will not operate with Touch Pad / Wall Switch / Switch Panel.	1. Bent pin	Straighten pin, replace Touch Pad, Switch and / or cable (see figure 1).  Figure 1
B	Will not operate with Handset	1. Transmitter batteries low	Replace Transmitter batteries. Quality alkaline recommended.
		2. Receiver batteries low	Replace Receiver batteries with 1.5 V "AA" quality alkaline batteries.
		3. Optional Mains Adapter not operating properly	Check Mains Adapter.
		4. Check coding of Transmitter and Receiver (Initial sync.)	Learn new code (reset). See label on Receiver.
		5. Transmitter distance limited	1. Straighten the antenna. 2. Replace Receiver. See wiring diagrams, pg. 8–12, in the operating/installation instructions for the GV60

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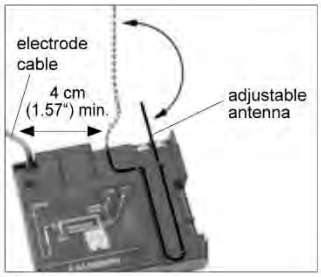
	OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
C	No transmission: (motor does not turn)	1. Dead batteries	Replace the batteries in the Receiver and/ or Remote Handset (quality Alkaline recommended). **⚠ WARNING** Do not use metal tools to remove batteries. Doing so will render the Receiver inoperable (see figure 2). Figure 2 Application with internal and external battery box: **⚠ WARNING** Battery clip (see figure 3) must not come into contact with metal parts after unplugging the external battery holder, because there is voltage stored in the Receiver. Figure 3
		2. Receiver must learn new code.	Press and hold the Receiver's reset button (see figure 4) until you hear 2 acoustic signals. After the second, longer acoustic signal, release the reset button. Within the subsequent 20 seconds press the (small flame) button on the Remote Handset until you hear an additional long acoustic signal confirming the new code is set. Figure 4
		3. The Receiver is surrounded by metal, reducing the transmission range.	Change the position of the adjustable antenna. **⚠ WARNING** Make sure that the adjustable antenna is not too close to the electrode cable and ignition coil (beneath the cover). It will damage the Receiver (see figure 5).  Figure 5

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	OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
C	*Continued* No transmission: (motor does not turn)	4. Receiver	Replace Receiver and reprogram code (see OBSERVED PROBLEM C, REMEDY to POSSIBLE CAUSE 2).
		5. Transmitter	Replace the Transmitter and reprogram code (see OBSERVED PROBLEM C, REMEDY to POSSIBLE CAUSE 2).
		6. Bent pins on 8 Wire Connector on the Valve and Receiver (see figures 6 and 7)	Straighten pins on 8 Wire Connector. Figure 6
		7. Wiring at Valve damaged	Replace Valve.
		8. IR-Eye (Infrared remote only)	Replace (check and change).
D	No ignition; no tone:	1. Receiver	Replace Receiver and reprogram code (see OBSERVED PROBLEM C, REMEDY to POSSIBLE CAUSE 2).
E	No Ignition; one 5 second continuous tone:	1. ON/OFF Switch is in (O) OFF position.	Push Switch to (–) ON position (see figure 7). Figure 7 ON/OFF Switch 8 Wire Connector
		2. Loose wire	Secure wire.
		3. Receiver	Replace Receiver and reprogram code (see OBSERVED PROBLEM C, REMEDY to POSSIBLE CAUSE 2).
		4. Bent pins on 8 Wire Connector (see figures 7 and 9)	Straighten pins on 8 Wire Connector.
		5. Valve	Replace Valve. Do not overtighten the Thermocouple Interrupter.
F	Ignition stops after the first spark	1. Loose ground connection at the Valve Figure 8	Check ground connection at the Valve and tighten screw (see figure 8).
G	No pilot flame but spark:	1. No gas supply	Check the gas supply.
		2. Air in the pilot supply line	Purge the line or start ignition several times.
		3. No spark at Pilot Burner	Check manufacturer's instructions for pilot setup; check wiring connection. Check for spark in location along Cable.
		4. Valve	Replace Valve. Do not overtighten the Thermocouple Interrupter.

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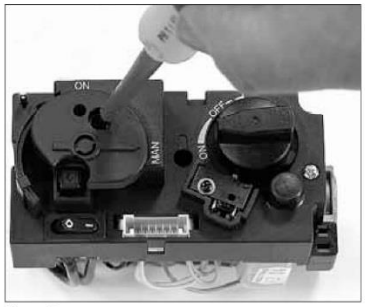
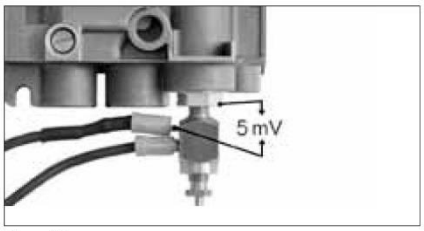
	OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
G	*Continued* No pilot flame but spark:	5. Receiver	Replace Receiver and reprogram code (see OBSERVED PROBLEM C, REMEDY to POSSIBLE CAUSE 2).
		6. Thermocouple circuit wired incorrectly	Check polarity of the Thermocouple Wires.
H	Pilot is lit and sparking stops. Valve shuts off after 10...60 seconds. Valve does not operate manually: **NOTE**: For manual operation turn the Valve knob to the manual position and hold the safety magnet open with a pen for approximately 60 seconds (see figure 9).  Figure 9	1. Not enough voltage generated from the Thermocouple or too much resistance in the circuit. **NOTE**: To find which part of the circuit is causing the problem, a checklist for each application can be prepared using an Excel calculation available from Mertik Maxitrol. Possible parts causing excessive resistance are: ON-OFF Switch, Temperature Switches, Thermocurrent Connections, Receiver.	Use a digital multimeter set in the mV range and measure the voltage by connecting the test leads to the spade connector. Spade connector is located on the outer surface, directly beside the magnet nut (see figure 10). The available voltage must be at least 5 mV. The manufacturer must specify the drop time for the application. The drop time can be measured after the Thermocouple is heated.  Figure 10
		2. Thermocouple	Replace Thermocouple.
		3. Low inlet pressure to Valve	Confirm sufficient inlet pressure to the Valve. Adjust or replace inlet regulator if necessary.
		4. Valve	Replace Valve. Do not overtighten the Thermocouple Interrupter.
I	Frequent beeps for 3 seconds while motor turns.	1. Batteries (Receiver) are low	Replace batteries (Quality Alkaline recommended). **⚠ WARNING** Do not use metal tools to remove batteries. Doing so will render the Receiver inoperable (see figure 2).
J	Pilot flame lights but there is no main gas flow	1. Manual override knob (if equipped) is in MAN position.	Turn manual override knob to ON position (see figure 7).
		2. Valve turned down to pilot flow.	Turn flame to high fire by pressing up button on remote handset.
		3. Valve	Replace Valve. Do not overtighten the Thermocouple Interrupter.
K	Latching Solenoid does not work.	1. Loose connection	Check connection is tight and pins are straight.
		2. Latching Solenoid	Replace Latching Solenoid
		3. Receiver	Replace Receiver and reprogram code (see OBSERVED PROBLEM C, REMEDY to POSSIBLE CAUSE 2).
		4. Handset	Check that the Handset shows the AUX-symbol if you press SET + UP
L	Fan/Light do not work.	1. No Mains Power	Confirm Mains Power supply.
		2. Wired incorrectly	Check Light and Fan are plugged into the correct connector. Check wiring.
		3. Fan and/or Light do not function.	Replace Fan or Light.

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	OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
L	*Continued* Fan/Light do not work.	4. V-module	Replace V-module.
		5. Receiver	Replace Receiver and reprogram code (see OBSERVED PROBLEM C, REMEDY to POSSIBLE CAUSE 2).
M	Relay with Cable or Power Flue does not work.	1. Wired incorrectly.	Check wiring and Relay contacts.
		2. Relay with Cable or Power Flue Control does not function.	Replace Relay/Power Flue Control.
		3. Receiver	Replace Receiver and reprogram code (see OBSERVED PROBLEM C, REMEDY to POSSIBLE CAUSE 2).
		4. Handset	Check that the handset label shows the right part number.
N	Electronics do not work: (Motor does not turn, no beeping, or no sparks).	1. The Receiver is in a metal box or metal heat shield, this box is separated from the Valve, and is not connected by a secure ground.	An additional wire is required to connect the metal box to the Valve (see figure 11). Press the Receiver's reset button (see figure 4).

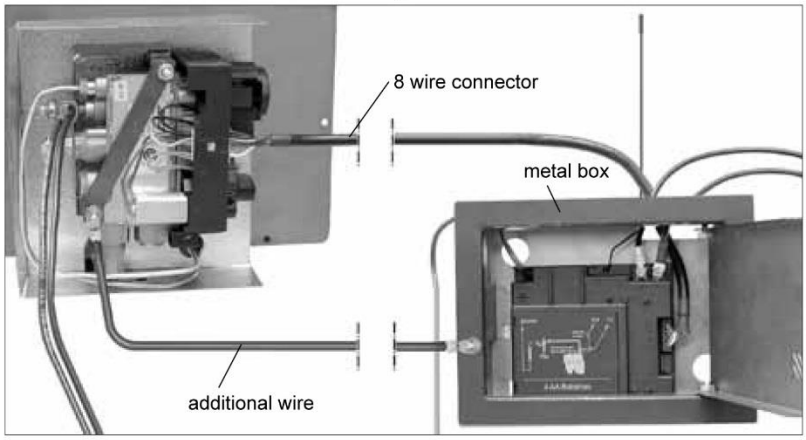

Figure 11

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