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P/N 126794-01 Rev. NC 02/2014



P126794-01



Models

Ring Models

MM2FR

MM3FR

MM2FRL

MM3FRL

Burners Modules

MMFRBNB

MMFRBPB

MMFRBNS

MMFRBPS

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

**Installateur :** Laissez cette notice avec l'appareil.  
**Consommateur :** Conservez cette notice pour consultation ultérieure.V

**WHEN USED AS AN OUTDOOR APPLIANCE**

**⚠ DANGER**



**CARBON MONOXIDE WARNING**

- This appliance can produce carbon monoxide which has no odor.
- Using it in an enclosed space can kill you.
- Never use this appliance in an enclosed space such as a camper, tent, car or home.

**⚠ WARNING:** For Outdoor Use Only.

**⚠ DANGER**

**IF YOU SMELL GAS:**

1. Shut off gas to appliance.
2. Extinguish any open flame.
3. If odor continues, keep away from the appliance and immediately call your gas supplier or fire department.

**⚠ WARNING:** Do not store gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance. An LP-cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.

**⚠ WARNING:** Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

**WARNING:** If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

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

**AVERTISSEMENT :** Assurez-vous de bien suivre les instructions données dans cette notice pour réduire au minimum le risque d'incendie ou d'explosion ou pour éviter tout dommage matériel, toute blessure ou la mort.

- Ne pas entreposer ni utiliser d'essence ni d'autres vapeurs ou liquides inflammables dans le voisinage de cet appareil ou de tout autre appareil.
- **QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ :**
  - Ne pas tenter d'allumer d'appareil.
  - Ne touchez à aucun interrupteur. Ne pas vous servir des téléphones se trouvant dans le bâtiment où vous trouvez.
  - Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
  - Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service des incendies.
- L'installation et l'entretien doivent être assurés par un installateur ou un service d'entretien qualifié ou par le fournisseur de gaz.

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## SAFETY

**Solid fuels shall not be burned in this appliance**

**This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.**

**⚠ WARNING: This product contains and/or generates chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.**

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

**⚠ DANGER: Carbon monoxide poisoning may lead to death!**

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

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

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

**⚠ WARNING: Any change to this appliance or its controls can be dangerous.**

**Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.**

**Do not place clothing or other flammable material on or near the appliance. Never place any objects on the appliance.**

**Appliance base assembly becomes very hot when running appliance. Keep children and adults away from hot surface to avoid burns or clothing ignition. Appliance will remain hot for a time after shutdown. Allow surface to cool before touching.**

**Carefully supervise young children when they are in the vicinity of the appliance.**

**Keep the appliance area clear and free from combustible materials, gasoline and other flammable vapors and liquids.**

**Do not leave appliance in operation when unattended.**

## CAUTION

**Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental burns. A physical barrier is recommended if there are at-risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at-risk individuals out of the room and away from hot surfaces.**

## **SAFETY**

### ***Continued***

1. This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.
2. Do not place propane/LP supply tank(s) inside or under the fire ring. Locate propane/LP supply tank(s) at least 10 feet away (propane/LP units only).
3. If you smell gas
  - shut off gas supply
  - do not try to light any appliance
  - do not touch any electrical switch; do not use any phone in your building
  - immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions
  - if you cannot reach your gas supplier, call the fire department
4. To prevent the creation of soot, follow the instructions in *Cleaning and Maintenance*, page 14.
5. Do not run appliance
  - where flammable liquids or vapors are used or stored
  - under dusty conditions
6. Do not use this appliance to cook food or burn paper or other objects.
7. Do not use this appliance if any part has been exposed to or under water. Immediately call a qualified service technician to inspect the room appliance and to replace any part of the control system and any gas control which has been under water.
8. Turn appliance off and let cool before servicing, installing or repairing. Only a qualified service person should install, service or repair appliance.
9. This appliances must not be connected to any external electrical source.
10. Operating appliance above elevations of 4,500 feet may cause pilot outage.
17. To prevent performance problems, do not use propane/LP fuel tank of less than 100 lb. capacity (propane/LP units only).
18. Provide adequate clearances around air openings.

## **LOCAL CODES**

Install and use appliance with care. Follow all local codes. In the absence of local codes, use the latest edition of *The National Fuel Gas Code, ANSI Z223.1/NFPA 54\** and CAS B149.1.

\*Available from:

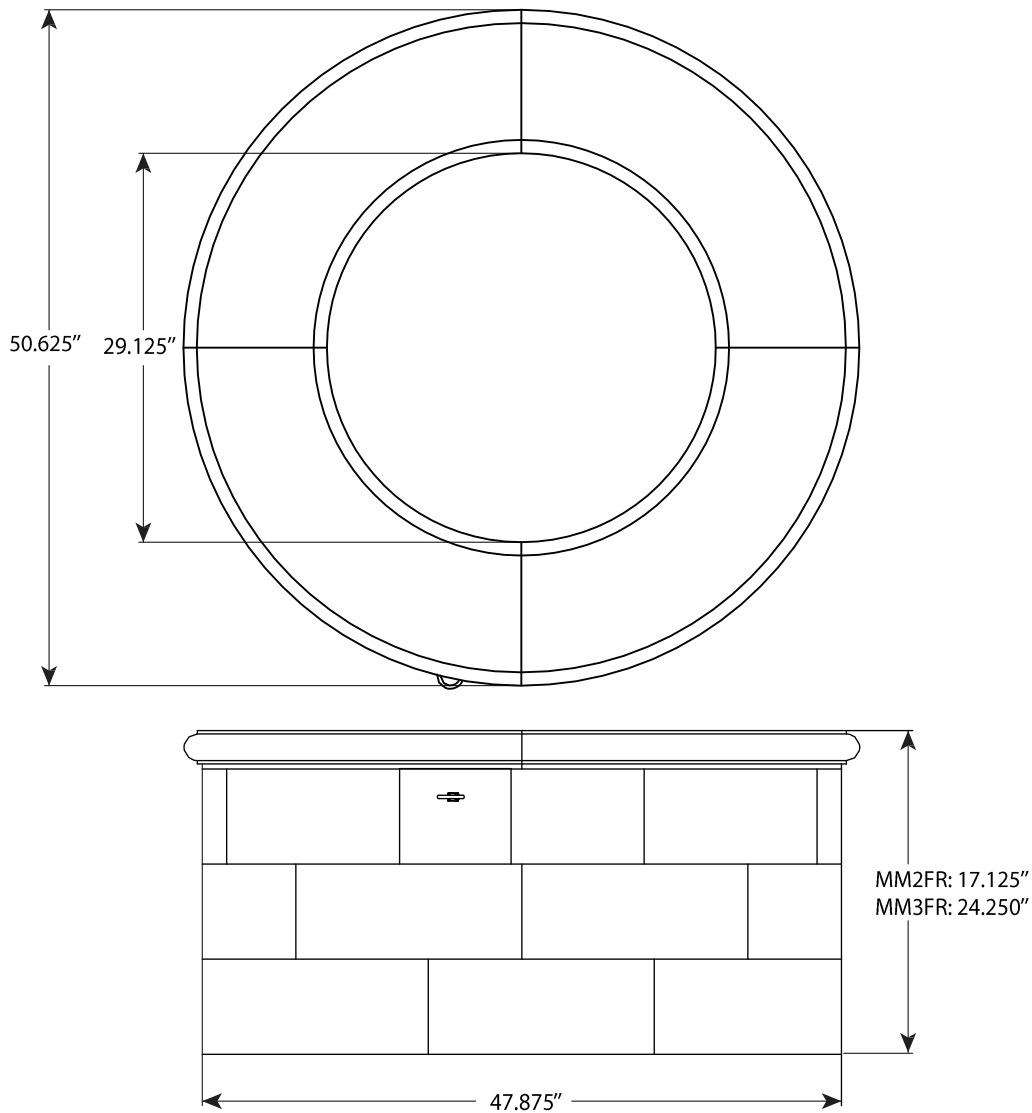
American National Standards Institute, Inc.  
1430 Broadway  
New York, NY 10018

National Fire Protection Association, Inc.  
Batterymarch Park  
Quincy, MA 02269

## **UNPACKING**

1. Remove burner system and other components from box. Do not grasp by burner tubes. If it is evident that the burner is damaged, it must be replaced prior to being put into operation. Set lava rock boxes aside for further instruction.
2. Remove all protective packaging from pallet of blocks for shipment.
3. Check for any shipping damage. If appliance is damaged call INNOVATIVE HEARTH PRODUCTS at 1-800-655-2008 for replacement parts before returning to dealer.

## SPECIFICATIONS



**Figure 1 - MODELS MM2FR, MM2FRL, MM3FR AND MM3FRL**

### **MMFRBNB, MMFRBNS**

- Rating: 96,000 Btu/hr
- Gas Type: Natural Gas Only
- Ignition: Manual
- Manifold Pressure: 6.0" w.c.
- Minimum Inlet Supply Pressure: 7.0" w.c.
- Maximum Inlet Supply Pressure: 10.5" w.c.
- Orifice: #12

### **MMFRBPB, MMFRBPS**

- Rating: 95,000 Btu/hr
- Gas Type: Propane/LP Gas Only
- Ignition: Manual
- Manifold Pressure: 10.5" w.c.
- Minimum Inlet Supply Pressure: 11" w.c.
- Maximum Inlet Supply Pressure: 14" w.c.
- Orifice: #33

## INSTALLATION

**⚠ WARNING:** A qualified service person must install appliance. Follow all local codes.

**NOTICE:** State or local codes may only allow operation of this appliance in a vented configuration. Check your state or local codes.

### CHECK GAS TYPE

Use the correct type of gas (natural or propane/LP). If your gas supply is not the correct gas type, do not install appliance. Call dealer where you bought appliance for proper type appliance.

**⚠ WARNING:** This appliance is equipped for either natural gas or propane/LP gas but not both. Gas type is indicated on the rating plate. Field conversion is not permitted.

### INSTALLATION AND CLEARANCES

**⚠ WARNING:** Maintain the minimum clearances. If you can, provide greater clearances from floor and adjoining wall.

#### MINIMUM CLEARANCE TO COMBUSTIBLE MATERIALS

Side Wall 16",  
Bottom: 0"

**⚠ WARNING:** DO NOT PLACE UNDER A CEILING OR OVERHANG.

### CONNECTING TO GAS SUPPLY

**⚠ WARNING:** This appliance requires a 1/2" NPT (National Pipe Thread) inlet connection to the pressure regulator.

**⚠ WARNING:** A qualified service person must connect appliance to gas supply. Follow all local codes.

**⚠ CAUTION:** Never connect propane/LP fire ring directly to the propane/LP supply. This appliance requires an external regulator (not supplied). Install the external regulator between the appliance and propane/LP supply.

**⚠ WARNING:** Never connect natural gas fire ring to private (non-utility) gas wells. This gas is commonly known as wellhead gas.

### Installation Items Needed

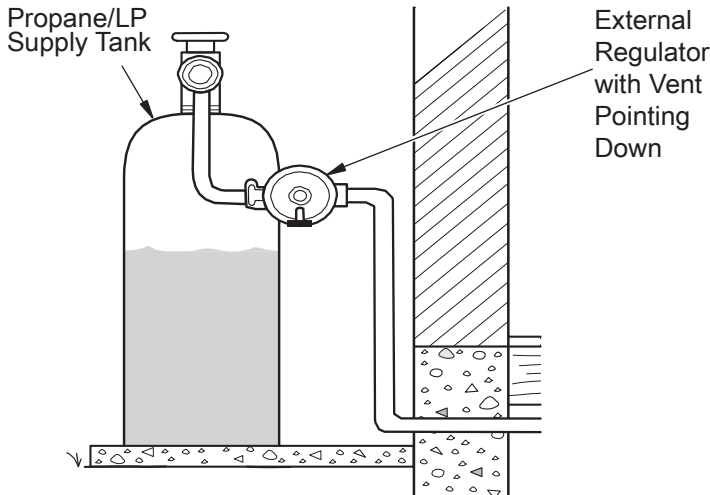
Before installing appliance, make sure you have the items listed below.

- 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 Figure 2, page 6. Pointing the vent down protects it from freezing rain or sleet.

## INSTALLATION Continued



**Figure 2 - External Regulator With Vent Pointing Down**

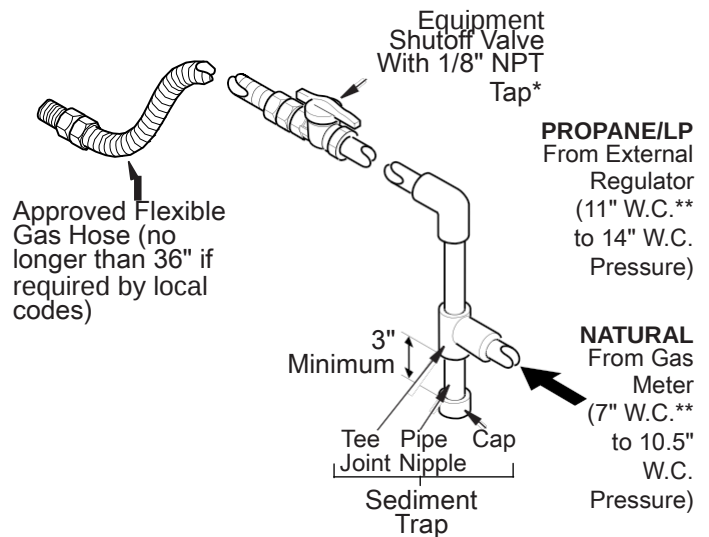
**⚠ CAUTION:** Use only new, black iron or steel pipe. Internally-tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of 1/2" diameter or greater to allow proper gas volume to appliance. If pipe is too small, undue loss of volume will occur.

Installation must include an equipment shutoff valve, union and plugged 1/8" NPT tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from appliance (see Figure 3).

**IMPORTANT:** Install equipment shutoff valve in an accessible location. The equipment shutoff valve is for turning on or shutting off the gas to the appliance. Check your building codes for any special requirements for locating equipment shutoff valve to fireplaces.

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

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



**Figure 3 - Gas Connection**

\* Purchase the optional equipment shutoff valve from your dealer.

\*\*Minimum inlet pressure for purpose of input adjustment.

We recommend that you install a sediment trap in supply line as shown in Figure 3. Locate sediment trap where it is within reach for cleaning. Install in piping system between fuel supply and appliance. Locate sediment trap where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into appliance controls. If sediment trap is not installed or is installed wrong, appliance may not run properly.

**⚠ CAUTION:** Avoid damage to gas control. Hold gas control with wrench when connecting it to gas piping and/or fittings.

## INSTALLATION

### Continued

#### CHECKING GAS CONNECTIONS

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

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

**⚠ CAUTION:** Make sure external regulator has been installed between propane/LP supply and appliance. See guidelines under Connecting to Gas Supply, page 6.

#### PRESSURE TESTING GAS SUPPLY PIPING SYSTEM

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

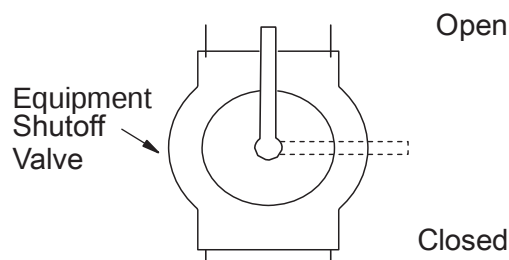
1. Disconnect appliance with its appliance main gas valve (control valve) and equipment shutoff valve from gas supply piping system. Pressures in excess of 1/2 psig will damage appliance regulator.
2. Cap off open end of gas pipe where equipment shutoff valve was connected.
3. Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas or opening main gas valve located on or near gas meter for natural gas or using compressed air.
4. Check all joints of gas supply piping system. Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
5. Correct all leaks at once.
6. Reconnect appliance and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

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

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

#### PRESSURE TESTING APPLIANCE GAS CONNECTIONS

1. Open equipment shutoff valve (see Figure 4).
2. Open main gas valve located on or near gas meter for natural gas or open propane/LP supply tank valve.
3. Make sure control knob of appliance is in the OFF position.
4. Check all joints from gas meter to equipment shutoff valve for natural gas or propane/LP supply to equipment shutoff valve for propane/LP. Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
5. Correct all leaks at once.
6. Light appliance (see Operation, page 15). Check all other internal joints for leaks.
7. Turn off appliance (see To Turn Off Gas to Appliance, page 15).



**Figure 4 - Equipment Shutoff Valve**

## INSTALLATION

### Continued

#### GAS LINE PLANNING

The supply line will need to run vertical through the heat shield in the center of the fire ring up to where you will connect it to the gas regulator using a 1/2" flared flex line (not included). There is a 1" hole in the heat shield for the gas line (See Figure 5).

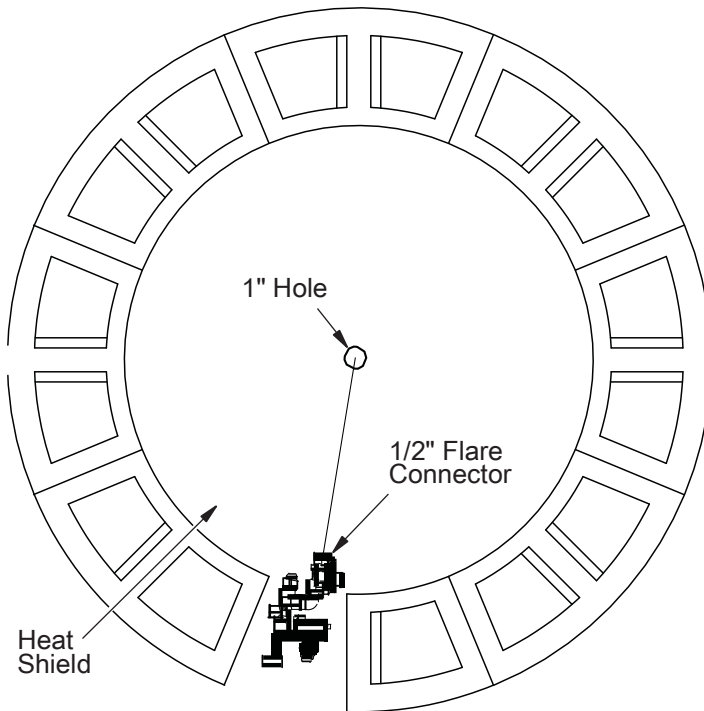


Figure 5 - Gas Line Planning

#### BUILDING FIRE RING

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

1. Locate a flat even surface to build your fire ring. See Specifications page 4 for sizing and Minimum Clearances page 5 when selecting a location.
2. Use 8 blocks to build the first layer (See Figure 6). After laying out all blocks, using a level, verify all the blocks are level. Shim if necessary.

**FOR PROPANE/LP ONLY:** On the first layer, leave 1/8" head joints between blocks (see Figure 7). Do not grout between blocks. This will allow air space for gas to dissipate and not pool in the event of a gas leak.

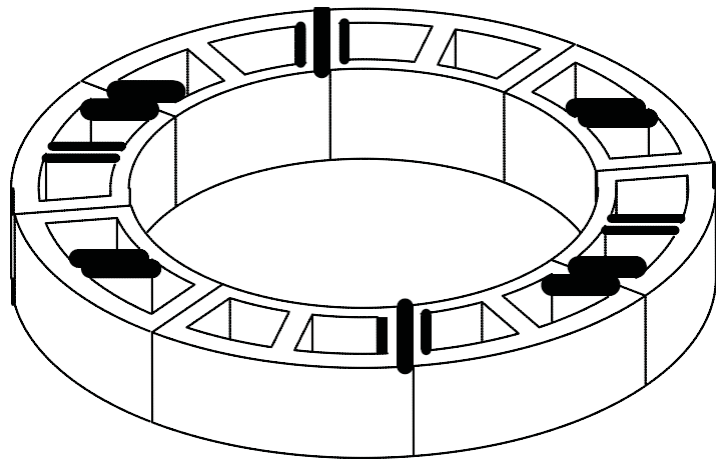


Figure 6 - Laying First Layer of Blocks

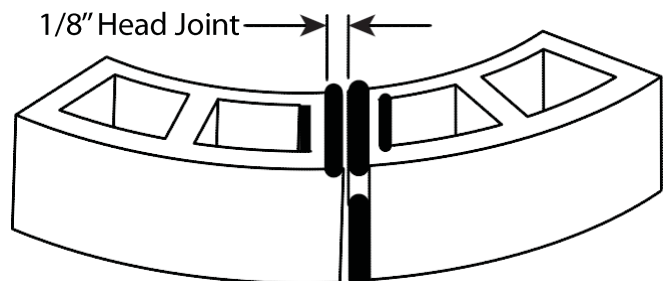
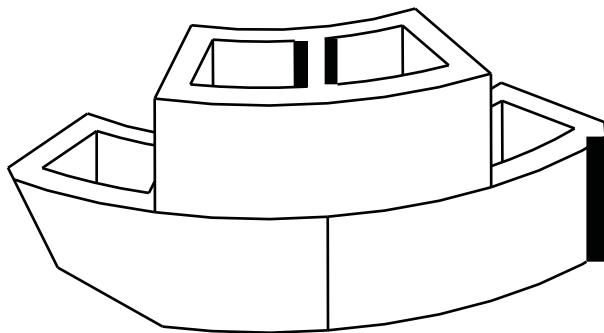


Figure 7 - Head Joints

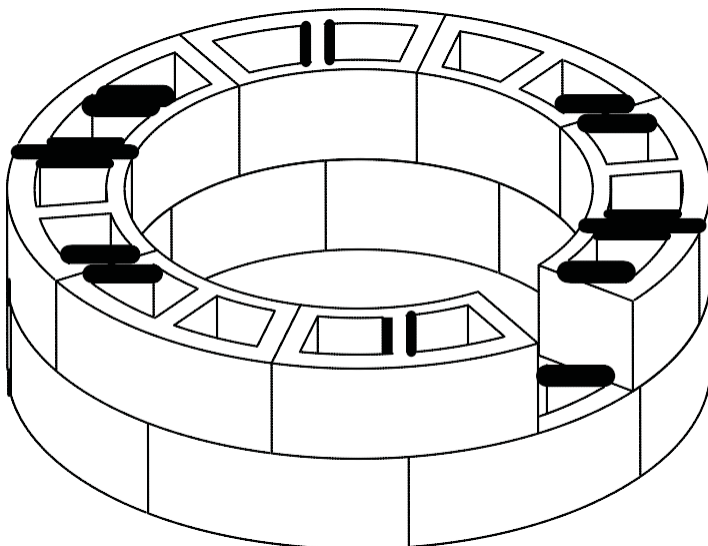
## INSTALLATION

### *Continued*

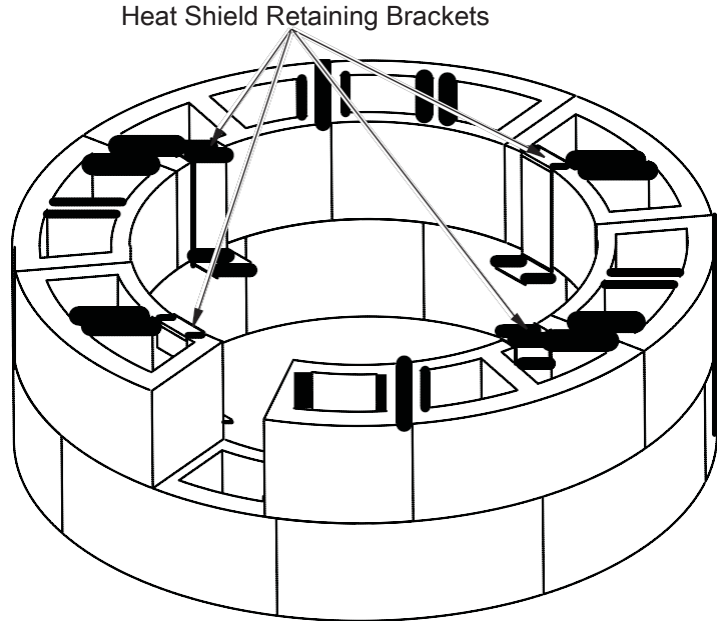
3. When starting second layer, stagger blocks to the first layer (see Figure 8). For the MM3FR, use 8 blocks to build the second layer. After laying out all blocks, using a level, verify all the blocks are level. Shim if necessary.
4. When starting the top layer, stagger blocks to the layer below. Use 7 full blocks and one half block to build the top layer (see Figure 9). After laying out all blocks, using a level, verify all the blocks are level. Shim if necessary.
5. Place 4 heat shield retaining brackets (longer of the 2 types of brackets included with the MMFRB Series burner system) on the top layer of blocks in the pattern shown in Figure 10.



**Figure 8 - Staggered Blocks**

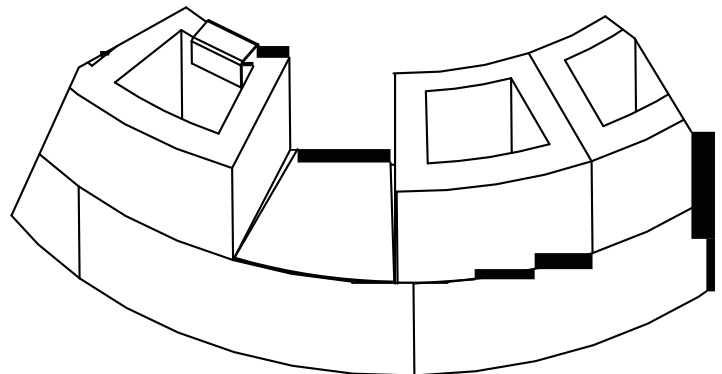


**Figure 9 - Top Layer (MM2FR Shown)**



**Figure 10 - Heat Shield Retaining Brackets  
(MM2FR Shown)**

6. Place Block cover over open block in the first layer for the MM2FR or the second layer for the MM3FR as shown in Figure 11.



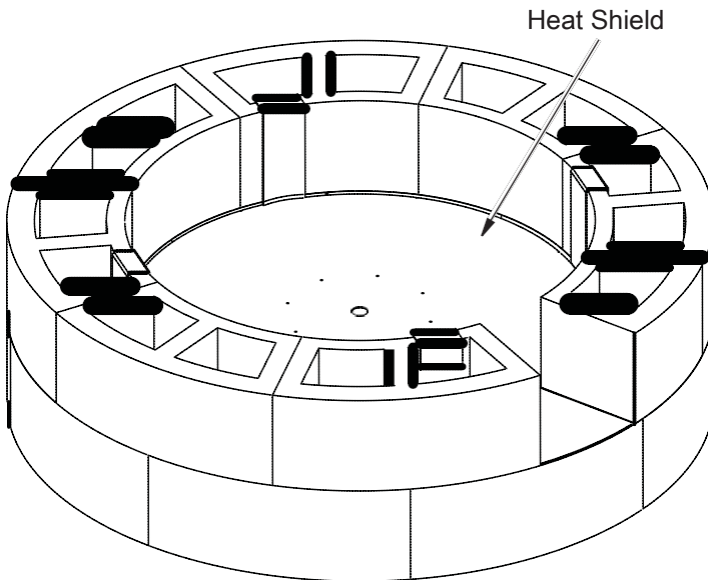
**Figure 11 - Block Cover**

## INSTALLATION

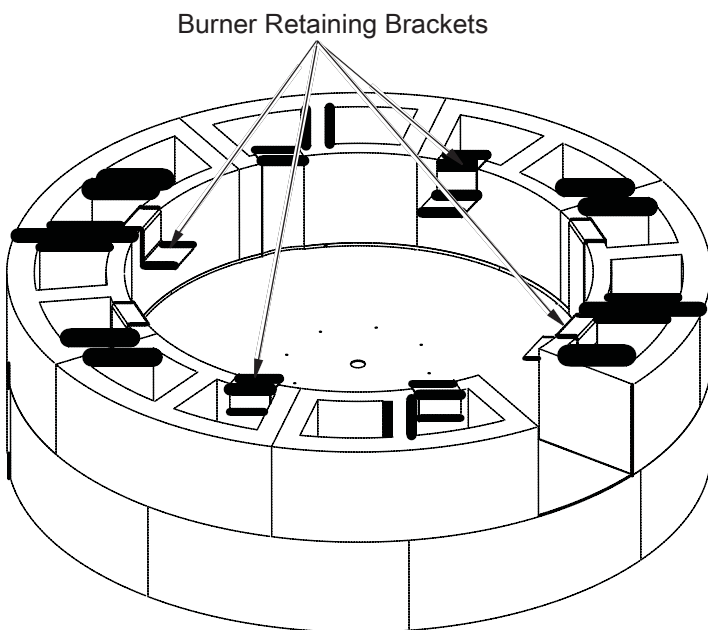
### Continued

**⚠ WARNING: Heat shield must be installed.**

7. Place heat shield on the retaining brackets in the center of the fire ring (see Figure 12).
8. Place 4 burner retaining brackets (shorter of the 2 types of brackets included with the MMFRB Series burner system) on the top layer of blocks in the pattern shown in Figure 13.

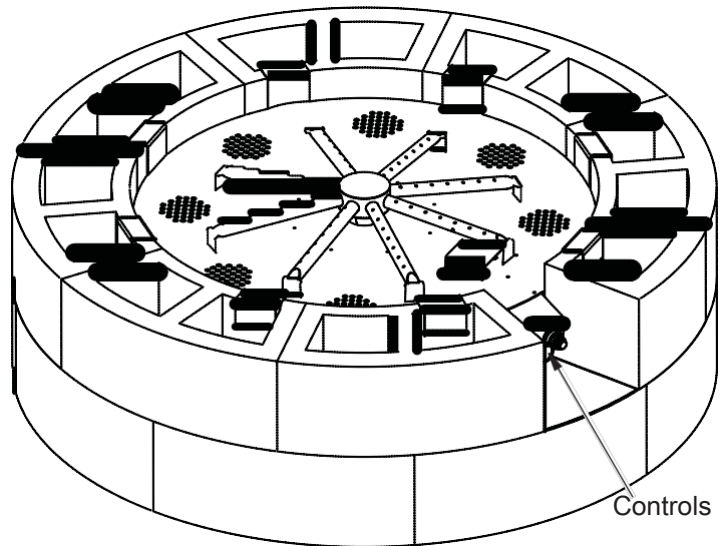


**Figure 12 - Installing Heat Shield (MM2FR Shown)**

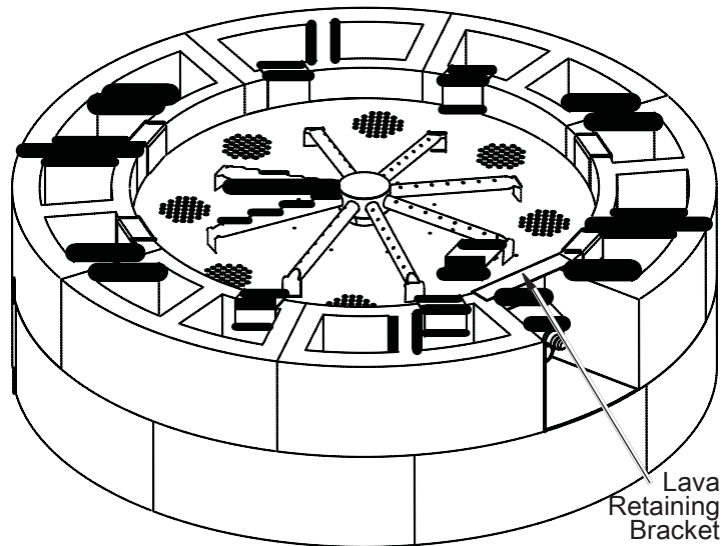


**Figure 13 - Burner Retaining Brackets (MM2FR Shown)**

9. Connect incoming gas line to regulator shown in Figure 5 page 8 before placing burner system into place.
10. Place burner system on the retainer brackets in the center of the fire ring with the controls going through the opening in the blocks (see Figure 14). **DO NOT GRASP BURNER SYSTEM BY BURNER TUBES.**
11. Place lava retaining bracket as shown in Figure 15.



**Figure 14 - Burner System (MM2FR Shown)**



**Figure 15 - Lava Retaining Bracket (MM2FR Shown)**

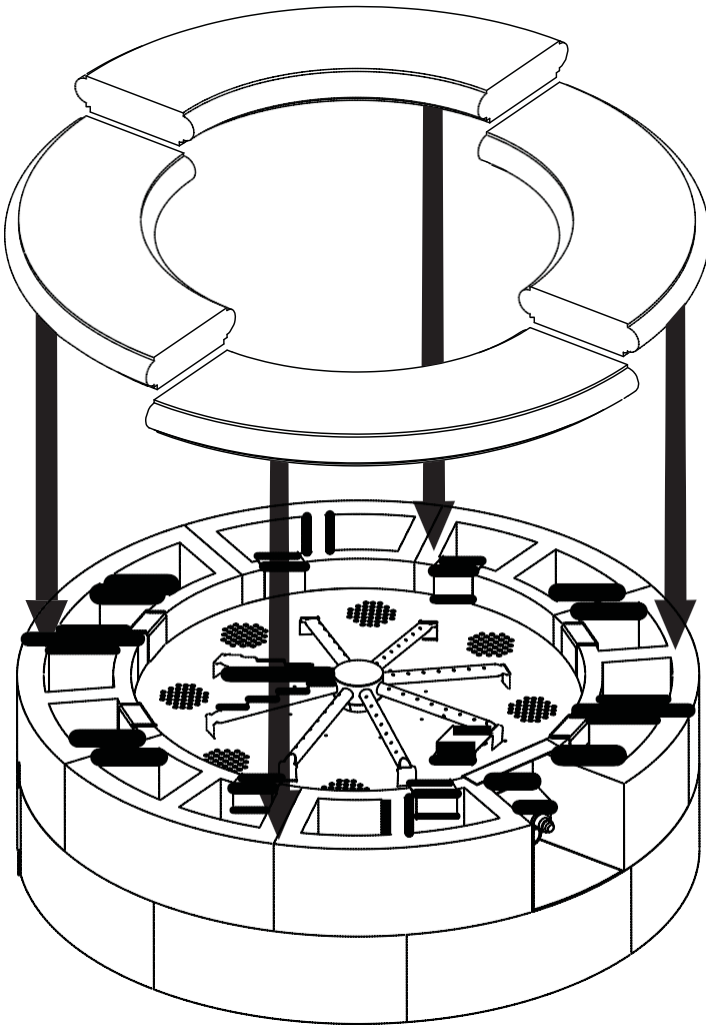
## INSTALLATION

### Continued

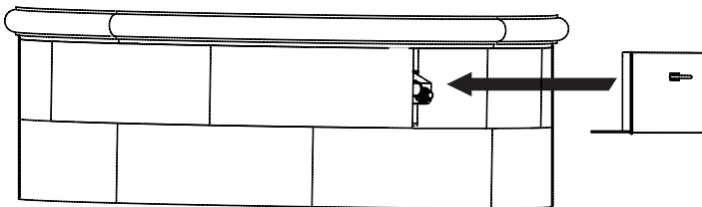
12. Place concrete cap on the top layer of blocks. Center cap on block. Level and shim if necessary (See Figure 16).
13. Insert access door into hole as shown in Figure 17.

### INSTALLING LAVA ROCK

Lava rock comes with the burner system in two boxes each weighing around 42 pounds. Lava rocks range in size. Begin by placing the smaller rocks between the burner tubes filling the whole pan in a single layer of rocks. Avoid placing rocks on the pilot shield. They will obstruct the view of the pilot when you go to light the pilot. You may want to light the pilot first before adding the lava rock (see [Lighting Instructions](#), page 12). Place larger rocks in a second layer in a smaller circle in the center of the fire ring. Lastly place the largest rocks in the center making a teepee formation.



**Figure 16 - Concrete Cap  
(MM2FR Shown)**



**Figure 17 - Access Door  
(MM2FR Shown)**

## OPERATION

### FOR YOUR SAFETY READ BEFORE LIGHTING

**⚠ WARNING:** Keep flue open when operating unit.

**⚠ WARNING:** If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

**A.** This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.

**B. BEFORE LIGHTING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

#### WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

**C.** Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician or gas supplier. Force or attempted repair may result in a fire or explosion.

**D.** Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

### LIGHTING INSTRUCTIONS

1. STOP! Read the safety information.
2. Make sure equipment shutoff valve is fully open.
3. Press in and turn control knob clockwise ↻ to the OFF position.
4. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information, column 1. If you don't smell gas, go to the next step.

5. Turn control knob counterclockwise ↻ to the PILOT position and press in. Keep control knob pressed in for five (5) seconds.

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

- If control knob does not pop up when released, contact a qualified service person or gas supplier for repairs.

6. With control knob pressed in, push down and hold ignitor button until pilot is lit. Visually locate the pilot on the control valve cover by the edge of the burner pan to look for flame. If needed, keep pressing ignitor button until pilot lights.

*Note: If the pilot will not stay lit after several tries, turn the gas control knob to OFF and call your service technician or gas supplier.*

7. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.

*Note: If pilot goes out, repeat steps 3 through 7.*

8. Turn control knob counterclockwise ↻ to the ON position. Burner should light. If burner does not light, call a qualified service person.

9. To leave pilot lit and shut off burners only, turn control knob clockwise ↻ to the PILOT position.

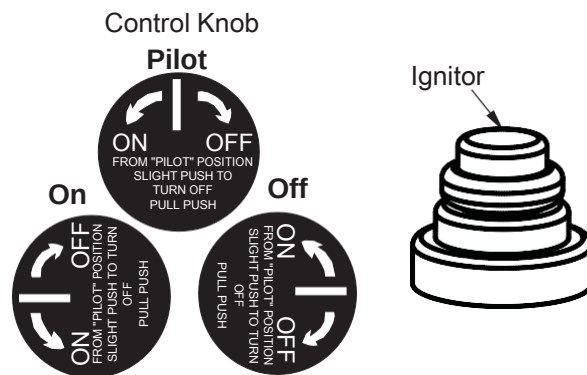


Figure 18 - Ignitor and Control Knob

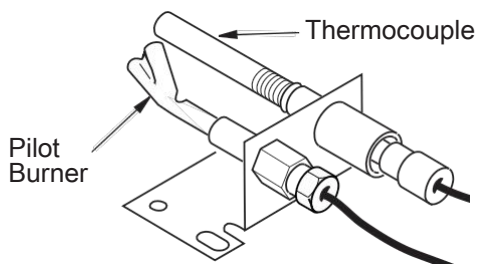


Figure 19 - Thermocouple and Pilot

## OPERATION

### Continued

#### TO TURN OFF GAS TO APPLIANCE

1. Turn control knob clockwise ↻ to the PILOT position.
2. Press in and turn control clockwise ↻ to the OFF position.
3. Close equipment shutoff valve (see Figure 4, page 7).

#### CURING

During 2-3 hour appliance break-in period, you may detect an odor from the appliance as various paints and compounds used in manufacturing of this fire ring. This is a normal and temporary situation that is not cause for alarm.

To ensure proper curing:

- Ignite a 2" flame and maintain it for 1 hour.
- Burn in consecutive 1 hour periods raising flame an additional 2" to full flame height for a total of three hours.

## INSPECTING BURNERS

Check pilot flame pattern and burner flame patterns often.

### PILOT ASSEMBLY

The pilot assembly is factory preset for proper flame height. Alterations may have occurred during shipping and handling. The pilot is located underneath the pilot shield on the burner pan.

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

If your pilot assembly does not meet these requirements:

- Access pilot adjustment screw through slot in valve cover. Turn adjustment screw clockwise to decrease or counterclockwise to increase the flame to proper size (see Figure 21). Do not remove adjustment screw.
- See [\*Troubleshooting\*](#), page 15

Pilot  
Adjustment  
Screw

Electronic  
Ignitor

Figure 21 - Location of the Pilot Adjustment Screw

### BURNER FLAME PATTERN

Burner flames will be steady, not lifting or floating. Flames should go up through middle of the fire ring burner in a tee pee formation.

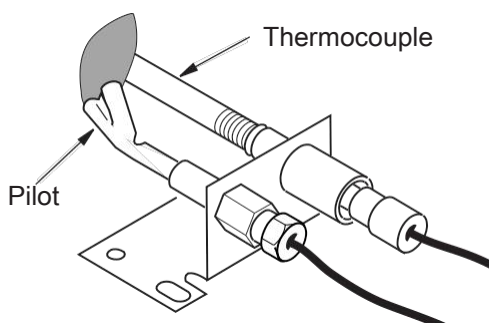


Figure 20 - Pilot Assembly

## CLEANING AND MAINTENANCE

**⚠ WARNING:** Turn off appliance and let cool before cleaning.

**⚠ CAUTION:** You must keep control areas, burners and circulating air passageways of appliance clean. Inspect these areas of appliance before each use. Have appliance inspected yearly by a qualified service person.

**⚠ WARNING:** Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property damage.

### BURNER INJECTOR HOLDER AND PILOT AIR INLET HOLE

The primary air inlet holes allow the proper amount of air to mix with the gas. This provides a clean burning flame. Keep these holes clear of dust, dirt, leaves, lint and pet hair. Clean these air inlet holes prior to each heating season. Blocked air holes will create soot. We recommend that you clean the unit every three months during operation and have appliance inspected yearly by a qualified service person.

We also recommend that you keep the burner tube and pilot assembly clean and free of dust and dirt. To clean these parts we recommend using compressed air no greater than 30 PSI. Your local computer store, hardware store or home center may carry compressed air in a can. If using compressed air in a can, please follow the directions on the can. If you don't follow directions on the can, you could damage the pilot assembly.

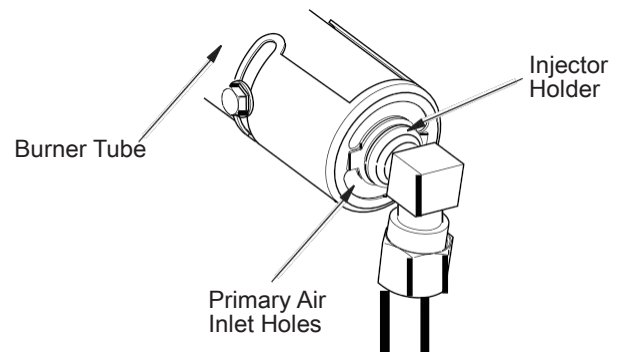
1. Shut off unit, including pilot. Allow unit to cool for at least thirty minutes.
2. Inspect burner, pilot and primary air inlet holes on injector holder for dust and dirt (see Figure 22).
3. Blow air through the ports/slots and holes in the burner.
4. Check injector holder located at end of burner tube again. Remove any large particles of dust, dirt, lint or pet hair with a soft cloth or vacuum cleaner nozzle.
5. Blow air into the primary air holes on the injector holder.
6. In case any large clumps of dust have now been pushed into the burner repeat steps 3 and 4.

Clean pilot assembly also. Additional cleaning may be needed for proper pilot operation based on use/lack of use. A yellow tip on the pilot flame may indicate dust and dirt in the pilot assembly. There is a small pilot air inlet hole about from where the pilot flame comes out of pilot assembly (see Figure 23). With unit off, lightly blow air through air inlet hole. You may blow through a drinking straw if compressed air is not available.

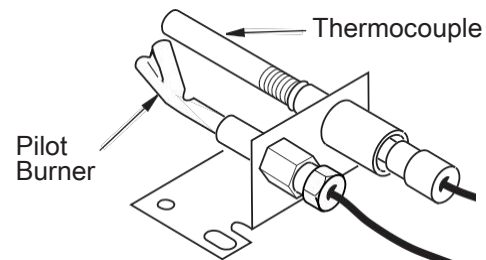
### MAIN BURNER

Periodically inspect all burner flame holes with appliance running. All slotted burner flame holes should be open with flame present. All round burner flame holes should be open with a small blue flame present. Some burner flame holes may become blocked by debris or rust, with no flame present. If so, turn off appliance and let cool. Remove blockage, blocked burner flame holes will create soot.

**⚠ WARNING:** The injector holders (air shutters) are not adjustable. Do not move injector holders from their original positions.



**Figure 22 - Injector Holder On Outlet Burner Tube**



**Figure 23 - Pilot Inlet Air Hole (Your pilot may vary from pilot shown)**

## TROUBLESHOOTING

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

*Note: All troubleshooting items are listed in order of operation.*

| OBSERVED PROBLEM                                                        | POSSIBLE CAUSE                                                                 | REMEDY                                                                                                   |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| When ignitor button is pressed, there is no spark at pilot              | 1. Ignitor electrode not connected to ignitor cable                            | 1. Reconnect ignitor cable                                                                               |
|                                                                         | 2. Ignitor cable pinched or wet                                                | 2. Free ignitor cable if pinched by any metal or tubing. Keep ignitor cable dry                          |
|                                                                         | 3. Broken ignitor cable                                                        | 3. Replace ignitor cable                                                                                 |
|                                                                         | 4. Bad ignitor                                                                 | 4. Replace ignitor                                                                                       |
|                                                                         | 5. Ignitor electrode positioned wrong                                          | 5. Replace pilot assembly                                                                                |
|                                                                         | 6. Ignitor electrode broken                                                    | 6. Replace pilot assembly                                                                                |
|                                                                         | 7. Battery not installed, battery power low or battery not installed correctly | 7. Install new alkaline battery in electronic ignitor. Verify battery is installed correctly             |
| When ignitor button is pressed, there is spark at pilot but no ignition | 1. Gas supply turned off or equipment shutoff valve closed                     | 1. Turn on gas supply or open equipment shutoff valve                                                    |
|                                                                         | 2. Control knob not in PILOT position                                          | 2. Turn control knob to PILOT position                                                                   |
|                                                                         | 3. Control knob not pressed in while in PILOT position                         | 3. Press in control knob while in PILOT position                                                         |
|                                                                         | 4. Air in gas lines when installed                                             | 4. Continue holding down control knob. Repeat igniting operation until air is removed                    |
|                                                                         | 5. Pilot adjustment screw closed                                               | 5. Adjust pilot flame for approximately 2" blue flame                                                    |
|                                                                         | 6. Pilot is clogged                                                            | 6. Clean pilot (see <u><a href="#">Cleaning and Maintenance</a></u> , page 14) or replace pilot assembly |
|                                                                         | 7. Low gas pressure                                                            | 7. Replace gas control                                                                                   |

## TROUBLESHOOTING

*Continued*

| OBSERVED PROBLEM                                              | POSSIBLE CAUSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | REMEDY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pilot lights but flame goes out when control knob is released | <ol style="list-style-type: none"> <li>Control knob not fully pressed in</li> <li>Control knob not pressed in long enough</li> <li>Equipment shutoff valve not fully open</li> <li>Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following: <ol style="list-style-type: none"> <li>Low gas pressure</li> <li>Dirty or partially clogged pilot</li> </ol> </li> <li>Thermocouple connection loose at control valve</li> <li>Thermocouple damaged</li> <li>Control valve damaged</li> </ol> | <ol style="list-style-type: none"> <li>Press in control knob fully</li> <li>After pilot lights, keep control knob pressed in 30 seconds</li> <li>Fully open equipment shut-off valve</li> <li>A) Contact local natural or propane/LP gas company<br/><br/>B) Clean pilot (see <i>Cleaning and Maintenance</i>, page 14) or replace pilot assembly</li> <li>Hand tighten until snug, then tighten 1/4 turn more</li> <li>Replace thermocouple</li> <li>Replace control valve</li> </ol> |
| Burner does not light after pilot is lit                      | <ol style="list-style-type: none"> <li>Inlet gas pressure is too low</li> <li>Burner orifice clogged</li> <li>Thermocouple leads disconnected or improperly connected.</li> <li>Burner orifice diameter is too small</li> </ol>                                                                                                                                                                                                                                                                                                                                                                         | <ol style="list-style-type: none"> <li>Contact local natural or propane/LP gas company</li> <li>Clean burner (see <i>Cleaning and Maintenance</i>, page 14)</li> <li>Reconnect leads</li> <li>Replace burner orifice</li> </ol>                                                                                                                                                                                                                                                        |
| Delayed ignition of burner                                    | <ol style="list-style-type: none"> <li>Pilot flame needs adjusting</li> <li>Wrong pilot orifice</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <ol style="list-style-type: none"> <li>Adjust pilot flame for approximately 2" blue flame</li> <li>Replace pilot orifice set</li> </ol>                                                                                                                                                                                                                                                                                                                                                |
| Burner flame is too low or too high                           | <ol style="list-style-type: none"> <li>Incorrect gas supply or pressure</li> <li>Blocked burner orifice or burner manifold ports</li> <li>Improper burner orifice size</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                       | <ol style="list-style-type: none"> <li>Check for proper gas supply pressure</li> <li>Free burner orifice and manifold ports of any burrs, paint or other blockage</li> <li>Verify proper burner orifice sizing</li> </ol>                                                                                                                                                                                                                                                              |

## TROUBLESHOOTING

*Continued*

- ⚠ WARNING:** If you smell gas
- Shut off gas supply.
  - Do not try to light any appliance.
  - Do not touch any electrical switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.

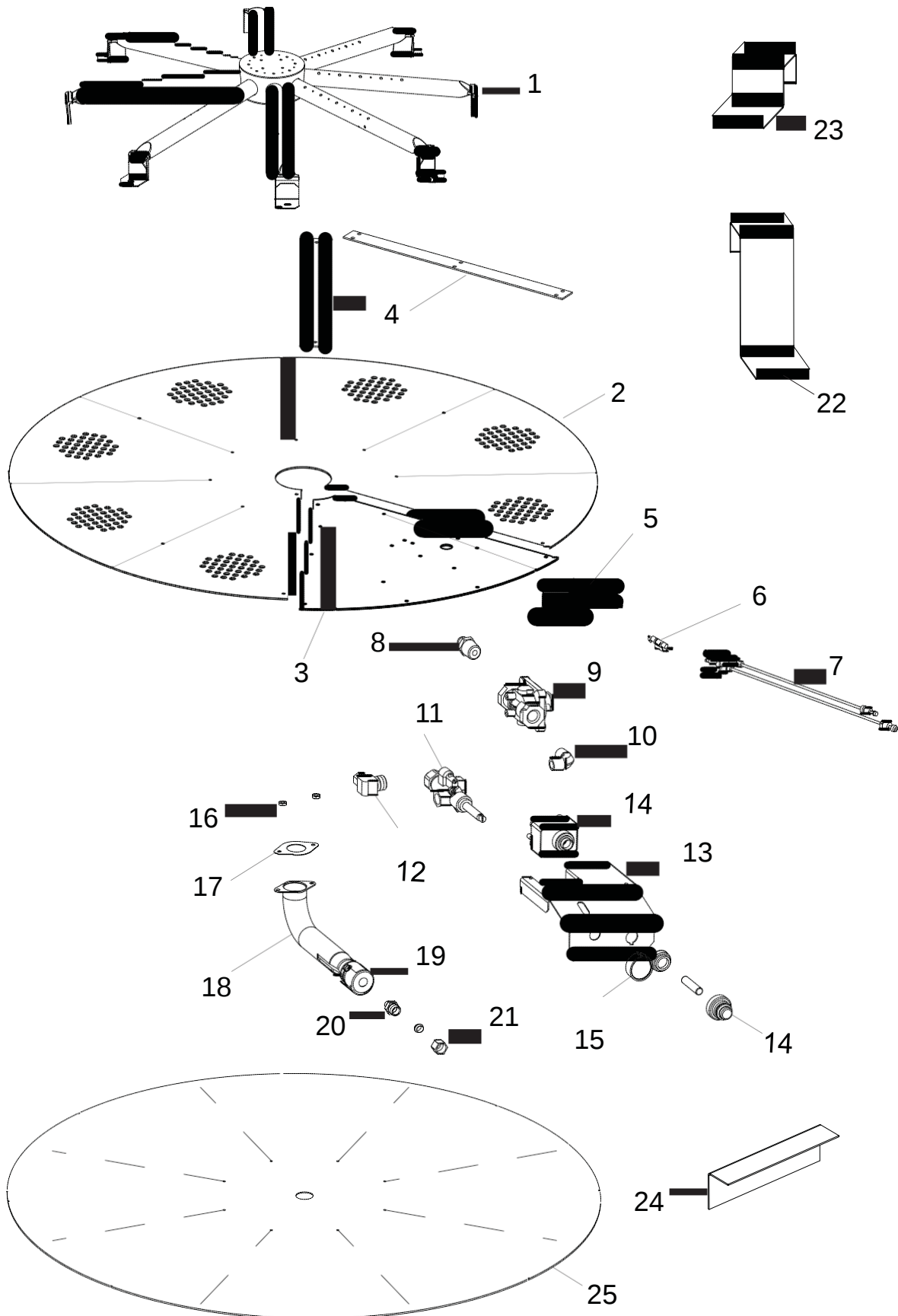
**IMPORTANT:** Operating fire ring where impurities in air exist may create odors. Cleaning supplies, paint, paint remover, cigarette smoke, cements and glues, etc., create fumes. These fumes may mix with combustion air and create odors. These odors will disappear over time.

| OBSERVED PROBLEM                                                                                                        | POSSIBLE CAUSE                                                                                                                                     | REMEDY                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Burner is excessively noisy<br>(Note: The movement and combustion of gas will create low, unavoidable levels of noise.) | <ol style="list-style-type: none"><li>1. Passage of air/gas across irregular surfaces</li><li>2. Excessive flame impingement or blockage</li></ol> | <ol style="list-style-type: none"><li>1. Relieve any tight bends or kinks in gas supply line</li><li>2. Check/reset gas regulator pressure</li></ol>           |
| Gas odor even when control knob is in OFF position                                                                      | <ol style="list-style-type: none"><li>1. Gas leak. <b>See Warning at top of page</b></li><li>2. Control Valve defective</li></ol>                  | <ol style="list-style-type: none"><li>1. Locate and correct all leaks (See <u>Checking Gas Connections</u>, page 7)</li><li>2. Replace control valve</li></ol> |
| Gas odor during combustion                                                                                              | <ol style="list-style-type: none"><li>1. Gas leak. <b>See Warning at top of page</b></li></ol>                                                     | <ol style="list-style-type: none"><li>1. Locate and correct all leaks (See <u>Checking Gas Connections</u>, page 7)</li></ol>                                  |
| Fire ring produces a clicking/ticking noise just after burner is lit or shuts off                                       | <ol style="list-style-type: none"><li>1. Metal expanding while heating or contracting while cooling</li></ol>                                      | <ol style="list-style-type: none"><li>1. This is normal. If noise is excessive, contact qualified service person</li></ol>                                     |

# PARTS

## BURNER MODELS

MMFRBNB, MMFRBPB, MMFRBNS, MMFRBPS



## PARTS

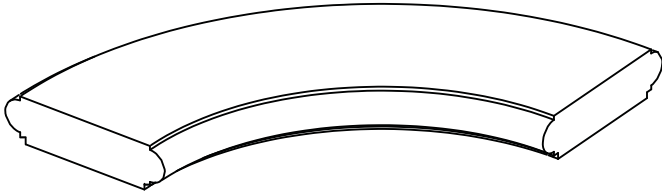
This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under Replacement Parts on page 21 of this manual.

| KEY<br>NO.                         | PART NO.  | DESCRIPTION                        |         |         |         |         | QTY. |
|------------------------------------|-----------|------------------------------------|---------|---------|---------|---------|------|
|                                    |           |                                    | MMFRBNB | MMFRBPP | MMFRBNS | MMFRBPS |      |
| 1                                  | 125889-01 | Burner - Black                     | •       | •       |         |         | 1    |
|                                    | 125889-02 | Burner - Stainless                 |         |         | •       | •       | 1    |
| 2                                  | 125887-01 | Pan - Black                        | •       | •       |         |         | 1    |
|                                    | 125887-02 | Pan - Stainless                    |         |         | •       | •       | 1    |
| 3                                  | 125887-03 | Pan Burner (Pie Slice) - Black     | •       | •       |         |         | 1    |
|                                    | 125887-04 | Pan Burner (Pie Slice) - Stainless |         |         | •       | •       | 1    |
| 4                                  | 126001-01 | Brace, Pan/Valve Black             | •       | •       |         |         | 2    |
|                                    | 126001-02 | Brace, Pan/Valve, Stainless        |         |         | •       | •       | 2    |
| 5                                  | 125886-01 | Pilot Shield - Black               | •       | •       |         |         | 1    |
|                                    | 125886-02 | Pilot Shield - Stainless           |         |         | •       | •       | 1    |
| 6                                  | 901072-01 | Ignitor Wire Harness               | •       | •       | •       | •       | 1    |
| 7                                  | 901069-01 | Pilot, NG                          | •       |         | •       |         | 1    |
|                                    | 901069-02 | Pilot, LP                          |         | •       |         | •       | 1    |
| 8                                  | 116786-01 | Male Fitting                       | •       | •       | •       | •       | 1    |
| 9                                  | 901082-01 | Regulator, NG                      | •       |         | •       |         | 1    |
|                                    | 901082-02 | Regulator, LP                      |         | •       |         | •       | 1    |
| 10                                 | 901062-01 | Brass Elbow                        | •       | •       | •       | •       | 1    |
| 11                                 | 901068-02 | Manual Valve                       | •       | •       | •       | •       | 1    |
| 12                                 | 14399     | Brass Elbow                        | •       | •       | •       | •       | 1    |
| 13                                 | 125897-01 | Valve Bracket                      | •       | •       |         |         | 1    |
|                                    | 125897-02 | Valve Bracket                      |         |         | •       | •       | 1    |
| 14                                 | 111435-01 | Electronic Ignitor                 | •       | •       | •       | •       | 1    |
| 15                                 | 901079-01 | Control Knob                       | •       | •       | •       | •       | 1    |
| 16                                 | 11209     | Nut 10-24 Hex                      | •       | •       | •       | •       | 2    |
| 17                                 | 119795-01 | Venturi Gasket                     | •       | •       | •       | •       | 1    |
| 18                                 | 112372-08 | Venturi                            | •       | •       | •       | •       | 1    |
| 19                                 | 116559-01 | Air Shutter                        | •       | •       | •       | •       | 1    |
| 20                                 | 114365-25 | Orifice #12                        | •       |         | •       |         | 1    |
|                                    | 114365-26 | Orifice #33                        |         | •       |         | •       | 1    |
| 21                                 | 111824-01 | Brass Compression Cap/Sleeve       | •       | •       | •       | •       | 1    |
| 22                                 | 125895-02 | Heat Shield Retaining Bracket      | •       | •       | •       | •       | 4    |
| 23                                 | 125895-01 | Burner Retaining Bracket           | •       | •       | •       | •       | 4    |
| 24                                 | 125884-01 | Lava Rock Retaining Bracket        | •       | •       | •       | •       | 1    |
| 25                                 | 125896-01 | Heat Shield                        | •       | •       | •       | •       | 1    |
| <b>PARTS AVAILABLE — NOT SHOWN</b> |           |                                    |         |         |         |         |      |
|                                    | 125965-01 | Aluminum Tubing                    | •       | •       | •       | •       | 1    |
|                                    | 125978-01 | Lava Rock Kit (42.5 Lbs)           | •       | •       | •       | •       | 2    |
|                                    | 901042-01 | Control Knob Decal                 | •       | •       | •       | •       | 1    |

**PARTS**  
**FIRE RING MODELS**

**MM2FR, MM3FR, MM2FRL AND MM3FRL**

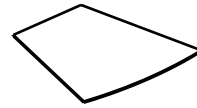
This list contains replaceable parts used in your appliance. When ordering parts, follow the instructions listed under Replacement Parts on page 21 of this manual.



**CONCRETE CAP**

125868-01

MM2FR & MM3FR - QUANTITY 4

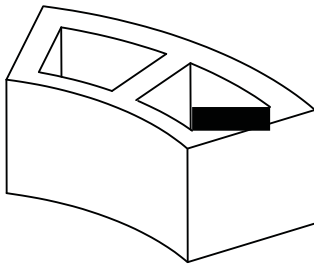


**BLOCK COVER**

125957-03

MM2FR & MM3FR - QUANTITY 1

MM2FRL & MM3FRL - QUANTITY 1



**BLOCK**

125865-01

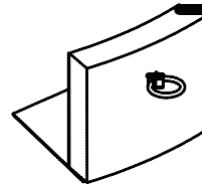
MM2FR - QUANTITY 15

MM3FR - QUANTITY 23

126371-01

MM2FRL - QUANTITY 15

MM3FRL - QUANTITY 23



**ACCESS DOOR INCLUDING RING, NUT & WASHER**

125888-01

MM2FR & MM3FR - QUANTITY 1

**ACCESS DOOR INCLUDING RING, NUT & WASHER (LEDGE STONE)**

125888-02

MM2FRL & MM3FRL - QUANTITY 1

**DOOR HANDLE ASSY**

111454-02

MM2FR & MM3FR - QUANTITY 1

MM2FRL & MM3FRL - QUANTITY 1

**WASHER 7/16ID X 1.00"**

111456-01

MM2FR & MM3FR - QUANTITY 1

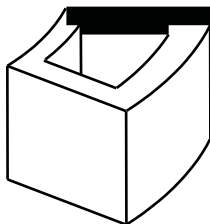
MM2FRL & MM3FRL - QUANTITY 1

**NUT 3/8-16 HEX NUT**

111457-01

MM2FR & MM3FR - QUANTITY 1

MM2FRL & MM3FRL - QUANTITY 1



**HALF BLOCK**

125869-01

MM2FR & MM3FR - QUANTITY 1

126372-01

MM2FRL & MM3FRL - QUANTITY 1

## REPLACEMENT PARTS

*Note: Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty.*

Contact authorized dealers of this product. If they can't supply original replacement part(s), call INNOVATIVE HEARTH PRODUCTS at 1-800-655-2008.

When calling, have ready:

- your name
- your address
- model and serial numbers of your appliance
- how appliance was malfunctioning
- purchase date

Usually, we will ask you to return the part to the factory.

## SERVICE HINTS

### When Gas Pressure Is Too Low

- pilot will not stay lit
  - burners will have delayed ignition
  - appliance will not produce specified heat
  - propane/LP gas supply may be low
- You may feel your gas pressure is too low. If so, contact your local propane/LP or natural gas supplier.

## TECHNICAL SERVICE

You may have further questions about installation, operation or troubleshooting. If so, contact INNOVATIVE HEARTH PRODUCTS at 1-800-655-2008. When calling please have your model and serial numbers of your appliance ready.

You can also visit our web site at **[www.IHP.US.com](http://www.IHP.US.com)**.

## Innovative Hearth Products Astria™ Brand Gas Fireplace Limited Lifetime Warranty

### THE WARRANTY

Innovative Hearth Products ("IHP") Limited Lifetime Warranty warrants your Astria™ brand gas fireplace ("Product") to be free from defects in materials and workmanship at the time of manufacture. The Product body and firebox carry the Limited Lifetime Warranty. Ceramic glass carries the Limited Lifetime Warranty against thermal breakage only. After installation, if covered components manufactured by IHP are found to be defective in materials or workmanship during the Limited Lifetime Warranty period and while the Product remains at the site of the original installation, IHP will, at its option, repair or replace the covered components. If repair or replacement is not commercially practical, IHP will, at its option, refund the purchase price or wholesale price of the IHP product, whichever is applicable. IHP will also pay IHP prevailing labor rates, as determined in its sole discretion, incurred in repairing or replacing such components for up to five years. THERE ARE EXCLUSIONS AND LIMITATIONS to this Limited Lifetime Warranty as described herein.

### COVERAGE COMMENCEMENT DATE

Warranty coverage begins on the date of installation. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the Product by an independent IHP dealer/distributor, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from IHP, regardless of the installation or occupancy date.

### EXCLUSIONS AND LIMITATIONS

This Limited Lifetime Warranty applies only if the Product is installed in the United States or Canada and only if operated and maintained in accordance with the printed instructions accompanying the Product and in compliance with all applicable installation and building codes and good trade practices.

This warranty is non-transferable and extends to the original owner only. The Product must be purchased through a listed supplier of IHP and proof of purchase must be provided. The Product body and firebox carry the Limited Lifetime Warranty from the date of installation. Vent components, trim components and paint are excluded from this Limited Lifetime Warranty. The following do not carry the Limited Lifetime Warranty but are warranted as follows:

**Burner** – Repair or replacement for five years from the date of installation  
**Gas components & electrical components** – Repair or replacement for one year from the date of installation  
**Gaskets** – Repair or replacement for one year from the date of installation  
**Gold & nickel plating** - Replacement for two years from date of installation. Excludes tarnishing  
**Labor coverage** – Prevailing IHP labor rates apply for the warranty period of the component  
**Light bulbs & batteries** – Replacement for 90 days from the date of installation  
**Logs** – Replacement for five years from the date of installation against thermal breakage only  
**Optional blowers & remote controls** – Repair or replacement for one year from the date of installation  
**Optional glass doors & optional glass accessories** – Repair or replacement for 90 days from the date of installation  
**Optional surrounds** – Stone/Natural Materials: Replacement for one year against cracking or breakage due to thermal stress. Other Materials: Replacement for one year. Excludes surface and hairline cracks and scratches or slight color changes that do not affect the operation or safety of the unit  
**Tempered Glass** -Replacement for one year from the date of installation

Parts not otherwise listed carry a 90 day warranty from the date of installation.

Whenever practicable, IHP will provide replacement parts, if available, for a period of 10 years from the last date of manufacture of the Product.

IHP will not be responsible for: (a) damages caused by normal wear and tear, accident, riot, fire, flood or acts of God; (b) damages caused by abuse, negligence, misuse, or unauthorized alteration or repair of the Product affecting its stability or performance (The Product must be subjected to normal use. The Product is designed to burn either natural or propane gas only. Burning conventional fuels such as wood, coal or any other solid fuel will cause damage to the Product, will produce excessive temperatures and could result in a fire hazard.); (c) damages caused by failing to provide proper maintenance and service in accordance with the instructions provided with the Product; (d) damages, repairs or inefficiency resulting from faulty installation or application of the Product.

IHP is not responsible for inadequate fireplace system draft caused by air conditioning and heating systems, mechanical ventilation systems, or general construction conditions which may generate negative pressure in the room in which the appliance is installed. Additionally IHP assumes no responsibility for drafting conditions caused by venting configurations, adjoining trees or buildings, adverse wind conditions or unusual environmental factors and conditions that affect the operation of the unit.

This Limited Lifetime Warranty covers only parts and labor as provided herein. In no case shall IHP be responsible for materials, components or construction, which are not manufactured or supplied by IHP or for the labor necessary to install, repair or remove such materials, components or construction. Additional utility bills incurred due to any malfunction or defect in equipment are not covered by this warranty. All replacement or repair components will be shipped F.O.B. from the nearest stocking IHP factory.

### LIMITATION ON LIABILITY

It is expressly agreed and understood that IHP's sole obligation and the purchaser's exclusive remedy under this warranty, under any other warranty, expressed or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified herein.

In no event shall IHP be liable for any incidental or consequential damages caused by defects in the Product, whether such damage occurs or is discovered before or after repair or replacement, and whether such damage is caused by IHP's negligence. IHP has not made and does not make any representation or warranty of fitness for a particular use or purpose, and there is no implied condition of fitness for a particular use or purpose.

IHP makes no expressed warranties except as stated in this Limited Lifetime Warranty. The duration of any implied warranty is limited to the duration of this expressed warranty.

No one is authorized to change this Limited Lifetime Warranty or to create for IHP any other obligation or liability in connection with the Product. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. The provisions of this Limited Lifetime Warranty are in addition to and not a modification of or subtraction from any statutory warranties and other rights and remedies provided by law.

### INVESTIGATION OF CLAIMS AGAINST WARRANTY

IHP reserves the right to investigate any and all claims against this Limited Lifetime Warranty and to decide, in its sole discretion, upon the method of settlement.

To receive the benefits and advantages described in this Limited Lifetime Warranty, the appliance must be installed and repaired by a licensed contractor approved by IHP.

Contact IHP at the address provided herein to obtain a listing of approved dealers/distributors. IHP shall in no event be responsible for any warranty work done by a contractor that is not approved without first obtaining IHP's prior written consent.

### HOW TO REGISTER A CLAIM AGAINST WARRANTY

In order for any claim under this warranty to be valid, you must contact the IHP dealer/distributor from which you purchased the product. If you cannot locate the dealer/distributor, then you must notify IHP in writing. IHP must be notified of the claimed defect in writing within 90 days of the date of failure. Notices should be directed to the IHP Warranty Department at 1508 Elm Hill Pike, Suite 108, Nashville, TN 37210 or visit our website at [WWW.ASTRIA.US.COM](http://WWW.ASTRIA.US.COM).

[illegible]

Keep receipt for warranty verification.



P126794-01



1508 Elm Hill Pike, Suite 108  
Nashville, TN 37210  
1-800-655-2008  
**[www.IHP.US.com](http://www.IHP.US.com)**

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Rev. A  
02/14