



Fire Magic[®]
The Ultimate Barbecue

**MONARCH GOURMET UNIBODY
BUILT - IN SERIES 1B
OUTDOOR GAS BARBECUE**

**INSTALLATION AND OPERATING
INSTRUCTIONS**

INSTALLER: Leave these instructions with consumer.

CONSUMER: Retain for future reference.



photo shows Monarch 1B built-in with gourmet oven and optional backburner & rotisserie.

IMPORTANT: READ THESE INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION

SAFETY WARNINGS & CODES

▲ DANGER

IF YOU SMELL GAS:

1. Shut off the gas to the appliance.
2. Extinguish any open flame.
3. Open lid if equipped with an oven.
4. If odor continues, keep away from the appliance, and immediately call your gas supplier or fire department.

▲ WARNING

1. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
2. An propane cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.

AVERTISSEMENT S'IL Y A UNE ODEUR DE GAZ:

1. Coupez l'admission de gaz l'appareil.
2. Éteindre toute flamme nue.
3. Ouvrir le couvercle.
4. Si l'odeur persiste, appeler immédiatement votre compagnie de gaz ou votre département des incendies.

AVERTISSEMENT

1. Ne pas entreposer ni utiliser de l'essence ni d'autres vapeurs ou liquides inflammables dans le voisinage de l'appareil, ni de tout autre appareil.
2. Une bouteille de propane qui n'est pas raccordée en vue de son utilisation, ne doit pas être entreposée dans le voisinage de cet appareil ou de tout autre appareil.

CODE AND SUPPLY REQUIREMENTS: This barbecue must be installed in accordance with local codes and ordinances, or, in the absence of local codes, with either the current *National Fuel Gas Code (ANSI Z223.1/NFPA 54)*, *Natural Gas and Propane Installation Code (CSA B149)*, or *Propane Storage and Handling Code (CSA B149.2)*.

This appliance and its individual shutoff valves must be disconnected from the gas supply piping system when testing the system at pressures in excess of ½ psig (3.5 kPa).

This appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valves during any pressure testing of the gas supply system at pressures up to and including ½ psig (3.5 kPa).

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information consult a qualified, professional installer, service agency, or the gas supplier.

All electrical outlets in the vicinity of the barbecue must be properly grounded in accordance with local codes or, in the absence of local codes, with the **National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.1**, which ever is applicable.

Keep all electrical supply cords and fuel supply hoses away from any heated surface.

Certified to ANSI: Z21.58

Robert H. Peterson Co. • 14724 East Proctor Avenue, • City of Industry, CA 91746

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PRODUCT DATA TABLE

| Specification | Value |
|-------------------------|---------------------|
| Counter Opening Height* | 12" (30.5 cm) |
| Counter Opening Width* | 37 7/8" (94.9 cm) |
| Counter Opening Depth* | 23 3/4" (59 cm) |
| Main Burner | |
| BTU per burner pair | 31,600 (9.2 kw) |
| Natural Gas Orifice | #45 (part# 3001-45) |
| Propane Gas Orifice | #56 (part# 3001-56) |

| Specification | Value |
|---------------------|-------------------------|
| Backburner | |
| BTU per burner | 28,000 (8.2 kw) |
| Natural Gas Orifice | #40 (part# 3001-40) |
| Natural Air Shutter | 5/8 -inch gap (.63 cm) |
| Propane Gas Orifice | #53 (part# 3001-50) |
| Propane Air Shutter | 7/16 -inch gap (.44 cm) |

Table 1 - Product Data Table

***Note:** If using an insulating liner, consult liner instructions for counter cut-out dimensions.

TOOLS AND SUPPLIES REQUIRED FOR INSTALLATION

- #2 (medium) Phillips screwdriver
- *3/8" (.95 cm) wrench or 3/8" (.95 cm) socket screwdriver

Note: 3/8" (.95 cm) socket if orifice change is required.

PARTS LIST

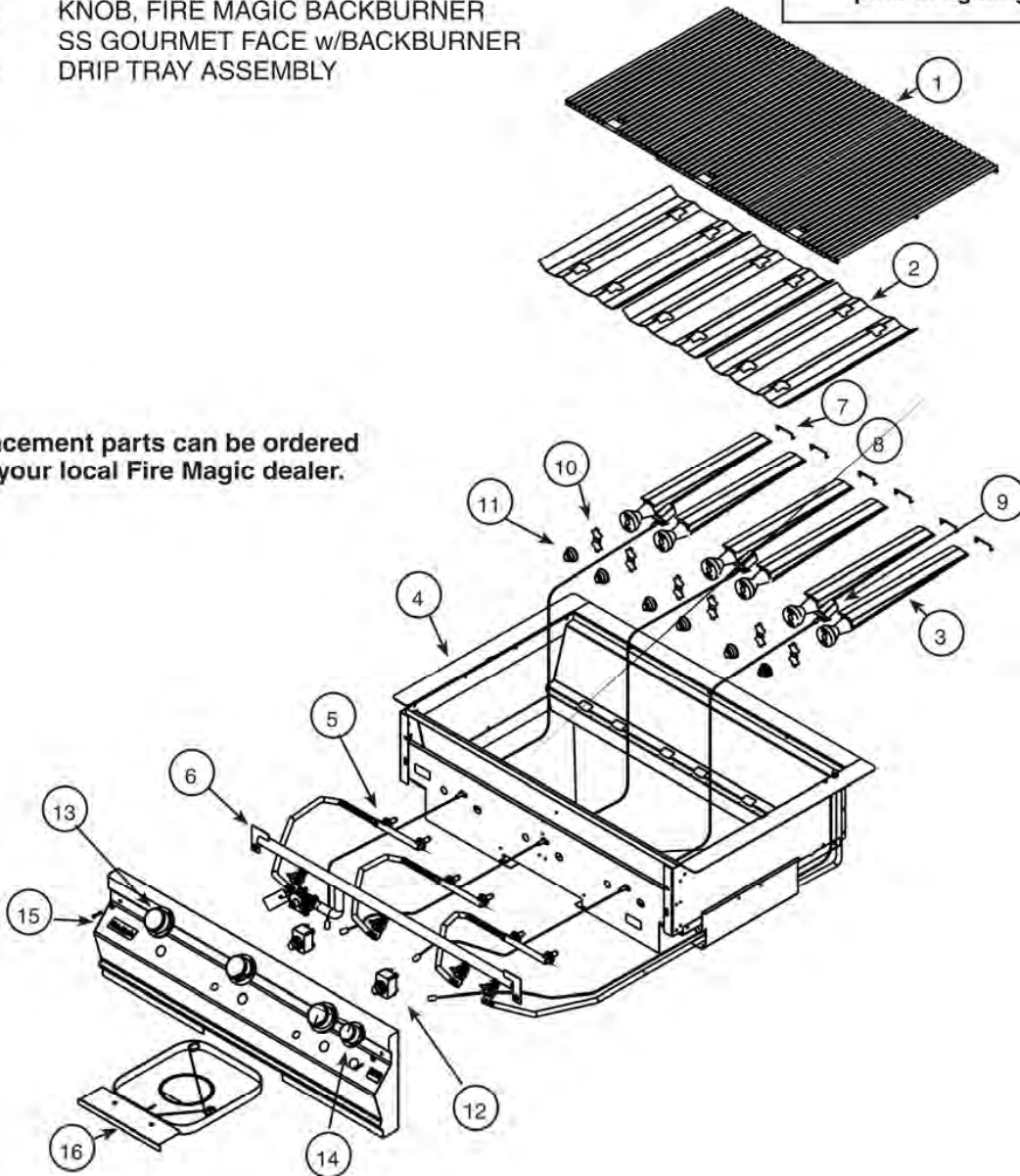
| Item | Description |
|------|--|
| 1. | GRILL. 22" X 12" S.S. ROD |
| or | PORCELAIN CAST IRON GRILL 22" X 6" |
| 2. | FLAVOR GRID 10" X 17" (3) |
| 3. | BURNER, LONG 304 CST S.S. (3) |
| 4. | GOURMET UNIBODY FRAME w/ HANGER, S.S. |
| 5. | BURNER, MANIFOLD ASSEMBLY (3) |
| 6. | VALVE MANIFOLD |
| 7. | CLIP, BURNER HOLD DOWN (3) |
| 8. | CROSSOVER BOX |
| 9. | ELECTRODE ASSEMBLY w/WIRING (3) |
| 10. | AIR SHUTTER, GAS BARBECUE (3) |
| 11. | SPRING, AIR SHUTTER (3) |
| 12. | IGNITOR ASSEMBLY (2) |
| 13. | KNOBS, FIRE MAGIC BARBECUE (3) |
| 14. | KNOB, FIRE MAGIC BACKBURNER |
| 15. | SS GOURMET FACE w/BACKBURNER |
| 16. | DRIP TRAY ASSEMBLY |

IMPORTANT

This Fire Magic oven and backburner are fully pre-assembled and tested at the factory.

DO NOT attempt to remove the oven and backburner from the barbecue prior to or during installation or damage to the connecting gas line and ignitor wiring may occur.

The plastic straps that secure the oven to the barbecue unit must be removed and discarded prior to lighting.

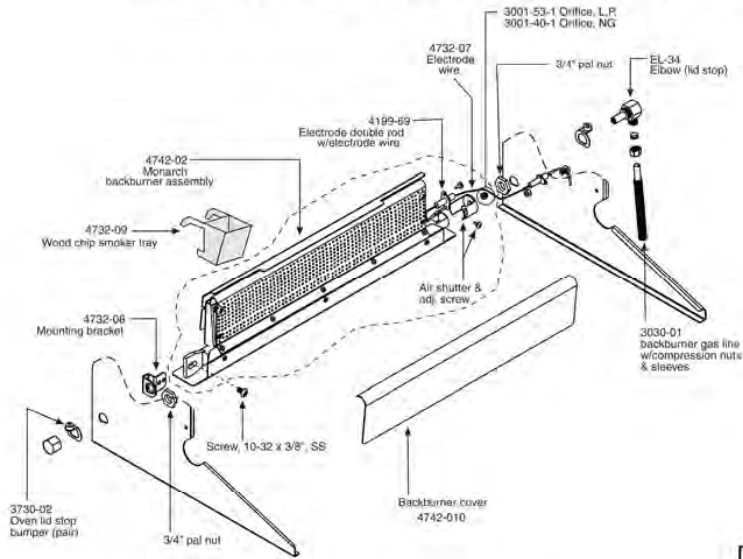


Replacement parts can be ordered from your local Fire Magic dealer.

MONARCH 1B GOURMET BACKBURNER & OVEN PARTS LIST

EXPLODED VIEW OF BACKBURNER ASSEMBLY

PARTS INCLUDED WITH THE BACKBURNER ASSEMBLY ARE INSIDE THE BROKEN LINE

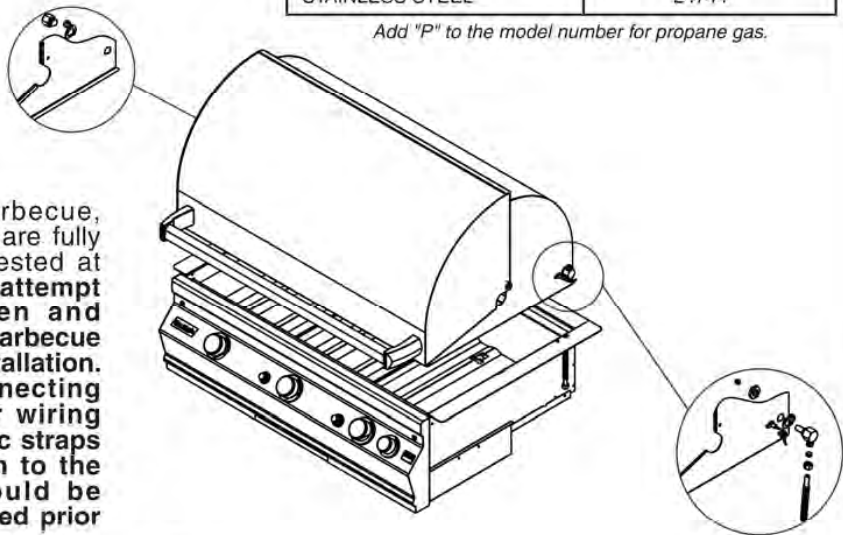


EXPLODED VIEW OF OVEN ASSEMBLY

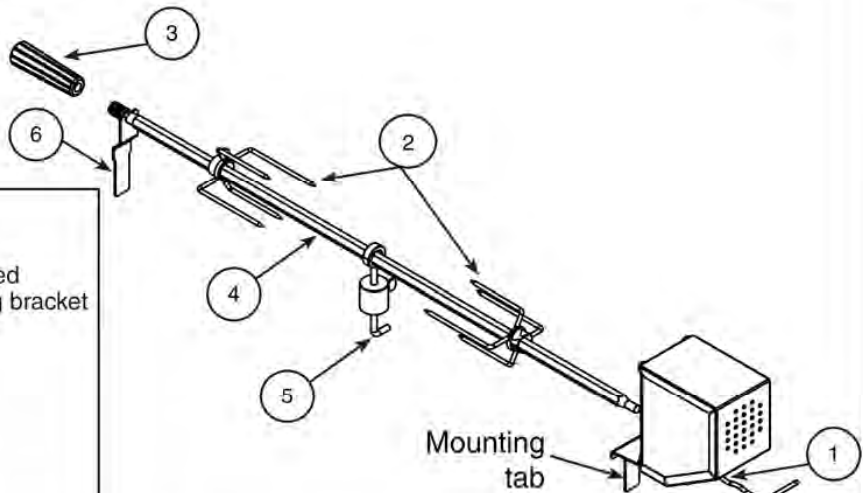
| OVEN w/BACKBURNER | MONARCH 1B |
|-------------------|------------|
| STAINLESS STEEL | 24744 |

Add "P" to the model number for propane gas.

Important: Your Fire Magic barbecue, oven, and backburner are fully pre-assembled and tested at the factory. **DO NOT attempt to remove the oven and backburner from the barbecue prior to or during installation.** Damage to the connecting gas line and ignitor wiring may occur. The plastic straps that secure the oven to the barbecue unit should be removed and discarded prior to lighting.



| Item No. | Description |
|----------|--|
| 1. | Super duty fan cooled motor with mounting bracket attached |
| 2. | Spit prongs |
| 3. | Handle |
| 4. | Spit rod 5/8" hex |
| 5. | Counterbalance |
| 6. | Spit bracket |



PLANNING FOR INSTALLATION OF YOUR MONARCH BARBECUE

Fire Magic barbecues are designed **FOR OUTDOOR USE ONLY**.

WARNING: Built-in models must be installed in masonry or other type of fireproof enclosure. The unit is NOT insulated and therefore must be installed with 18" (45.7 cm) of side and back clearance from unprotected combustible materials such as wood, plastic, or stucco with wood framing.

DO NOT install this unit under unprotected flammable surfaces. DO NOT install or use this appliance inside a building, garage, or any other enclosed area including recreational vehicles or boats.

This is a **SLIDE-IN TYPE** unit designed to fit into open-front enclosures. The front panel (face) of the unit is removable for gas hookup, servicing, and burner adjustment, and **MUST** remain removable after you install the unit.

Note: This unit should be installed so that it can be removed at a later date if factory service is required. Any protrusion into the barbecue enclosure may obstruct the frame and prevent the unit from sliding into place (see GAS SUPPLY REQUIREMENTS below).

ENSURING PROPER COMBUSTION AIR AND COOLING AIR FLOW

Maintaining a proper air flow for your Fire Magic barbecue is essential if it is to perform as it was designed (Fig. 5-1). If airflow is blocked, overheating and poor combustion will result. Make sure not to block the 1" (2.54 cm) front air inlet along the bottom of the barbecue face. **Note:** The 1" (2.54 cm) front air space allows access to the drip tray.

VENTILATION OF ENCLOSURES

When using propane gas, take **EXTREME CAUTION** to ensure ample ventilation of gas vapor. Propane vapor is invisible and heavier than air. A **DANGEROUS EXPLOSION** could occur, resulting in **SERIOUS INJURY, OR LOSS OF LIFE** if propane gas is allowed to accumulate and then ignite.

ELECTRICAL OUTLETS

All electrical outlets in the vicinity of the barbecue must be properly grounded.

Note: Keep electrical supply cords away from all heated surfaces.

EXHAUST REMOVAL

If installed under a patio roof, the grill area should be fully covered by a chimney and exhaust hood. An exhaust fan with a rating of 1000 CFM (cubic feet per minute) (472 liters per second) or more may be necessary to efficiently remove smoke and other cooking by-products from the covered area. Installation in fully-enclosed patio areas is not recommended.

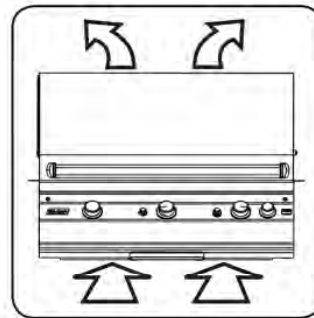


Fig. 5-1 - Ventilation Diagram

GAS SUPPLY REQUIREMENTS

Rigid 1/2" (1.27 cm) or 3/4" (.75 cm) black steel pipe, or local code approved pipe for temperatures up to 800°F (427°C), is required to conduct the gas supply into the enclosure opening for connection to the unit. **DO NOT use a rubber hose within the enclosure for the barbecue unit.** Apply only joint compounds that are resistant to all gasses on all male pipe fittings. Make sure to tighten every joint securely.

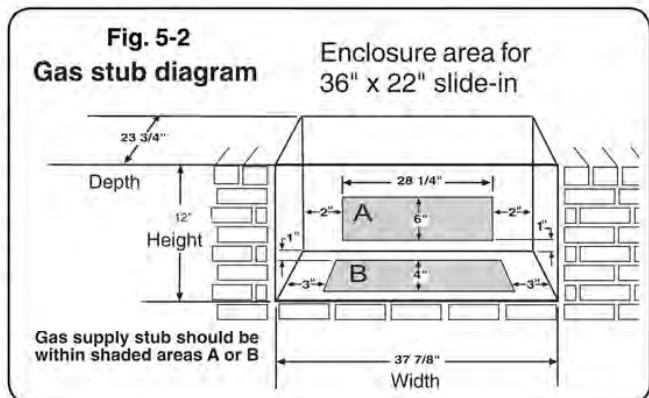
The gas supply pipe should enter from the rear wall of the enclosure behind the barbecue unit, at least 2" (5.1 cm) from either side, and between 1" (2.54 cm) and 7" (17.8 cm) above the bottom of the barbecue unit, as illustrated by the shaded area A in Fig. 5-2. If it is not possible to stub the gas line in from the back of the enclosure, the connection may be made through the floor at the rear of the enclosure. Install the gas line stub at least 3" (7.62 cm) away from the side walls and 1" (2.54 cm) from the back wall, but within 5" (12.7 cm) of the back wall, as illustrated by the shaded area B in Fig. 5-2.

GAS SUPPLY AND MANIFOLD PRESSURES:

For **Natural Gas** - Normal 7" (17.8 cm) water column (w.c.), minimum 5" (12.7 cm), maximum 10" (45.7 cm).

For **Propane Gas** - Normal 11" (27.9 cm) w.c., minimum 8" (20.2 cm), maximum 13" (33 cm).

Note: An external valve (with a removable key) in the gas line is necessary for safety when your barbecue is not in use. It also provides for convenient maintenance.



SAFE USE & MAINTENANCE OF PROPANE GAS CYLINDERS READ AND FOLLOW ALL WARNINGS PROVIDED WITH YOUR PROPANE GAS CYLINDER.

IMPORTANT FOR YOUR SAFETY

When operating this appliance with a propane gas cylinder these instructions and warnings **MUST** be observed.

FAILURE TO DO SO MAY RESULT IN A SERIOUS FIRE OR EXPLOSION.

For useful advice and help with constructing your barbecue contact your local Fire Magic dealer

CONNECTING YOUR MONARCH BARBECUE TO THE GAS SUPPLY

CONNECT THE GAS SUPPLY TO YOUR MONARCH BARBECUE

- a. You will need a C.S.A. approved stainless steel flex connector to bring the gas supply from the gas line stub to the valve manifold. A 1/2" (1.3 cm) x 36" (91.4 cm) or 48" (121.9 cm) flex connector with 1/2" flare to 1/2" (1.3 cm) pipe adapter on one end, and a 1/2" (1.3 cm) flare female fitting on the other end is suitable for most installations.

CAUTION: Use only stainless steel flex connectors that are C.S.A. listed.

WARNING

A rubber or plastic connector will rupture or leak, resulting in an explosion or serious injury, if used inside the barbecue enclosure.

- b. **Make sure that your gas supply is turned OFF.** Then connect the 1/2" (1.3 cm) pipe adapter fitting supplied with the stainless steel flex connector to the gas supply stub. Use pipe joint compound that is resistant to all gasses on the male pipe fitting and tighten securely. **DO NOT use pipe joint compound to connect the flare fittings.**

- c. Slide your barbecue into place, making sure not to pinch or kink the gas connector.
- d. Bring the flex connector under the left-side support wall of the frame (Fig. 6-1) and through to the regulator on the valve manifold.
- e. Connect the flex connector to the flared fitting of regulator on the valve manifold. Support the regulator fitting with a wrench to avoid applying excessive torque to the regulator assembly while tightening this connection securely (Fig. 6-1). **DO NOT use pipe compound on flare fittings.**
- f. Make sure the barbecue burner valves are in the **OFF** position. Turn the gas supply on. Then carefully check all gas connections for leaks with a brush and soapy water before lighting. **NEVER USE A MATCH OR OPEN FLAME TO TEST FOR LEAKS.**
- g. Refer to the **AIR SHUTTER ADJUSTMENT** instructions and **LIGHTING INSTRUCTIONS** of this manual before replacing barbecue face and knobs.

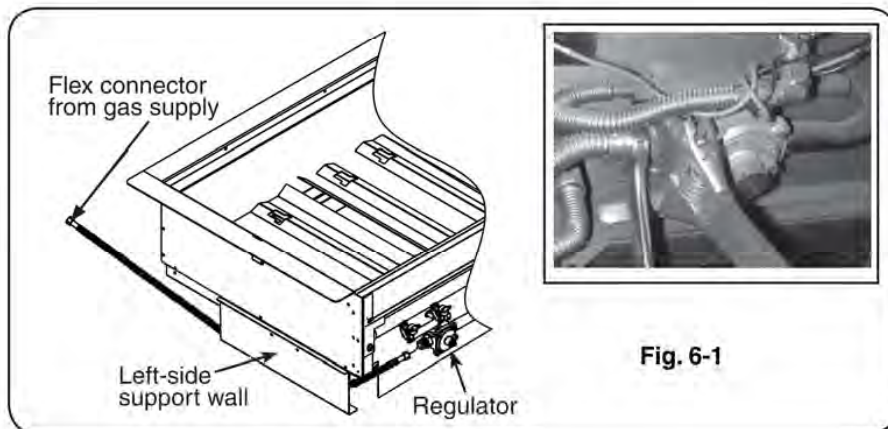


Fig. 6-1

SAFE USE & MAINTENANCE OF PROPANE GAS CYLINDERS

IMPORTANT FOR YOUR SAFETY

READ AND FOLLOW ALL WARNINGS PROVIDED WITH YOUR PROPANE GAS CYLINDER.

When operating this appliance with a propane gas cylinder these instructions and warnings **MUST** be observed.

FAILURE TO DO SO MAY RESULT IN A SERIOUS FIRE OR EXPLOSION.

CYLINDER AND CONNECTOR REQUIREMENTS AND SPECIFICATIONS

- Propane gas cylinders and valves must be maintained in good condition and must be replaced if there is visible damage to either the cylinder or valve.
- This barbecue, when used with a cylinder, should be connected to a standard 5 gallon (20lb.) propane gas cylinder equipped with an OPD (Overfill Prevention Device). The OPD has been required on all cylinders sold since October 1, 1998 to prevent overfilling.
- Cylinder dimensions should be approximately 12" (30.5cm) in diameter and 18" (45.7cm) high. Cylinders must be constructed and marked in accordance with the specifications for propane gas cylinders of the U.S. Department of Transportation (D.O.T.) or the National Standard of Canada, CAN/CSA-B339, Cylinders, Spheres and Tubes for Transportation of Dangerous Goods.
- The cylinder must include a collar to protect the cylinder valve and the cylinder supply system must be arranged for vapor withdrawal.
- The pressure regulator and hose assembly (Fig. 7-1) supplied with this outdoor cooking gas appliance must be used. Original and replacement pressure regulator and hose assemblies must be those specified by the Robert H. Peterson Co. for connection with a cylinder connecting device identified as Type I by the ANSI Z 21.58 and CGA 1.6-M95-1995 with Addenda ANSI Z 21.58a -1998 and CGA 1.6a - M98.
- The propane gas cylinder valve must be equipped with a cylinder connection coupling device, described as Type I in the standard defined in paragraph e. above. This device is commonly described as an Acme thread quick coupler.
- If your propane gas cylinder comes with a dust plug, place the dust cap on the cylinder valve outlet whenever the cylinder is not in use.

QUICK COUPLER OPERATION

To connect the regulator/hose assembly to the propane gas cylinder valve fitting: Press the hand nut on the regulator over the Acme thread fitting on the cylinder valve. Turn the hand nut clockwise to engage the threads and tighten until snug.

PROPANE CYLINDER ENCLOSURES

FOR YOUR SAFETY, you must provide the following openings below for drainage, replacement air, and cross ventilation of any storage area exposed to possible leakage from gas connections, the barbecue, or propane cylinder:

One side of the gas cylinder enclosure left completely open to the outside **OR** by providing four (4) ventilation openings. Two openings are to be at the cylinder valve level (approx. 16" (40.6 cm) above the floor) and on opposite walls of the enclosure. Two more openings must be at the floor level on opposite sides of the enclosure. The floor level openings must start at the floor and shall extend no higher than 5" (12.7 cm) above the floor. Each opening must have a minimum of 10 in. sq. (64.5 cm²) of free area. To achieve the proper ventilation, you may drill a series of holes, omit the grout from masonry joints or replace a brick with a hardware cloth screen. If the floor in the cabinet is raised and the space beneath the cabinet is open to the outside, the lower ventilation openings may be in the floor.

Consult your gas supplier for ventilation and regulator requirements when connecting to a household propane supply.

The use of pliers or a wrench should not be necessary. Only cylinders marked propane must be used.

To disconnect: Turn the hand nut counter-clockwise until detached (Fig. 7-1).

Important: Before using the barbecue, and after each time the cylinder is removed and reattached, check all connections for leaks. Turn off the barbecue valves and open the main cylinder valve, then check connections with soapy water. Repair any leaks before lighting the barbecue.

CAUTION: Always turn the propane cylinder main valve off after each use, and before moving the barbecue and cylinder, or disconnecting the coupling. This valve must remain closed and the cylinder disconnected while the appliance is not in use, even though the gas flow is stopped by a safety feature when the coupler is disconnected.

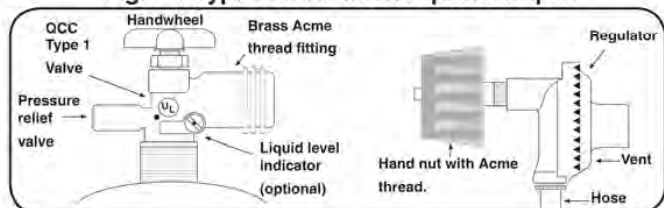
Carefully inspect the hose assembly each time before the gas is turned on. A cracked or frayed hose should be replaced immediately.

If the appliance is stored indoors, the cylinder must be disconnected and removed. **Cylinders must be stored out of doors and out of the reach of children** and must not be stored in a building, garage or any other enclosed area.

FOR YOUR SAFETY

- DO NOT store a spare propane gas cylinder under or near this appliance.
- NEVER fill the cylinder beyond 80 percent full.
- IF THE INFORMATION IN "a" AND "b" IS NOT FOLLOWED EXACTLY, A FIRE CAUSING DEATH OR SERIOUS INJURY MAY OCCUR.

Fig. 7-1 Type I Acme thread quick coupler



CHECKING AND CONVERTING GAS TYPE

This barbecue comes from the factory configured for one type of gas as marked on the label behind the barbecue face plate.

Converting this barbecue to burn a different type of gas requires a conversion kit from the factory. The professional installer that converts this barbecue to burn a different gas must perform the following functions:

1. Change replaceable, brass gas orifices (included at original shipping) on each burner to match the new gas type (see Table 1).
2. Switch the convertible gas regulator (included at original shipping) to match the new gas type (see below).
3. Plumb the unit to the new gas supply.
4. Apply a new label behind the faceplate indicating the new gas the barbecue will burn (included with conversion kit).

WARNING

HAZARDOUS OVERHEATING WILL OCCUR IF A NATURAL GAS ORIFICE IS USED WITH PROPANE GAS. IF YOU ARE NOT SURE THE CORRECT ORIFICES ARE INSTALLED, OR IF AN ORIFICE CHANGE IS NECESSARY, REFERTO THE FOLLOWING INSTRUCTIONS.

CAUTION: Make sure the barbecue is at a safe temperature and isolated from gas and electrical supplies before beginning the tasks outlined below.

Note: The cooler the barbecue, the greater the tolerances between the stainless steel parts, and therefore the easier to disassemble and reassemble parts of the barbecue.

For your safety, exercise caution, and make sure you have adequate hand protection, such as gloves, when handling removable sheet metal parts of the barbecue.

CHECKING AND CONVERTING THE REGULATOR

Barbecue regulator:
note the cap on top



Note: Each end of the plastic converter is engraved with either the letters NAT or L.P. (propane) for the respective gases. When the converter is in the cap and the cap is held uppermost, the letters seen indicate the gas that the regulator is set up for.

To convert the regulator from one gas to another follow steps 1-4.



STEP 1:
Unscrew and remove the cap from the regulator, extracting the converter.

Read gas
type here



STEP 3:
Turn the converter around and replace carefully into the center of the cap (it will snap into place). Check that you can read the type of gas the unit is set for.



STEP 2:
Remove the converter (the plastic stalk) by carefully pulling it away from the center of the cap (it will snap out of its seating).



STEP 4:
Replace the unit into the regulator and screw down until snug.

WARNING

THIS APPLIANCE REGULATOR IS RATED FOR 1/2 PSI MAXIMUM. IF YOUR GAS SUPPLY IS GREATER THAN 1/2 PSI, AN ADDITIONAL REGULATOR MUST BE INSTALLED BEFORE THE BARBECUE. SEE GAS SUPPLY REQUIREMENTS SECTION FOR PROPER GAS SUPPLY PRESSURE.

BACKBURNER PREPARATION AND USE

CHECK BACKBURNER FUEL ORIFICE SIZE

Your backburner is equipped with a natural gas orifice unless otherwise indicated. To use propane gas, you must use a smaller orifice. Hazardous overheating will occur if a natural gas orifice is used with propane gas. Refer to Table 1 for the correct orifice size.

If you are not sure, or if an orifice change is necessary, refer to the instructions included with the replacement orifice which is packed with the barbecue.

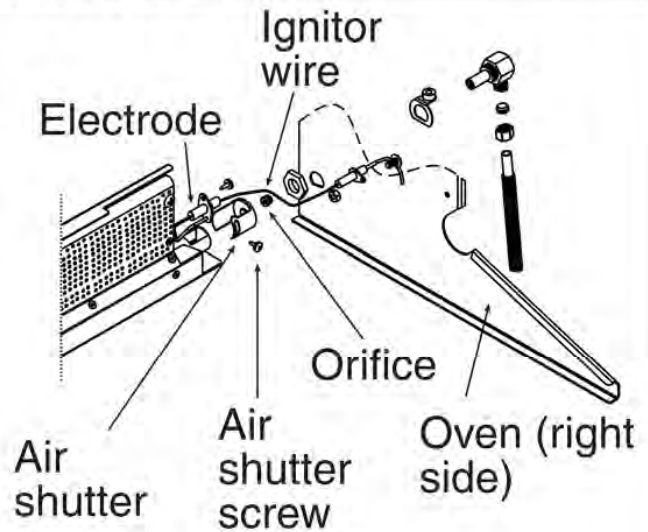


Fig. 9-1

The Backburner Cover

The backburner cover is installed by placing the curved part of the cover over the top of the perforated portion of the backburner (see Fig. 9-1). The cover should be kept in place on the backburner when it is not in use. This will keep your backburner free from grease splatter and debris that may hinder its performance.

Important: You must remove the backburner cover before lighting the backburner.

AIR SHUTTER ADJUSTMENT

MAIN BURNER AIR SHUTTER ADJUSTMENT

Important: The air shutters must be adjusted after installation. If not this appliance may not light or heat evenly or cook properly.

Main burner air shutters are easily accessed by removing the front panel (face). The air shutters are located at the front of the burners behind the face (see PARTS LIST). The air shutter has a small dimple (see Fig. 10-1), which allows it to lock into notches in the burner face. This prevents the air shutter from moving.

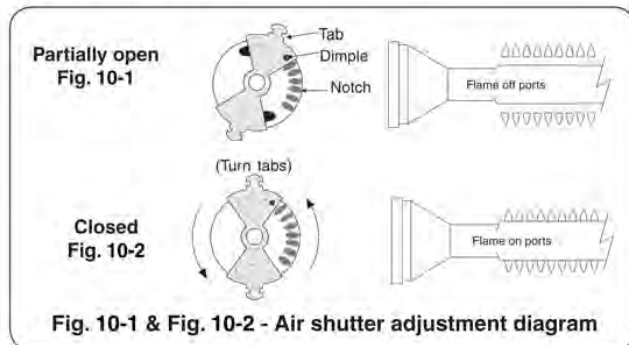
WARNING

USE PROPERLY INSULATED TOOLS TO MAKE THESE ADJUSTMENTS. NEVER TOUCH A HOT BARBECUE DIRECTLY TO MAKE ADJUSTMENTS.

1. Using the tip of a long screwdriver, close the air shutters by turning the tabs to a vertical position (Fig. 10-2).
2. Light the barbecue in accordance with the lighting instructions and burn for 2 minutes with the knobs on **HI LIGHT** and the oven open.
3. After burning for two (2) minutes, open the air shutters **using the tip of a screwdriver** until the flames lift off, or appear not to be touching the burners (Fig. 10-1).
4. Begin closing the air shutters **with the tip of a screwdriver** until the flames appear to burn while touching the burner ports. (Fig. 10-2).

Note: You may then see short yellow tips on the flames. If flames are a lazy yellow, open the air shutters until the flame is blue with yellow tipping.

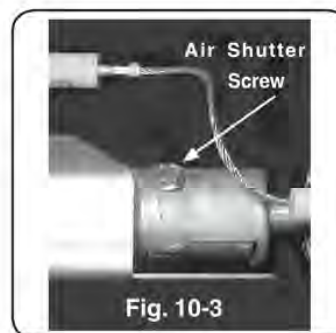
Note: Barbecues in some installations achieve a better air/gas mixture and will ignite more quickly if the valve is first turned beyond **HI LIGHT** to **LOW** for lighting.



BACKBURNER AIR SHUTTER ADJUSTMENT

Important: It is normal for the backburner to smoke when it is burned for the first time. Burning your backburner on **HI LIGHT** for approximately 15 minutes will eliminate the smoking.

- a. The air shutter on your backburner is preset at the factory. However, due to atmospheric conditions and different gas pressures, it may be necessary to adjust the air shutter to obtain a proper burn.
- b. First remove the backburner cover (if installed), then loosen the air shutter screw (see Fig. 10-3). It may be necessary to use pliers to turn the air shutter. Light the backburner. With the control knob on **HI LIGHT** adjust the air shutter to have a blue flame that is not lifting off the burner (it may also have slightly yellow tips).
- c. Tighten the air shutter adjustment screw.



BARBECUE SAFETY INFORMATION & MAINTENANCE

Each time you use your barbecue, make sure that: DRIP COLLECTION SYSTEM

1. The area around the barbecue is clear of flammable substances such as gasoline, yard debris, wood, etc.
2. There is no blockage of the air flow through the vent space located below the face of the unit.
3. When using propane gas:
 - a. The special ventilation openings in the enclosure are kept free and clear of debris.
 - b. If connected to a propane cylinder, the rubber hose attached to the regulator is carefully inspected before each use.
 - c. The propane cylinder, regulator, and rubber hose are installed in a location not subject to heating above 125° F (51° C).
4. The burner flames burn evenly along both sides of each burner with a steady flame (mostly blue with yellow tipping. See section on AIR SHUTTER ADJUSTMENT). If burner flames are not normal, check the orifice and burner for insects or insect nests.
5. The in-line gas valve or gas cylinder valve is always shut **OFF** when the barbecue is not in use.
6. The drip collector hole is clear and unobstructed. Excessive grease deposits can result in a grease fire.

The drip collector in this barbecue is part of the unit's main frame and is located below the burners. The drip collector has one hole that will allow excess drippings to fall through during cooking, while separating the firebox from the drip tray.

The drip collector allows you to brush or scrape residue from the barbecue's inner liner into the drip tray. Regular cleaning of your barbecue's interior with oven cleaner, following manufacturer's instructions, will prevent grease fires.

Periodically check the burners to make sure they are clear of debris. The burner flames burn evenly along both sides of each burner with a steady flame (mostly blue with yellow tipping). If burner flames are not normal, check the orifice and burner for insects or insect nests. (See section on checking/converting the burner orifices for instructions on burner removal and replacement).

WARNING

NEVER cover the *entire* cooking or grill surface with griddles or pans. Overheating will occur and burners will not perform properly when combustion heat is trapped below the cooking surface.

CAUTION: NEVER spray water on a hot gas unit, as this may damage porcelain or cast iron components.

LIGHTING (IGNITION) INSTRUCTIONS

Read entire instruction before lighting and follow these instructions each time you light the barbecue.

ELECTRONIC LIGHTING

1. Open all lids and remove all covers from the burners you wish to light.
2. Turn all gas control knobs to their **OFF** positions.
3. Turn on the gas at its source.

Note: No matter which lighting method you use,

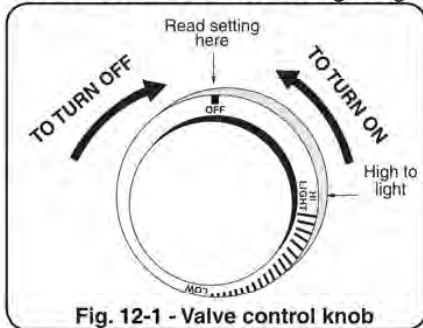


Fig. 12-1 - Valve control knob

DO NOT turn on the gas to more than one burner at a time. Adjacent barbecue burners will cross-ignite and gas flow may be restricted.

CAUTION: If the burners do not light within 5 seconds, depress the control knob and turn the knob to **OFF**. **WAIT 5 MINUTES** before repeating step 5. If you smell gas follow the instructions on the cover of this manual. If the burners still do not light after several attempts, refer to the instructions for **MANUAL LIGHTING**.

4. Depress the control knob for the burner to be lit and turn it to the **HI LIGHT** position, then press the ignition button. Once the burner lights, release the ignition button.
5. Repeat step 4 for each additional burner to be lit.

FOR PROPANE ONLY

Propane tanks are equipped with a safety shut-down device that may cause low or no gas pressure/flame at the burners if operating and lighting instructions are not followed exactly (See important note in the **TROUBLESHOOTING** section for more details.)



Fig. 12-3 - Manual lighting

REMEMBER: FOR SAFE MANUAL LIGHTING, PLACE A BURNING MATCH OR BUTANE LIGHTER BESIDE THE BURNER - **THEN TURN ON THE GAS** (see Fig. 12-3).

Note: Barbecues in some installations achieve a better air/gas mixture and will ignite more quickly if the burner control knob is first turned beyond **HI LIGHT** to **LOW** for lighting.

MANUAL LIGHTING

CAUTION: Always wait 5 minutes for gas to clear after any unsuccessful lighting attempt.

1. Follow steps 1 through 4 (left).
2. Insert either a burning long-barrel butane lighter, a burning long-stem match, or a burning match held by a wire extension holder (Fig. 12-2) through the cooking grids to the burner (Fig. 12-3). For backburners, hold the flame against the perforated material of the back burner. For sideburners, hold the flame against the burner.

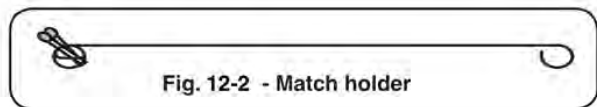


Fig. 12-2 - Match holder

3. While holding the match or lighter flame next to the burner, depress the appropriate burner control knob and turn it counter-clockwise to the **HI LIGHT** position. When the burner lights, remove the lighter or match.
4. If the burner does not light, **IMMEDIATELY** depress the knob and turn the burner control knob to **OFF**. **WAIT 5 MINUTES** before repeating steps 2 through 4 of the **MANUAL LIGHTING INSTRUCTIONS**.

SHUTTING OFF THE GRILL

To shut off the grill, push in each valve control knob and turn it clock-wise to the **OFF** position.

Always close the valve to the gas supply after each use of the barbecue.

ADJUSTING THE FLAME

The knobs on the face of the barbecue control the valves and adjust the flame height. The first labeled position is **OFF**, the second **HI LIGHT**, and the third **LOW**. In between the **HI LIGHT** and **LOW** labels are mid-point marks. Flame height can be set anywhere between the **HI LIGHT** and **LOW** settings.

The height of the flame **with a valve in LOW position** may be further regulated by means of a small adjusting screw in the center of the valve stem. This screw is accessible by removing the valve knob, which pulls straight off the end of the valve stem.

ROTISSERIE INSTRUCTIONS

USING YOUR BACKBURNER AND ROTISSERIE

Rotisserie cooking with the backburner is accomplished without use of the main burners. Follow the steps in the appropriate sections below to set up and use these accessories (see PARTS LIST for image).

SET UP

1. Remove the back burner cover (if present) by sliding it upward off of the backburner.
2. Remove the cooking grids from your barbecue, if necessary, to obtain maximum clearance for larger cuts. The flavor grids may also be removed if required.

Tip: Aluminum foil or a baking pan may be placed over the main burners to catch excess drippings from cooking.

3. Attach the rotisserie motor to the barbecue frame by inserting the tab of the bracket attached to the motor into the slot on the right of the barbecue so that the spit rod will fit into the motor drive socket from the left. If left-side spit support is not already in place, insert it into the tab on the left side of the barbecue at this time.
4. Follow the LIGHTING INSTRUCTIONS to light the backburner.
5. Allow the backburner to preheat for approximately 10 minutes on **HI LIGHT** setting.

PUTTING THE MEAT ON THE SPIT ROD

1. Slide the meat and spit prongs onto the spit rod so the meat is centered and balanced as well as possible.
2. Tighten the spit prongs into place so that the meat remains in a fixed position on the rod and the meat rotates with the rod.

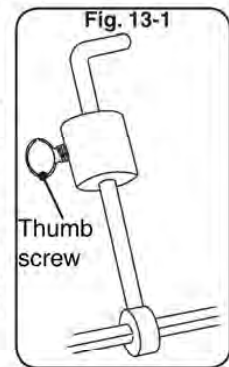
Important: The counterbalance, which is included with your rotisserie kit, should be used to balance the load on your rotisserie and prolong the life of your motor. Heavy unbalanced meats can stress the rotisserie motor and may cause motor failure.

USING THE COUNTERBALANCE SUPPLIED WITH YOUR ROTISSERIE

1. Hold the spit rod at each end and lift. **Do not grip the rod.** Let the rod rotate so the heavy

side of the meat hangs down naturally.

2. Turn the counterbalance on the spit so the counterbalance rod and weight point upward, or opposite from the heavy side of the meat. Tighten the counterbalance rod in the hub against a flat surface of the spit rod to secure (Fig. 13-1).



3. Loosen the thumb screw and slide the weight along the counterbalance rod to balance the meat. Since meats are not a uniform shape, it may not be possible to achieve a perfect balance. Properly balanced meat should not rotate when you hold the spit rod loosely by the ends.
4. Make sure the counterbalance will not strike the barbecue frame when the rotisserie is started.

RUNNING THE ROTISSERIE

1. Place the pointed end of the spit rod into the motor drive socket and rest the handle end of the spit rod in the spit bracket on the right side of the barbecue.
2. Plug in (if necessary) and turn on the rotisserie motor.
3. Use a standard roasting guide to estimate the length of time for your meat. A meat thermometer may also be used to tell when your favorite cuts are cooked to your liking. When testing temperatures with a thermometer, turn off the rotisserie motor and turn the backburner on **LOW**. This will keep the meat from over cooking on one side.

Important: Operate your backburner with the oven closed. This simulates an oven effect and helps your meat cook faster. Constant rotation of the spit assures even cooking and maximum retention of juices.

Note: On large cuts of meat or whole turkeys, it may be necessary to reduce the heat from your backburner. Cooking your food at a lower temperature for a longer period of time will keep the outer surface from burning while cooking the interior of your meat. In any case it is normal for the back burner grating to glow red when operating properly.

ACCESSORIES

USING THE GRILL SCRAPER

The triangular stainless steel piece with serrated edges is designed to be used as a tool to quickly and easily scrape food particles and drippings off your grill after barbecuing. To use it, simply align one of the edges of the scraper so that the cooking grid bars fit into the grooves in the serrated edge, and then scrape it along the length of the cooking grid. Repeat as needed.

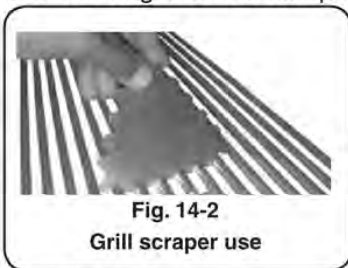


Fig. 14-2
Grill scraper use

USING THE COOKING GRILL LIFTER

Hold the grill lifter by gripping the center section with the prongs pointing down (use an oven mitt or heavy glove if the grill is hot). Insert the notched end of the grill lifter into the grill, in front of the midway point (front to back- Fig. 14-3), and central (left to right- Fig. 14-4). Twist the grill lifter (clockwise or counter-clockwise) so the handle is parallel to the grill rods. This "seats" the spiked end of the grill lifter between two rods, enabling you to safely lift the grill out of the barbecue. Lift slowly and adjust the grill lifter, if necessary, to balance.

DRIP PAN

The drip collection system allows you to brush or scrape excess dried residue inside the barbecue directly into the drip pan (see PARTS LIST for drip pan location). To simplify cleanup when using the rotisserie, you may place a baking pan or foil under the rotisserie to collect the drippings. Clean the drip pan after each use.

THE FLAVOR GRID

Place the flavor grids directly on the burners. Center the grid over the burners with the open side up. This allows heat from the burners to be evenly distributed throughout the cooking area. The flavor grid heats and cools quickly, making your Fire Magic barbecue very responsive to the changes you specify in grill temperature.

The flavor grid is made of stainless steel or coated with high temperature porcelain. Either finish is rust resistant and may be cleaned with standard oven cleaners.



Fig. 14-6

WARMING RACK

The warming rack (Fig. 14-1) is packed separately with the barbecue.

To install the warming rack, lift the front of the rack up slightly and insert the rack hangers into the two holes in the back of the barbecue above the backburner. Then lower the front of the rack into a level position to lock the rack in place.

To remove the warming rack, lift up on the front of the rack until the rack hangers pull free from their supporting holes.

Note: For best results, remove the warming rack before using the rotisserie.

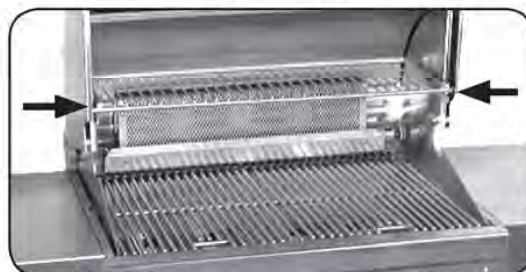


Fig. 14-1 Warming rack in place inside oven



Fig. 14-3
Placement of the grill lifter in grill



Fig. 14-4

BARBECUE CARE & CLEANING

CARE AND CLEANING

Your new Fire Magic barbecue represents the latest and most advanced technology available. In order to continue to enjoy the benefits of this technology and to protect your investment, we recommend the following:

Cover your barbecue with a Fire Magic cover when not in use.

Clean the unit with a quality stainless steel cleaner at least once a month (see Fig. 15-1).

Note: In a humid environment, due to the nature of stainless steel, iron oxide deposits may appear. Do not be alarmed – these deposits are removable with stainless steel cleaner during periodic maintenance.

Check the burner ports annually for blockage.

The inside of your barbecue may be cleaned periodically with oven cleaner if desired. Follow the oven cleaner instructions for proper use.

By following these recommendations you will enjoy the beauty and power of your barbecue for many years to come.



Fig. 15-1 - Wipe with grain

BARBECUE COVER

PROTECTING YOUR BARBECUE

An optional heavy-duty cover will protect the finish on your barbecue and preserve your investment. The water repellent material will shield the barbecue from corrosion and oxidation.

To provide a custom fit, each cover has been cut and sewn by hand for a particular smoke oven model. Make sure to give the model number of your barbecue when ordering a cover from the manufacturer or your local dealer.

To maintain and protect your barbecue cover, occasionally wipe the outside with a sponge soaked

in water and a mild household detergent or cleaner and rinse with a clean damp cloth.

Important: Allow barbecue to cool before covering.

Important: Always close the gas supply shut off valve to the barbecue. If storing the barbecue for a long period of time, disconnect the barbecue from the gas supply completely.

Always check the burners after long periods of disuse to look for obstructions that may hamper performance and safe operation of your barbecue.



Fig. 15-2

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REPLACING THE IGNITOR BATTERY

1. Remove the ignitor cover by turning it counter-clockwise.



Important: Do not attempt to pull or turn the rubber cap.



2. Remove battery for replacement. The battery is re-installed with the negative (-) end out.



3. After properly inserting the battery, replace the ignitor cover by turning the cap clockwise.



Note: If you have accidentally removed the rubber cap, follow the instructions below to replace it.

1. Pull the rubber cap and the inner plastic sleeve apart.



2. Carefully insert the inner lip so it sits behind the cap.



TROUBLESHOOTING

If you have trouble with your gas barbecue, please use this list to identify the problem. By trying one or more of the solutions to the possible cause you should be able to solve the problem. If this list does not cover your present problem or if you have other technical difficulties with the barbecue, please contact your local barbecue dealer.

| PROBLEM | POSSIBLE CAUSE | CORRECTION |
|-------------------------|---|---|
| Ignition system failure | 1) Improper air shutter adjustment | 1) Adjust air shutters. |
| | 2) Ignition wire disconnected | 2) Re-plug wires into generator. |
| | 3) Low gas pressure | 3) Adjust or replace battery. |
| | 4) Dead battery | 4) Replace battery. |
| Insufficient heat | 5) Improper air shutter adjustment | 5) Adjust air shutters. |
| | 6) Using propane orifice for natural gas | 6) Change orifices. |
| | 7) Low gas pressure/flame (natural) | 7) Have gas company check the operating pressure at the barbecue. |
| | 8) Low gas pressure/flame (propane) | 8) Reset propane tank safety*: Shut off all valves including propane tank and follow lighting instructions exactly. |
| Uneven heating | 9) Burner ports partially blocked by debris | 9) Remove burners and clean out ports. |
| | 10) Small spiders or insects in burner | 10) Inspect burners for spider webs or other debris that may block gas flow. |
| Rotisserie noisy | 11) Rotisserie out of balance | 11) Adjust counterbalance. |

Table 3 - Troubleshooting

*Propane tanks are equipped with a safety shut-down device that may cause low or no gas/flame at the burners if operating and lighting instructions are not followed exactly. If you suspect the propane tank safety shut-off is in effect, shut off all burner control valves and the propane tank valve. Then read and follow the LIGHTING INSTRUCTIONS exactly. Lighting instructions are located in your owner's manual and printed on the barbecue's metal drip tray. If the problem persists continue troubleshooting or contact your local dealer or R. H. Peterson for assistance.

FIRE MAGIC OUTDOOR GAS BARBECUES LIMITED WARRANTY

PLEASE COMPLETE AND RETURN YOUR REGISTRATION CARD WHICH IS INCLUDED WITH YOUR BARBECUE

LIFETIME WARRANTY - Fire Magic cast stainless steel burners, stainless steel rod cooking grids, and stainless steel housings (including liners, frames, ovens, and barbecues faces) are warranted for as long as you own your Fire Magic barbecue.

FIFTEEN YEAR WARRANTY - Fire Magic cast brass burners, brass valves, backburner assemblies (except ignition parts), manifold assemblies, and porcelain hoods and faces are warranted for 15 years from the date of purchase of your Fire Magic barbecue.

THREE YEAR WARRANTY - Fire Magic sideburners and all other Fire Magic barbecue components (except ignition parts) are warranted for 3 years from the date of purchase of your Fire Magic barbecue.

Fire Magic ignition systems and barbecues accessories are warranted for one year from date of purchase.

PLEASE KEEP A COPY OF YOUR SALES SLIP FOR PROOF OF PURCHASE

This warranty applies to the original purchaser with invoice or proof of purchase and covers Fire Magic products intended for personal, family, or household usage only. It does not apply to rust, corrosion, oxidation, or discoloration, which may occur due to moisture or overheating, unless the affected component becomes inoperable. This warranty does not cover parts becoming defective by misuse, accidental damage, improper handling, and/or installation. It does not cover labor or labor related charges. It specifically excludes liability for indirect, incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specified legal rights and you may have other rights which may vary from state to state.

For additional information regarding this warranty, or information on how to place a warranty claim, contact your authorized Fire Magic dealer.

ROBERT H. PETERSON CO.

Quality Check

Date: _____

Orifice # (Main): _____

Orifice # (Other): _____

Leak Test: _____

Burn Test: _____

Gas Type: NAT. / PROPANE

Model #: _____

Serial #: _____

Air Shutter: _____

Inspector: _____

Robert H. Peterson Co. • 14724 East Proctor Ave. • City of Industry, CA 91746