

Broil King®

OWNER'S MANUAL

FOR USE WITH L.P. (LIQUID PETROLEUM GAS)
IN CANADA, PROPANE GAS



ANSI Z21.58-2018 / CSA 1.6-2018

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NOTE TO INSTALLER: THESE INSTRUCTIONS MUST BE LEFT WITH THE CONSUMER.



DANGER

IF YOU SMELL GAS:

1. SHUT OFF GAS TO THE APPLIANCE
2. EXTINGUISH ANY OPEN FLAME
3. OPEN LID
4. IF ODOR CONTINUES, KEEP AWAY FROM THE APPLIANCE AND IMMEDIATELY CALL YOUR GAS SUPPLIER OR YOUR FIRE DEPARTMENT



WARNING

1. DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE LIQUIDS OR VAPORS IN THE VICINITY OF THIS APPLIANCE
2. AN LP CYLINDER NOT CONNECTED FOR USE SHALL NOT BE STORED IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE

PLEASE RECORD YOUR MODEL NUMBER, SERIAL NUMBER AND DATE OF PURCHASE HERE.

This information can be found on the black and silver OMC caution sticker on the back or side of your gas grill.

Model Number

| | | | | - | |

Serial Number

| | - | | | | |

Date of Purchase

/ /
dd mm yyyy

**READ ALL INSTRUCTIONS CAREFULLY BEFORE OPERATING YOUR GAS GRILL.
RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.**

FOR ASSEMBLY INSTRUCTION, PLEASE SEE YOUR ASSEMBLY MANUAL
OR VISIT www.omcbbq.com TO VIEW OUR ASSEMBLY VIDEOS.

1-800-265-2150
info@omcbbq.com

Onward
MANUFACTURING COMPANY
SINCE 1906
585 KUMPF DRIVE
WATERLOO, ONTARIO, CANADA
N2V 1K3
LIMITED

EN
20094-40LP REV L 03/18

SAFETY

Your new OMC gas grill is a safe, convenient appliance when assembled and used properly. As with all gas-fired products, however, certain safeguards must be observed. **Failure to follow these safeguards may result in serious injury or damage.** If you have questions concerning assembly or operation, consult your dealer, gas appliance specialist, Gas Company or our direct customer service line at 1-800-265-2150. / info@omcbbq.com

CAUTION

- **FOR OUTDOOR USE ONLY.**
- **IF STORED INDOORS, DETACH AND LEAVE CYLINDER OUTDOORS.**
- **THIS APPLIANCE MUST NOT BE OPERATED UNATTENDED.**
- **SPECIAL CARE MUST BE TAKEN TO KEEP SMALL CHILDREN AWAY FROM HEATED SURFACES.**

Use caution when handling or transporting this product. Metal edges can be hazardous. Use appropriate gloves when lifting or handling. Before lifting, remove side shelves, grids and grates.

ELECTRICAL CAUTION

1. If any accessory is used on this appliance that requires an external electrical power source, the accessory when installed must be electrically grounded in accordance with local codes. In the absence of local codes, the following standards apply:

**(U.S.A.) ANSI/NFPA No. 70-Latest Edition and
(Canada) CSA C22.1 Canadian Electrical Code**

2. Do not cut or remove the grounding prong from the plug.
3. Keep the electrical supply cord and fuel supply hose away from any heated surface.

PROPOSITION 65 WARNING

Handling the brass material on this product exposes you to lead, a chemical known to the state of California to cause cancer, birth defects or other reproductive harm. **WASH YOUR HANDS AFTER HANDLING THIS PRODUCT.**

WARNING

Fuels used in gas or oil-fired appliances, and the products of combustion of such fuels, contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. "This warning is issued pursuant to California Health and Safety Code Sec. 25249.6"

INSTALLATION

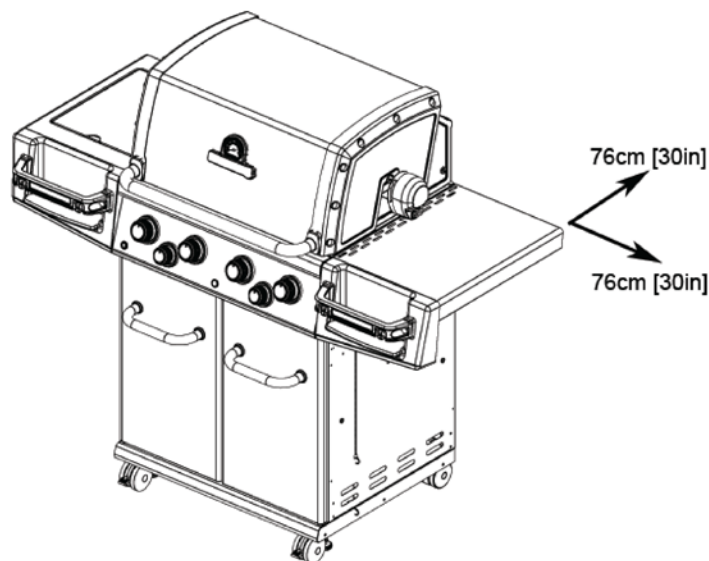
1. In the U.S.A., this appliance must be installed in accordance with the local code and the relevant national code:

ANSI Z223.1/NFPA 54 - Latest Edition National Fuel Gas Code and Latest Local Codes where Applicable

2. In Canada, this appliance must be installed in accordance with the local code and the relevant CSA standards:

CSA-B149.1 Natural Gas and Propane installation Code

3. The appliance must be located away from combustible surfaces by at least 76cm / 30" from each side, and 76cm / 30" from the rear.



4. Do **not** operate this appliance under any overhead roof construction or foliage.
5. This appliance is for **OUTDOOR USE ONLY, DO NOT** operate in garage, shed, balcony or other such enclosed areas.
6. **DO NOT** restrict the flow of air to the appliance.
7. Keep the area surrounding the appliance free of combustible materials, gasoline, and all flammable liquids and vapors.
8. This appliance is not intended to be installed in, or on, recreational vehicles and/or boats.
9. Keep the ventilation opening(s) of the cylinder enclosure free and clear from debris.

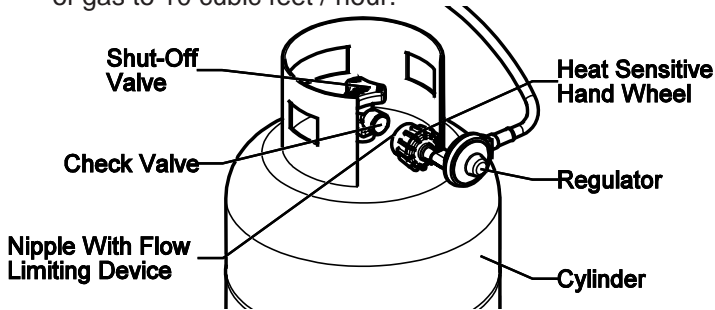
LP GAS CYLINDER PLACEMENT

The instructions below apply to LP models only. LP gas cylinders must be installed according to assembly instructions using retainer provided. Do not store a spare cylinder under or near this appliance. All cylinders used must be compatible with supplied means of cylinder retention.

LP GAS CYLINDER

QCC®-1 QUICK CLOSING COUPLING

1. All OMC models are designed to be used with an LP gas cylinder equipped with the QCC®-1 Quick Closing Coupling system.
2. The QCC®-1 system incorporates safety features required by the American National Standards Institute (ANSI) and the Canadian Standards Steering Committee.
 - Gas will not flow until a positive connection has been made.
 - A thermal element will shut off the flow of gas between 240° and 300° F.
 - When activated, a Flow Limiting Device will limit the flow of gas to 10 cubic feet / hour.



3. **The LP Gas Cylinder is not included with the Gas Grill.** Be sure to purchase one with the QCC® valve. This valve is recognized by the external threads on the inlet port of the valve. QCC® equipped cylinders are available from your Gas Grill Dealer.

NOTE: Any attempt to connect the regulator, by use of adapters or any other means, to any other valve could result in damage, fire or injury and may negate the important safety features in the QCC®-1 system.

SPECIFICATION

1. All LP gas cylinders used with this appliance must be constructed and marked in accordance with the Specifications for LP 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 ; and Commission, as applicable
2. The LP gas cylinder used for this appliance must not have a capacity exceeding 20 lb. (9 kg). Approximately 18" (46cm) high and 12" (31cm) diameter
3. All LP gas cylinders used with this appliance should be inspected at every filling and re qualified by a licensed service outlet at the expiry date (10 years), in accordance with the DOT (USA) and Canadian Transport Commission (Canada) codes for LP Gas Cylinders..
4. All LP gas cylinders used with this appliance must be provided with a shutoff valve terminating in a cylinder valve outlet No. 510, specified in the Standard for Compressed Gas Cylinder Valve Outlet and Inlet Connection (USA) ANSI/CGA-V-1-1977 (Canada) CSA B96.

5. The cylinder supply system must be arranged for vapor withdrawal.
6. The cylinder must include a collar to protect the cylinder valve.
7. The cylinder must be installed as per assembly instructions.
8. Never fill the cylinder beyond 80% full. A fire causing death or serious injury may occur.
9. The cylinder valve must include a safety relief device having direct communication with the vapor space of the cylinder.

HANDLING

1. Government regulations prohibit shipping full LP gas cylinders. You must take your new cylinder to a LP gas dealer for filling.
2. A filled LP gas cylinder is under very high pressure. Always handle carefully and transport in the upright position. Protect the valve from accidental damage.
3. Do not tip the LP gas cylinder while connecting it to the regulator. Fasten the cylinder securely during transport, use and storage.
4. If the cylinder is tipped after it is connected to the regulator, shut off the gas, disconnect the regulator and have it checked before using it again.

STORAGE

1. Store the LP gas cylinder outdoors in a well-ventilated place.
2. Do not store the LP gas cylinder in direct sunlight, near a source of heat or combustion.
3. If you intend to store the grill indoors, disconnect and remove the LP gas cylinder first. Disconnected cylinders must have a dust cap installed and must not be stored in a building, garage or any enclosed area.
4. Keep out of the reach of children.
5. When the LP gas cylinder is connected to the gas grill, the gas grill and LP gas cylinder must be stored outside in a well-ventilated place.

OPERATION

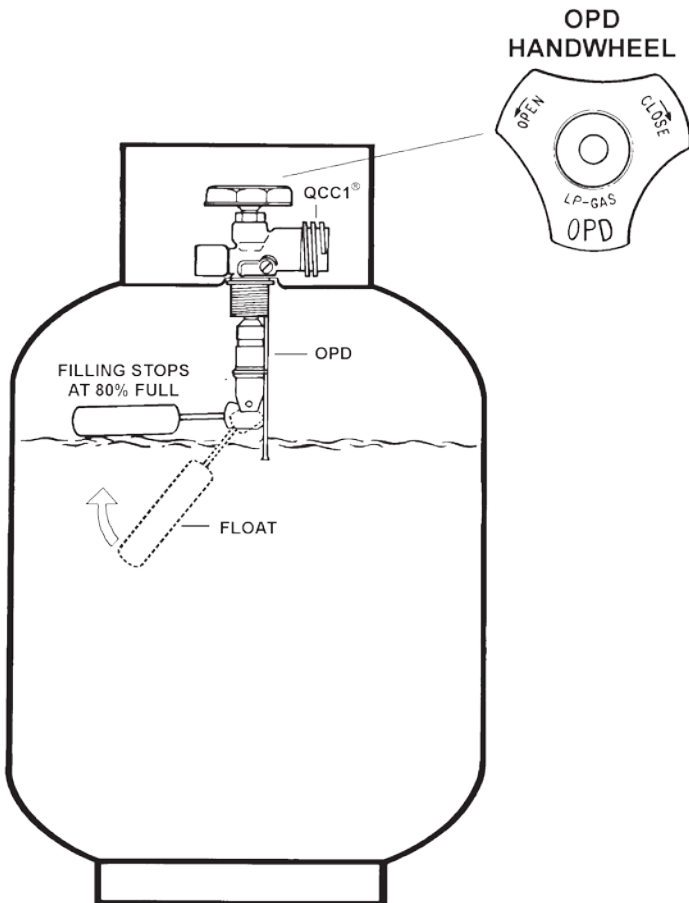
1. Never connect your gas grill to an LP gas cylinder without the regulator provided, and **NEVER TO AN UNREGULATED LP GAS SUPPLY.** The regulator supplied with the barbecue must be used.
2. **Always** leak test the LP gas cylinder to regulator connection when connecting the LP gas cylinder to the appliance. See "Leak Testing." (page 5)
3. **Do not** operate appliance if the smell of LP gas is present. Extinguish all flame and determine source of LP gas leak before proceeding. **Do not** ignite the appliance until the LP gas leak has been found and sealed.
4. **Always** shut off LP gas cylinder valve when the appliance is not in use.

OVERFILL PREVENTION DEVICE

1. The standard for outdoor gas appliances, ANSI Z21.58/ CAN/CGA-1.6, requires that appliances be used with cylinders equipped with an Overfill Prevention Device (OPD).
2. The OPD is designed to reduce the potential for the overfilling of propane cylinders, thus reducing the possibility of relief valve discharges of raw propane. **The OPD causes a slower purge/fill operation.** Some consumers have been advised by filling stations that these cylinders are “defective.” **This is not a defect.** Some propane filling stations may not be aware of this device and its effect on the purge/fill operation.
3. New OPDs coming onto the market have technology that allows for much greater BTU outputs which will decrease the amount of time it takes to purge a cylinder.

IDENTIFICATION

To identify these cylinders, the OPD hand wheel has been standardized to the shape shown.



1. All models are equipped with a hose and regulator with a QCC®-1 Quick Closing Coupling.
2. The QCC® coupling contains a magnetic Flow Limiting Device which will limit the flow of gas should there be a leak between the regulator and the appliance valve. This device will activate if the cylinder valve is opened while the appliance valves are open. **Be sure the appliance valves are off before the cylinder valve is opened to prevent accidental activation.**
3. The QCC® coupling incorporates a heat sensitive hand wheel that will cause the back check module in the QCC® cylinder valve to close when exposed to temperatures between 240° and 300°F. Should this occur, do not attempt to reconnect the hand wheel. Remove hose/regulator assembly and replace with a new one.
4. The pressure regulator is set at 11 inches WC (water column) and is for use with LP gas only. The hose and hose couplings comply with CGA Standard CAN 1.83. No modifications or substitutions should be attempted.
5. Protect the hose from dripping grease and **do not allow the hose to touch any hot surface**, including the base casting of the barbecue.
6. Inspect the seal in the QCC® cylinder valve when replacing the LP gas cylinder or once per year whichever is more frequent. Replace the seal if there is any indication of cracks, creases, or abrasion.
7. Inspect the hose before each use. If the hose is cracked, cut, abraded or damaged in any way, the appliance must not be operated.
8. For repair or replacement of the hose/regulator assembly, contact customer service.

CONNECTION

1. Be sure cylinder valve and appliance valves are “OFF.”
2. Place full LP gas cylinder in LP tank well and secure base as per assembly instructions.
3. Center the nipple in the cylinder valve and hold in place. Using other hand, turn the hand wheel clockwise until there is a positive stop. **Do not use tools. Hand tighten only. When making the connection, hold the regulator in a parallel with the cylinder valve, so as not to cross thread the connection.**
4. Leak test connections. See “Leak Testing.” (Page 5)
5. Refer to lighting instructions. **To avoid activating the Flow Limiting Device when lighting, open cylinder valve slowly with the appliance valves off.** If the Flow Limiting Device is accidentally activated, turn off cylinder valve and appliance valves, wait 10 seconds to allow the device to reset, open cylinder valve slowly, then open the appliance valve.

DISCONNECTION

Always close LP cylinder valve and remove coupling nut before moving cylinder from specified operation position.

LEAK TESTING

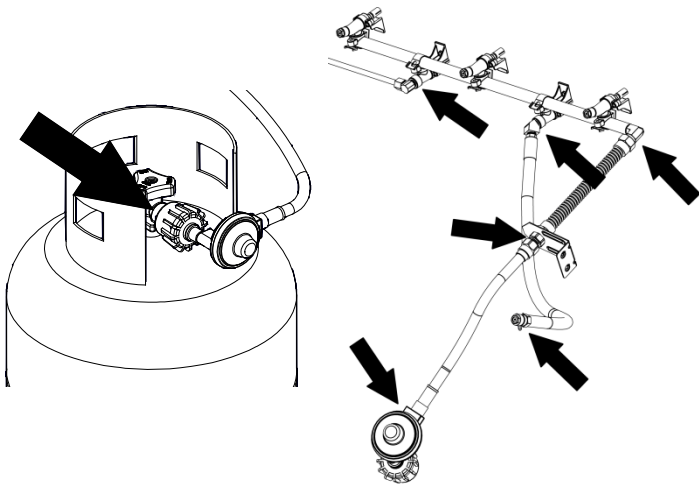
All factory-made connections have been rigorously tested for gas leaks. However, shipping and handling may have loosened a gas fitting.

AS A SAFETY PRECAUTION:

- Test all fittings for leaks before using your gas grill.
- Test the cylinder valve for leaks each time the cylinder is filled.
- Test for leaks every time you connect a gas fitting.
- Do not smoke at any time while testing.
- Never test for leaks with a lit match or open flame.
- Test for leaks outdoors.

TO TEST FOR LEAKS:

1. Extinguish any open flame or cigarettes in the area.
2. Be sure that cylinder valve and gas grill valves are "OFF."
3. Connect LP gas cylinder. See "Hose and Regulator". (Page 5)
4. Prepare a soap solution of one part water, one part liquid detergent.
5. With a full gas cylinder, open cylinder slowly.
6. Brush the soap solution on each connection.



7. A leak is identified by a flow of bubbles from the area of the leak.
8. If a leak is detected, close the gas cylinder "shut-off" valve, tighten the connection and retest.
9. If the leak persists, contact your gas grill dealer for assistance. Do not attempt to operate appliance if a leak is present.

If your gas grill is equipped with a side burner or rear burner:

1. Follow steps 1 - 5 above
2. Place fingertip over the opening in the orifice at the end of hose.
3. Turn "SIDE"/"REAR" control to "HIGH."
4. Brush soap solution on each connection between orifice and control valve.
5. Turn "SIDE"/"REAR" control to "OFF".

VENTURI TUBES

Always keep venturi tubes clean. Blockages in the venturi tubes caused by spiders, insects and nests can cause a flashback fire. In fact, although the gas grill may still light, the backed up gas can ignite and cause a fire around the venturi tubes at the control panel or the side burner.



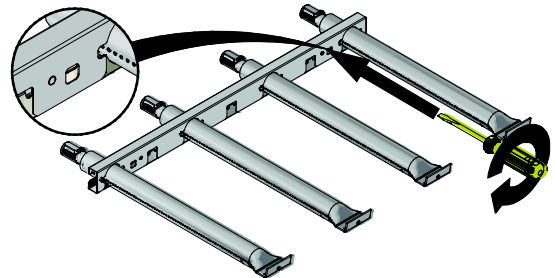
If a flashback fire occurs, turn off gas at the source immediately

Inspect and clean the venturi tubes (main burner, side burner, rear burner) if any of the following symptoms occur:

1. You smell gas.
2. Your gas grill does not reach temperature.
3. Your gas grill heats unevenly.
4. The burners make popping noises.

INSPECTING & CLEANING VENTURI TUBES

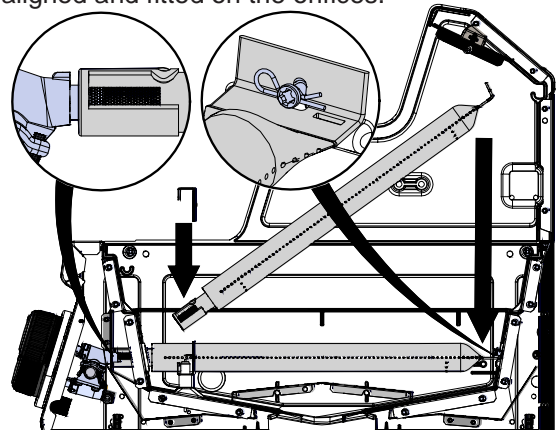
1. Turn off gas by closing the propane cylinder valve
2. When gas grill is cool, remove the burner fasteners and the top portion of the collector box. Proceed to lift the burners from the gas grill housing.



3. Clean the venturi tubes with a pipe cleaner or venturi cleaning tool (Accessory #77310 or #18270).



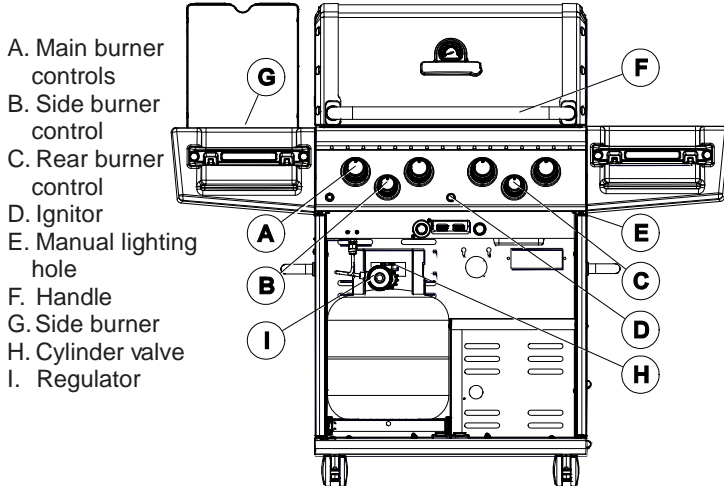
4. Lower the burner into position in the gas grill housing, making sure that the venturi tubes are correctly aligned and fitted on the orifices.



5. Secure burners with burner fasteners. Snap top portion of collector box back in place

LIGHTING

BASIC GAS GRILL COMPONENTS



LIGHTING INSTRUCTIONS

1. The appliance must be assembled as per the assembly instructions.
2. Ensure LP cylinder is full and properly connected to the regulator. See: "Hose and Regulator." (Page 4)
3. Ensure there are no gas leaks in the gas supply system. See: "Leak Testing." (Page 5)
4. Ensure that the venturi tubes are properly located over the gas valve orifices. See Venturi diagram. (Page 5)
5. Ensure that both Main Burner and Side Burner ignition wires are connected.
6. Carefully review all instructions on the information plate attached to the gas grill.
7. **WARNING: Always open lid before lighting and do not lean over gas grill while lighting.**
8. Set control knobs to "OFF" and turn on the gas supply.

LIGHTING THE MAIN BURNER:

- a. Open gas grill lid and leave open until lit.
- b. Check that the battery has been installed in the electronic ignition.
- c. Push and turn one main burner control knob to "HIGH."
- d. Push and hold down the ignitor button or use match to light.
- e. Burner should ignite within 5 seconds; turn off gas source immediately if ignition does not occur in this timeframe. To light burner with a match proceed below to step f.
- f. Insert lit match through lighting hole located at the bottom right of the cookbox.
- g. Push and turn right main burner control knob to "HIGH."
- h. Burner should ignite within 5 seconds.
- i. After the first burner is lit, push and turn the adjacent main burner control knob to "HIGH" then repeat for other burners; these burners should light automatically without the ignitor.

Note: In windy conditions, ignite each burner individually. Use the match holder to lower a lit match to light each burner.

LIGHTING THE SIDE BURNER:

- a. Push and turn side burner control knob to "HIGH."
- b. Push and hold the ignitor button.
- c. Burner should ignite within 5 seconds. **To light burner with a match** proceed below to step d.
- d. Apply lit match to burner ports.
- e. Push in the side burner control knob and turn to "HIGH."
- f. Burner should ignite within 5 seconds.

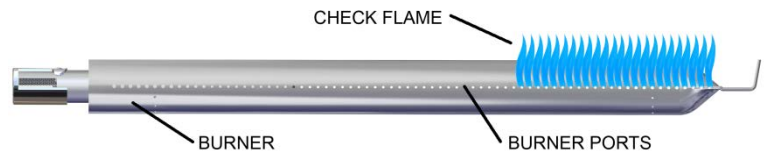
Note: Pots on the side burner must not exceed 9" (23 cm) in diameter or 15 lbs. (7 kg) in weight.

LIGHTING THE REAR ROTISSERIE BURNER:

Warning: do not operate the main burner simultaneously with the rear burner.

- b. **REMOVE THE WARMING RACK.**
- c. Push and turn rear burner control knob to "HIGH."
- d. Push and hold the ignitor button.
- e. Burner should ignite within 5 seconds. To light burner with a match proceed below to step f.
- f. Apply lit match to burner ports.
- g. Push in the rear burner control knob and turn to "HIGH."
- h. Burner should ignite within 5 seconds.

CAUTION: Check your gas grill after lighting. All burner ports should show a 2.5cm / 1" flame on "HIGH."



If any of the following symptoms occur there is probably a blockage in the venturi tubes. Shut off gas at once and clean the venturi tubes. See "Venturi Tubes." (Page 5)

1. You smell gas.
2. A flashback fire occurs.
3. Your gas grill heats unevenly.
4. The burners make popping noises.

IF BURNER DOES NOT IGNITE:

1. Push and turn control knob to "OFF." Wait 5 minutes then try again with control knob set at "MEDIUM."
2. If any burner will not light, see "Troubleshooting" on page 11. If problem persists, do not attempt to operate the appliance; contact OMC, your dealer or an approved service center.

SHUTDOWN:

1. Turn off cylinder valve.
2. Turn control knobs to "OFF."

OPERATION

Burn-off. Before cooking on your gas barbecue for the first time, burn off the barbecue to rid it of any odours or foreign matter as follows:

Remove cooking grids and warming rack and wash in mild soap and water. Ignite the burner. Close the lid and operate the barbecue for **20 minutes** with the control knobs set at "**MEDIUM/HIGH**". Turn the gas off at the source. Turn the control knobs to "Off". Let the appliance cool down, replace the grids. You are now ready to use the appliance.

Preheating. When grilling, preheat the barbecue on Medium/High with the lid closed for ten minutes. Reduce heat as appropriate for what you are grilling. Scrub grids with a wire grill brush and brush or spray the grids with vegetable or olive oil to prevent food from sticking.

Lid Position. The position of the lid during cooking is a matter of personal preference, but the barbecue cooks faster, uses less gas, and controls the temperature best with the lid closed. A closed lid also imparts a smokier flavor to meat cooked directly on the grid, and is essential for smoke and convection cooking.

Vapourization Systems. Your gas grill is designed for use with the Flav-R-Wave™ vapourization system (included). Do not use lava rock, ceramic briquets or any other vapourization system other than the one that came with the barbecue.

COOKING TEMPERATURES

High Setting will produce temperatures at the cooking grid of approximately 600 - 650°F (320 - 340° C). Use this setting only for fast warm-up and for burning food residue from the cooking grids after the cookout is over. This setting is also ideal for quickly searing steaks before reducing temperature. Rarely, if ever, do you use the HIGH setting for extended cooking.

Medium/High Setting will produce temperatures at the cooking grid of approximately 550°F (290 ° C). Use this setting for warm-up and for grilling steaks and chops,

Medium Setting will produce temperatures inside the barbecue of approximately 450° F (230°C) with the lid down. Use this setting for most grilling of chicken, burgers, vegetables and for roasting, and baking.

Low Setting will produce temperatures inside the barbecue of approximately 310- 350° F (155-175° C). Use this setting for all smoke cooking, large cuts of meat, delicate fish, and for dough and pastry such as pizza and quesadillas.

These temperatures are approximate only and vary with the outside temperature and the amount of wind present.

COOKING TECHNIQUES

DIRECT GRILLING

The direct grilling method involves cooking the food on grids directly over the flame. Direct grilling is the most popular method for most single serving items such as steaks, chops, fish, burgers, kebabs and vegetables.

1. Prepare food in advance to avoid delay and timing problems. If using marinade or spices, they should be applied before placing meat on the cooking grid. If basting with sauces, they should be applied the last 2-4 minutes of grilling to avoid burning.
2. Organize the area around the barbecue to include forks, tongs, oven mitts, sauces and seasonings, to allow you to stay in the vicinity of the barbecue while cooking.
3. Bring meat to room temperature just prior to grilling. Trim excess fat from meat to minimize the "flare-ups" that are caused by dripping grease.
4. Pre-heat the barbecue to the desired temperature with the cover closed.
5. Coat the grids with vegetable or olive oil to prevent food from sticking to the grids.
6. Hold the salt when cooking meats on the barbecue. The meat will stay juicier if the salt is added after cooking.
7. To prevent steaks from "drying out", use tongs rather than a fork and start on "MEDIUM/HIGH" to sear the meat and seal the juices in. Reduce the heat and extend cooking times when grilling thicker cuts of meat.
8. Learn to test when the meat is done by time and feel. The meat firms up as it cooks. When the meat is soft it is rare. When it is firm, it is well done.
9. Follow the perfect steak grilling guide for most meat, fish, poultry and vegetables.

The Perfect Steak Grilling Guide for Steaks and Chops

Place steak on angle on hot grids. Flip the steak as shown below. Turn and flip the steak again. Finally, flip the steak again.

2 min. 2 min. 2 min. 2 min.

45° 45°

A B C D

Meat Thickness	Heat Setting	Time Per Side				Total Time
1 1/2"	1"	A	B	C	D	
	Rare	High	1 3/4	1 3/4	1 3/4	7 minutes
Rare	Med/Rare	Med/High	2	2	2	8 minutes
Med/Rare	Medium	Med/High	2 1/2	2 1/2	2 1/2	10 minutes
Medium	Well	Medium	3	3	3	12 minutes
Well		Medium	3 1/2	3 1/2	3 1/2	14 minutes

COOKING TECHNIQUES

DIRECT GRILLING GUIDE

	1" THICK	HEAT SETTING	TIME PER SIDE	TOTAL MINUTES
CHICKEN	MED / WELL	MED / LOW	4 / 4 / 4 / 4	16
CHICKEN WINGS	MED / WELL	MED / LOW	5 / 5 / 5 / 5	20
HAMBURGER	MEDIUM	MED / LOW	3 / 3 / 3 / 3	12
HAMBURGERS 3/4" FROZEN	MEDIUM	MED / LOW	3 / 3 / 3 / 3	12
FISH FILLET	MEDIUM	MEDIUM	2 / 2 / 2 / 2	8 - 10
LOBSTER TAILS SPLIT	MEDIUM	MEDIUM	4 / 4 / 4 / 4	16 - 20
USE SAME TECHNIQUE AS THE PERFECT STEAK GRILLING GUIDE (PAGE 7).				

INDIRECT CONVECTION COOKING

This method is ideal for cooking large cuts of meat such as roasts or poultry. The food is cooked by hot air circulating around it.

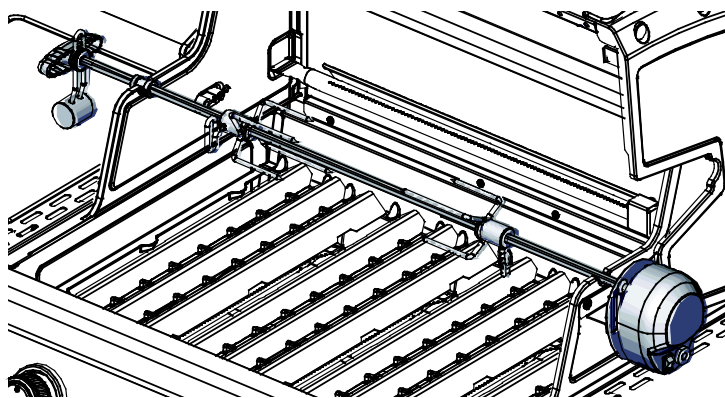
- For most applications of convection cooking with and without a rotisserie, a drip pan is recommended to catch the drippings. Place drip pan on top of the Flav-R-Wave, beneath center of food. Put half to one inch of water in the drip pan. Fruit juice, wine or marinade may also be added to enhance the flavor. Do not let the drip pan run dry.
- Convection cooking without a rotisserie is best with the lid closed and the heat reduced. All burners can be set to low or the outside burners can be set to medium and the middle burner(s) can be turned off. Turning the center burner off will prevent juices in the drip pan from burning.
- Prior to placing the meat on the gas grill, baste the meat with vegetable oil. This will enhance browning on the outside of the meat.
- When cooking without a drip pan, close attention must be paid to avoid the risk of a grease fire and is not recommended.
- Turn gas grill off and allow it to cool before removing drip pan. The fat drippings are highly flammable and must be handled carefully to avoid injury.
- For convection cooking roasts and poultry without a rotisserie, put meat in a roasting rack directly on grids.

INDIRECT CONVECTION AND ROTISSERIE COOKING GUIDE

BEEF ROAST	3 - 6 Lb.	MED / LOW	2 - 4 HRS
BEEF ROAST	6 - 10 Lb.	MED / LOW	3 - 5 HRS
PORK ROAST	2 - 5 Lb.	MED / LOW	2 - 4 HRS
PORK ROAST	6 - 10 Lb.	MED / LOW	3 - 5 HRS
TURKEY OR CHICKEN	2 - 5 Lb.	MED / LOW	2 - 4 HRS
TURKEY OR CHICKEN	5 - 10 Lb.	MED / LOW	3 - 5 HRS
WHEN USING ROTISSERIE BURNER, SET HEAT AT MED / HIGH			

ROTISSERIE COOKING

Follow the steps for Indirect Convection Cooking. (See left)



- The rotisserie can accommodate up to 7 kg (15lb) of meat with the limiting factor of rotating clearance. For best results the meat should be centered on the center line of spit to eliminate an out-of-balance condition.
- The rotisserie can be used with the cooking grids in place if space allows.
- Fasten the meat securely on the spit prior to placing it on the gas grill. For poultry, tie the wings and legs in tightly.

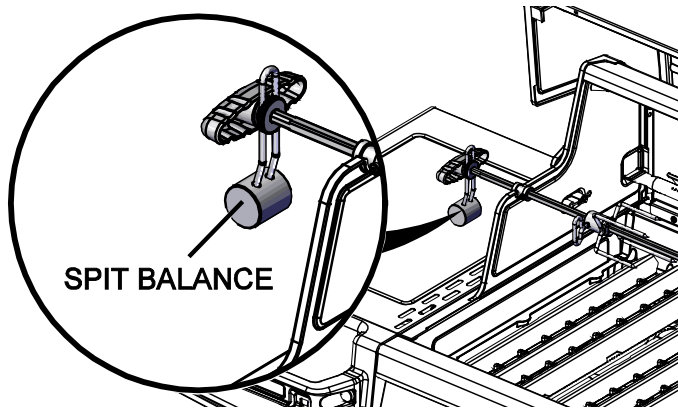
REAR BURNER ROTISSERIE

- Certain models feature a rear burner for rotisserie cooking. The rear burner rotisserie method is the ultimate for cooking roasts and poultry. With the heat source located behind the food, there is no chance of a flare up caused by fat drippings. A dish or drip pan placed below the spit will collect the juices for basting or for preparing a sauce.
- The spring loaded rear burner may be easily removed when not in use.
- To operate your rear burner, see "Lighting the Rear Burner." (Page 6)

MEAT TEMPERATURE GUIDE

	RARE	MED	WELL
BEEF / LAMB / VEAL	130°F / 55°C	146°F / 63°C	160°F / 70°C
PORK		150°F / 65°C	170°F / 77°C
POULTRY			170°F / 77°C
HAMBURGER			160°F / 70°C
FOR BEST RESULTS, USE A MEAT THERMOMETER			

COOKING TECHNIQUES

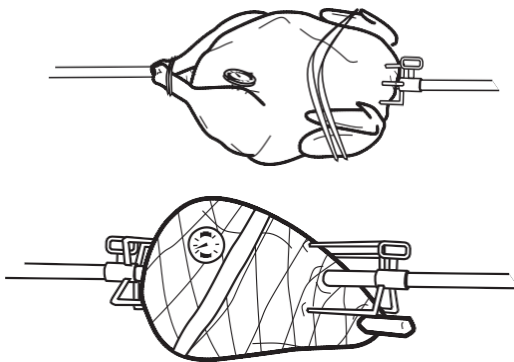


SPIT BALANCE

1. Loosen the rod handle to allow the balance to turn freely.
2. Set the rotisserie rod in the slots of the gas grill casting. Let the heaviest side of the meat rotate to the bottom.
3. Adjust the balance to the top of the rod, opposite the heaviest side of the meat.
4. Tighten the rod handle. Periodically, check to see if the meat turns smoothly while cooking. Adjust the balancer as necessary. **CAUTION: Use oven mitt when adjusting balancer.**

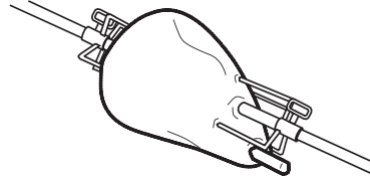
HOW TO USE A PROBE THERMOMETER

1. The accurate way to determine when a large piece of meat is done is to use a probe thermometer. Insert the thermometer at an angle so the sturdy pointed metal tip rests in the center of the thickest part of the meat. **Be careful that it doesn't touch the spit or the bone, and that the point is not resting in fat (you will notice much less resistance when probing in fat).**



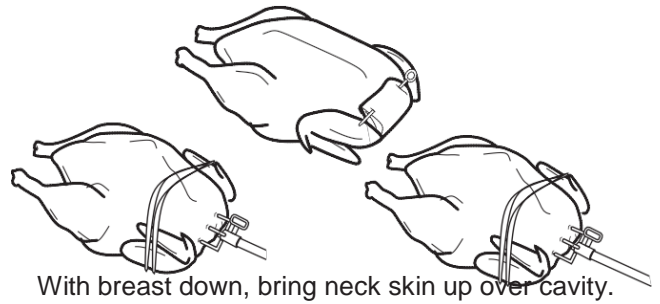
2. When the thermometer displays the desired temperature the meat is done. Add your sauces during the last few minutes of cooking time and let the meat stand about 15 minutes to firm up. Carve and serve.
- Poultry: insert the tip of the thermometer in the thickest part of the thigh close to the body.
 - Ham or roasts: insert the tip of the thermometer in the center of the heaviest section of the meat.

USING A SPIT – LEG OF LAMB



1. Have 3" of bone sawed from small end of leg.
2. Leave meat around bone intact to form a flap.
3. Put a spit fork on rod.
4. Fold flap up and run rod through flap and leg.
5. Put second fork on rod and insert forks in each end of leg. Test for balance. Tighten screws.

USING A SPIT – POULTRY



1. With breast down, bring neck skin up over cavity.
2. Turn under edges of skin; skewer to back skin.
3. Loop twine around skewer and tie.
4. Turn breast side up; tie or skewer wings to body.
5. Put a spit fork on rod. Insert rod in neck skin parallel to backbone and exit just above tail.
6. Put second fork on rod and insert forks in breast and tail. Test for balance. Tighten screws.
7. Tie tail to rod with twine. Cross legs; tie to tail.

THREE CHICKENS ON A SPIT



1. Tie or skewer wings to body.
2. Put a spit fork on rod. Place chickens on rod as demonstrated in the above diagram.
3. Loop twine around tails and legs; tie to rod.
4. Put second fork on rod and insert forks in chicken. Tighten screws.

MAINTENANCE

REGULAR MAINTENANCE

To ensure optimal performance and safety, the following components should be inspected and cleaned as required before use of your gas grill.

COOKING GRIDS - CAST IRON, CAST STAINLESS & HEAVY ROD STAINLESS

BROIL KING® Deep V cast iron and cast stainless cooking grids provide unsurpassed heat retention and grilling performance. BROIL KING® Heavy Rod stainless grids provide maximum durability and good heat retention and good grilling performance. BROIL KING® cast iron grids are coated with a porcelain enamel finish to protect the grids and reduce the tendency of food sticking to grids. Regular use and care improves performance and longevity of the grids.

For optimum performance:

- Before first use and after long periods of storage, wash grids using a light detergent and water and then rinse and dry with paper towel; never air dry grids or use a dishwasher
- Immediately after washing, season cooking grids by coating grids with an organic cold pressed cooking oil with a high smoke point, light the grill and operate on Med/Low for 30 minutes. Recommended cooking oils:
 - Avocado Oil – smoke point (260C/500F)
 - Rice Bran Oil – smoke point (255C/490F)
 - Canola Oil – smoke point (204C/400F)
- Before and after each use, brush grids with a good quality stainless steel bristle brush (Item #'s 65225, 64014, 64034) and lightly coat with a high smoke point cooking oil. This will continue the seasoning process
- **Use medium heat settings to preheat and grill to avoid burning off the protective seasoned coating**
- Avoid applying sugar based marinades or salt to meat before grilling, apply sugar based marinades at end of grilling and salt after grilling
- Use oil based marinades, avoid water based marinades
- Lightly coat food with cooking oil of your choice before grilling
- Turn and rotate your grids periodically
- Ensure the surface of the grid is always coated with a light layer of oil. This helps prevent rust and deterioration and improves the grids non-stick performance
- If rust does occur, Burn-Off the grid, brush with a stainless steel bristle brush and re-season

During long periods of inactivity, grids should be **seasoned**, then stored in a dry place. The grids may be wrapped in protective plastic food wrap. After periods of storage, Burn-Off grids, wash, dry with paper towel and re-season with high smoke point cooking oil.

Warning:

**If the grill is hot, use caution and oven mitts while handling the stainless steel bristle brush.
Inspect the grids carefully after brushing to ensure there are no broken bristles left on the grid.**

GREASE TRAY

The grease tray is in the pull out drawer located under the control panel. Clean regularly.

FLAV-R-WAVE™

The Flav-R-Wave™ is designed to generate smoke and vapor from the food drippings in order to provide that authentic barbecue flavor while protecting the burner. If residue accumulates on the Flav-R-Wave™, remove the cooking grids and scrape the residue off the Flav-R-Wave™ with the grid lifter. (Part # 60745)

GENERAL CLEANING

Perform a Burn-Off (see below).

When gas grill is cool, remove grids, scrape the Flav-R-Wave™ clean with grid lifter then remove the Flav-R-Wave™.

Clean the interior of the gas grill as necessary by scraping the sides and bottom of the cook box with the grid lifter and vacuum residue.

Rust is a natural oxidation process and may appear on internal stainless steel parts. Rust will not affect performance of your grill.

BURN-OFF

Ignite the burners as per “Lighting” (page 6).

Operate gas grill on HIGH with lid closed for 10 minutes maximum.

Turn the gas source off then turn control knobs to OFF.

ANNUAL MAINTENANCE

The following components should be inspected and cleaned at least once a year or after any period of storage over 30 days to ensure optimal performance, safety and efficiency.

BURNER

Remove burner and inspect for cracks and deterioration. Clean venturi tubes using a pipe cleaner or venturi brush to eliminate any blockages. See “Venturi Tubes.” (Page 5) While the burner is removed, remove the grease shields, clean the interior of cook box by scraping the sides and bottom of the cook box and vacuuming.

HOSE

Inspect and replace if necessary. For propane see “Hose and Regulator.” (Page 4)

EXTERIOR ALUMINUM COMPONENTS

If white oxidation spots appear, wash the outside of the aluminum cook box with a mild soap and water solution. Rinse the surfaces thoroughly then wipe them with a cloth dipped in cooking oil to restore the luster. For repair of paint scratches and scuffs, use a good quality HIGH temperature (600°F) spray paint for touch-up.

STAINLESS STEEL & PORCELAIN COMPONENTS

Wash with soap and water. Use stainless steel cleaner or “Bar Keepers Friend” to polish and remove stains or rust marks if they occur. Weathering and extreme heat can cause a stainless steel lid to turn a tan color. This is discoloration and is not considered a manufacturing defect.

RESIN COMPONENTS AND SIDE SHELVES

Wash with soap and water.

REPLACEMENT PARTS

If a problem is found with the regulator, hose, burner, or control valves, do not attempt repair. See your dealer, approved service center, or contact the factory for repairs or replacement parts. To ensure optimum performance, use only original BROIL KING® replacement parts.

LEAK TEST

When reconnecting a gas cylinder on propane models, be sure to check for leaks. See “Leak Testing.” (Page 5)

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
SMELL OF GAS	SHUT OFF LP CYLINDER VALVE AT ONCE. DO NOT USE THE APPLIANCE UNTIL LEAK IS SEALED.	
Leak detected at cylinder, regulator or other connection.	1. Regulator fitting loose. 2. Gas leak in hose/regulator or control valves.	1. Tighten fitting and "Leak Test." (page 5) 2. See authorized service center.
Flames Beneath Control Panel (Flashback Fire)	1. Venturi blocked.	1. Remove burner and clean venturi. See "Venturi Tubes" (page 5)
Flickering Burner Flame or Low Temperatures on HIGH Setting	1. Excess flow safety device has been activated in connection between cylinder and barbecue.	1. Turn LP cylinder valve off then turn all burners to OFF position. Disconnect the regulator from the cylinder. Wait two minutes. Re-attach regulator to the cylinder. Open the cylinder valve slowly. Wait one minute. Light grill as per "Lighting" (page 6)
Burner Not Lighting	1. Out of LP Gas. 2. Ignitor issue. 3. Excess flow safety device has been activated. 4. Regulator is not fully connected to the cylinder valve. 5. A leak in the system causing the excess flow device to activate. 6. Venturi blocked or misaligned with valve orifice. 7. Orifice(s) blocked. 8. Hose is twisted.	1. Refill LP Gas Cylinder. 2. Try manually lighting burner with a match. See "Lighting" (page 6). If burner lights successfully, it is an ignitor issue. See "Ignitor not Working" below 3. Follow "Flickering Flame or Low Temperatures on HIGH setting" solution above. 4. Tighten the regulator hand wheel. 5. Leak test connections to determine loose fitting. Tighten fitting. Leak test system. 6. Remove burner, clean venturi and realign with valve orifice. See page 5 for assistance. 7. Remove burner, clean orifices with a pin or fine wire. Do not drill orifices. 8. Straighten hose. Keep away from bottom casting.
Ignitor Not Working	1. Ignitor battery is dead 2. Ignitor wire(s) not connected 3. Electrode misaligned on burner 4. Ignitor malfunction	1. Replace battery 2. Ensure main burner and side burner electrode wires are all connected 3. Realign electrode and clear any surrounding debris from area 4. Use "Match Lighting" procedure. (Page 6)
Decreasing Heat, "Popping Sound"	1. Out of LP Gas. 2. Venturi blocked.	1. Refill LP Gas Cylinder. 2. Remove burner, clean venturi. See "Venturi Tubes" (Page 5) for assistance.
Hot spots on Cooking Surface	1. Venturi blocked 2. Debris buildup on Flav-R-Wave	1. Remove burner, clean venturi. See "Venturi Tubes" (page 5) for assistance. 2. Scrape off Flav-R-Wave and vacuum
"Flare-ups" or Grease Fires	1. Excessive grease buildup on vaporizer or in gas grill cook box 2. Excessive heat.	1. Thoroughly scrape off Flav-R-Wave and inside of cookbox then vacuum out debris 2. Turn burner controls to a lower setting
Regulator Humming Noise	1. Cylinder valve opened too quickly.	1. Open cylinder valve slowly.
Yellow Flame	1. Some yellow flame is normal. If it is excessive, the venturi may be blocked. 2. Burner ports blocked.	1. Remove burner, clean venturi. See "Venturi Tubes" (page 5) for assistance. 2. Remove burner & clean with soft bristle brush (e.g. toothbrush).
Inside of Lid Appears to be Peeling	1. This is a build-up of grease. The inside of lid is not painted and cannot peel.	1. Clean with stiff bristle brush or scraper.
Cooking Grids Rusting	1. Porcelain enamel has been chipped	1. See "Maintenance" (page 10) for help
Control panel or oven lights not working	1. Unit not connected to power. 2. Faulty transformer. 3. Loose or corroded connections. 4. Bulb blown	1. Connect GFI power cord to appliance. Plug to working power outlet. 2. Check transformer output is 12Vac. Replace if required. 3. Clean connections and ensure all connectors are pushed together firmly. 4. Replace bulbs.
If troubleshooting fails to solve any of these or any other issues, please visit www.omcbbq.com for more information including troubleshooting videos, tricks and tips or call customer service at 1-800-265-2150		

WARRANTY

The OMC Warranty is effective from date of purchase and is limited to the repair or replacement of parts at no charge which prove to be defective under normal domestic use.

In United States and Canada replacement is FOB Factory.

In all other countries replacement is FOB OMC Distributor (Consult your Dealer for name of OMC Distributor).

All other costs are the responsibility of the owner.

This warranty is extended only to the original purchaser as indicated on the warranty registration and applies only to products sold at retail and only when used exclusively by the purchaser in country where purchased. (Different types of gas used in different countries require appropriate valves, orifices and regulators.)

WHAT IS COVERED

	IMPERIAL / REGAL / SOVEREIGN	BARON / SIGNET / MONARCH	CROWN	ROYAL / GEM
STAINLESS STEEL LID COMPONENTS	Lifetime	Lifetime		
PORCELAIN STEEL LID COMPONENTS	Lifetime	Lifetime	2 Years	
CAST ALUMINUM COOK BOX COMPONENTS	Lifetime	Lifetime	Lifetime	Lifetime
SS COOK BOX	Lifetime			
PORCELAIN STEEL COOK BOX		10 Years	2 Years	
PORCELAIN STEEL GRIDS				2 Years
CAST IRON GRIDS	2 Years	2 Years	2 Years	
SS GRIDS	5 Years	5 Years		2 Years
SS FLAV-R-WAVE / HEAT TENT	5 Years	3 Years	3 Years	2 Years
TUBE BURNERS	10 Years	10 Years	5 Years	5 Years
REAR BURNER	10 Years	10 Years		3 Years
SIDE BURNER	2 Years	2 Years		
SS CART COMPONENTS	5 Years	5 Years	2 Years	
REMAINING PARTS AND PAINT	2 Years	2 Years	2 Years	2 Years

WHAT IS NOT COVERED

Any failures or operating difficulties due to accident, abuse, misuse, alteration, misapplication, vandalism, improper installation or improper maintenance or service, or failure to perform normal and routine maintenance, including but not limited to damage caused by insects within the burner tubes, as set out in the owner's manual.

Deterioration or damage due to severe weather conditions such as hail, hurricanes, earthquakes or tornadoes, discoloration due to exposure to chemicals either directly or in the atmosphere.

Shipping or transportation costs.

Removal or re-installation costs.

Labor costs for installation and repair.

Cost of service calls.

Liability for indirect, or consequential damages.

Gas grills deemed to be used as a communal amenity or gas grills not directly used and maintained by the purchaser

REPLACEMENT PARTS

"Genuine OMC Gas Grill Parts" must always be used for replacement. Use of any other parts will automatically nullify the above warranty.

BURNERS

The life of OMC burners (made of stainless steel) depends almost entirely on proper use, cleaning and maintenance. This warranty does not cover failure due to improper use and maintenance. For proper burner maintenance instructions see page 10.

PORCELAIN-COATED COOKING GRIDS

All OMC cast iron cooking grids are coated with a durable porcelain enamel to assist in cleaning and reduce the tendency of food sticking to the grid. Porcelain is essentially a glass coating. Some chipping may occur if mishandled. This will not affect the use or performance of the grids. The grids are not warranted against chipping or rusting due to mishandling. Consult "Maintenance" (page 10) for proper cooking grid care and cleaning instructions.

VAPORIZATION SYSTEMS

OMC Gas Grills are designed for use with Flav-R-Wave™ vaporization systems. Use of any other product will nullify the warranty.

FLAV-R-WAVE™

The Flav-R-Wave™ is warranted against defects in materials or rust through for a period of 3 years on Monarch, Signet, Baron, 5 years on Sovereign, Regal and Imperial and 2 years on all other models from date of purchase. Surface rust will not affect the performance of the Flav-R-Wave™ and is not covered by the warranty. See "Maintenance" (page 10) for proper Flav-R-Wave care instructions.

FREIGHT

Courtesy shipping is provided for warranty orders during the three (3) months after the original date of purchase. After this period, a freight charge will be applied to all warranty orders.

REGISTER YOUR GRILL

You can register your grill's warranty online at www.omcbbq.com or by calling 1-800-265-2150.

WARRANTY CLAIMS

All warranty is handled directly by OMC. Parts must be returned to OMC Warranty Department, shipping charges prepaid, accompanied by Model Number, Serial Number, and if your grill is not registered, proof of purchase (copy of sales slip or invoice). If inspection confirms the defect, OMC will repair or replace such part in accordance with the terms of the warranty.

On receipt of letter or fax (not by phone) OMC may at its option not require part or parts to be returned.

NON AMERICAN/CANADIAN RESIDENTS

The above warranty is administered by the OMC distributor in your country. Contact your dealer for the name of your OMC distributor.