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Vermont Castings VCO620A Owner's Manual

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VERMONT *Castings*[™]

Assembly and Owner's Manual

Portable Gas Grill

- VC0620P** (6000 Series)
- VC0680P** (8000 Series)
- VC0680N** (8000 Series)



ASSEMBLER / INSTALLER:

Leave these instructions with the consumer.

CONSUMER / USER:

Read all of these instructions and keep them in a safe place for future reference.

FOR YOUR SAFETY

If you smell gas:

- 1 Shut off gas to the appliance.
- 2 Extinguish any open flame.
- 3 Open lid.
- 4 If odor continues, immediately call your gas supplier or fire department.

FOR YOUR SAFETY

- 1 Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- 2 An unconnected liquid propane cylinder should not be stored in the vicinity of this or any other appliance.

FOR YOUR SAFETY: Never leave a grill unattended when in use.

Statement of Commitment

Congratulations and thank you for your purchase of your new Vermont Castings grill. We are pleased that you have recognized the value of the design, function, and quality of components used in this product. We believe it is among the finest on the market.

We are committed to producing quality products that your family will enjoy for years to come. If for any reason we have failed to meet or exceed your expectations, please allow us the opportunity to make it right by calling us toll-free between the hours of 8:00 a.m. and 4:30 p.m.

United States: 1-800-944-8982
Canada: 1-800-668-5323

(It is recommended to avoid calling on Mondays,
when wait times may be prolonged.)



410 Admiral Boulevard
Mississauga, Ontario Canada L5T 2N6
- A CFM Company -

For more information about our growing family
of barbecue grills, fireplaces, and outdoor
products, please visit our website at:

www.vermontcastings.com

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Portable Gas Grill (VC0620P, VC0680P, VC0680N) (6000, 8000 Series)

Installation Chapter 1

Necessary Information to Safely Use a Gas Grill

The gas fuel used by this product is highly flammable and must be used in a responsible and cautious manner.

It is your responsibility to assemble, operate, and maintain your gas barbecue grill properly.



If these instructions are ignored, there is a possibility of a hazardous fire or explosion which could result in property damage, physical injury or death.

Choosing a Safe Location for a Gas Barbecue Grill

1. The gas barbecue grill may only be used for cooking out-of-doors.

· Do not operate this barbecue in garages, breeze ways, sheds or any enclosed area.

· Operating this or any gas-fired appliance in an enclosed area can produce a build-up of carbon-monoxide, which could result in injury or death.

2. Installation must conform with local codes or, in the absence of local codes, with either the National Fuel Gas Code, ANSI Z223.1, NFPA 45 (USA), or CAN/CGA-B 149.2, Propane Installation Code (Canada) and CAN/CGA-B 149.1 Natural Gas Installation Code.

To check local codes, contact your local gas dealer or gas company listed in the Yellow Pages for recommended installation procedures and regulations.

3. This appliance is not intended to be installed in or on a recreational vehicle and/or boat.

4. Keep the barbecue grill at least 24 inches (61 cm) away from any combustible construction.

· Do not use a grill under a ceiling or cover where the heat or flame could cause damage.

· Choose a level surface where the grill is not facing directly into the wind.

· Avoid moving the grill during use.

5. The grill area must be clear and free from combustible materials, gasoline, and any other flammable liquids or vapors.

· Do not use lighter fluid or charcoal briquettes in a gas grill. The flow of combustion and ventilation air is not to be obstructed. The ventilation openings of the cylinder enclosure must be kept free and clear from other debris. Do not store grill covers or other items in the cylinder area.



6. Do Not store a spare L.P. gas cylinder under or near this appliance.

Do not store an L.P. cylinder in a building, garage or any other enclosed area. Instead, store the cylinder outdoors in a well ventilated area, away from people and out of the reach of children.

7. NOT FOR USE BY CHILDREN.

- Place your barbecue grill in a location away from children and pets.
- Do not leave grill unattended when in use.

8. The outside of the barbecue grill will become hot during use.

- To avoid burns, do not touch any hot grill surface. If necessary, use a protective glove when operating control knobs, tank shut-off valve, or lid handle.
- Do not place combustible material, such as cloth or plastic, on grill surface during use.
- Do not lean on side tables or place more than 15 pounds of weight on a side table.

9. Make sure that the drip pan is in place under the grill bottom.

- Hot drippings from cooking food could damage the fuel supply system.

IMPORTANT: NEVER leave a grill unattended when in use.

Portable L.P. Gas Barbecue Grills

WARNING: Do not use natural gas in an appliance designed for L.P. gas. Use only liquid propane (L.P.) gas in an appliance designed for L.P. gas.

L.P. Gas

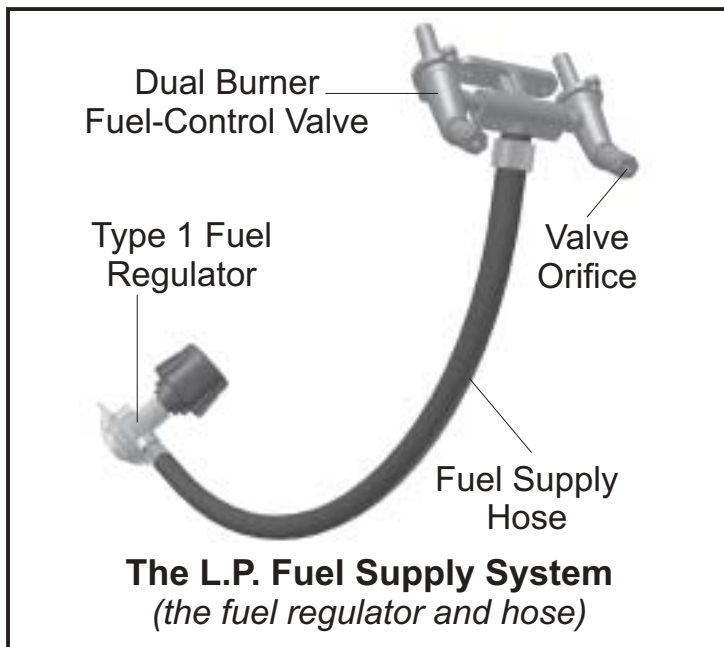
Liquid Propane (abbreviated L.P.) gas is stored under high pressure inside a cylinder and will vaporize when released. It is important that there are no leaky connections on the grill fuel supply system. Refer to the Leak Testing section of this manual.

The L.P. Fuel Supply System

An L.P. gas grill requires a fuel delivery system made up of a L.P. gas supply cylinder, a fuel regulator with hose and a gas-control valve.



The L.P. Fuel Supply System



FUEL REGULATOR AND HOSE

The fuel regulator supplied is equipped with a Type 1 coupling nut. Do not attempt to connect to any other L.P. cylinder not equipped with a mating Type 1 cylinder valve. This grill is not to be used with any other cylinder connection device.

The fuel regulator and hose assembly with the Type 1 fitting supplied must be used with the appliance. Do not use a hose and regulator assembly other than the one supplied with the grill or a manufacturer's replacement fuel pressure regulator assembly.

The Type 1 connection system has the following features:

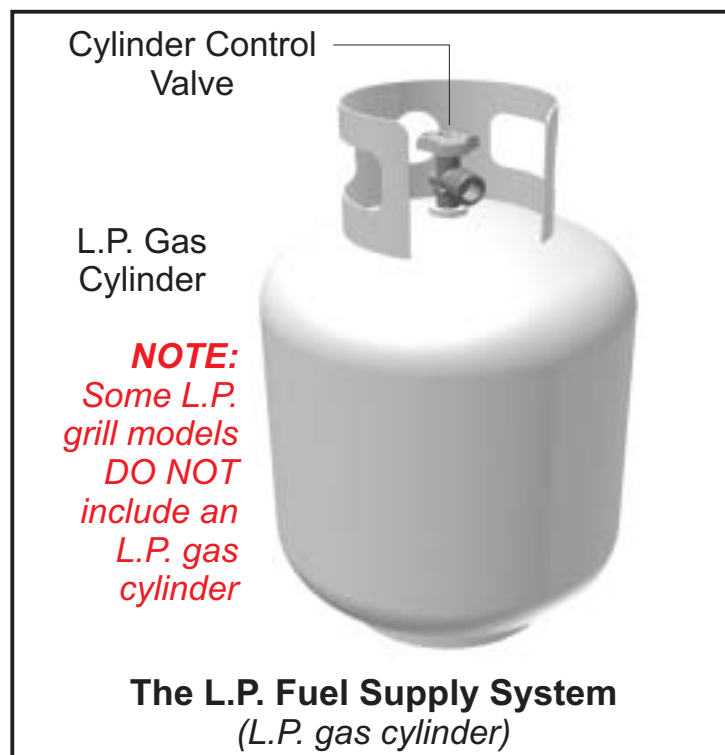
1. The system will not allow gas to flow until a positive connection has been made.
2. The system has a thermal element that will shut off the flow of gas between 240°F and 300°F.
3. The system has a flow-limiting device which, when activated, will limit the flow of gas to 10 cubic feet per hour.

4. The pressure regulator and hose assembly provided is factory set at an outlet pressure of 11 inches water column (.4 lb. per sq. Inch).

WARNING: Any attempt to adjust the regulator is dangerous and could create a situation causing personal injury or property damage. Consult your L.P. gas dealer if you think the regulator is not working properly.

L.P. GAS SUPPLY CYLINDER

L.P. Cylinders can be obtained at the store where you purchased your grill or from an authorized L.P. gas dealer.



L.P. GAS CYLINDER SPECIFICATIONS

Any L.P. gas-supply cylinder used with this grill must be approximately 12 inches diameter and 18 inches high. The maximum fuel capacity must be 20 pounds of propane. Full-cylinder weight should be approximately 38 pounds (43.7 lbs. Nominal water capacity).

The L.P. cylinder must have a shut-off valve

terminating in a Type 1 L.P. gas-cylinder-valve outlet. A Type 1 compatible cylinder with a Type 1 cylinder valve has a positive seating connection that does not permit gas flow until a positive seal has been obtained.

The cylinder must be arranged for vapor withdrawal. It must also include a collar to protect the cylinder valve. A safety-relief device having direct communication with the vapor space of cylinder must be provided. This will expel high-pressure gas if the cylinder is overfilled or overheated.

All L.P. gas cylinders used with this appliance shall be constructed and marked in accordance with the specifications for L.P. gas cylinders of the U.S. Department of Transportation (DOT) or the National Standard of Canada, CAN/CSA-B339, Cylinders, Spheres and Tubes for Transportation of Dangerous Goods and Commission, as applicable; and shall be provided with a listed overfilling-prevention device. Read labels on the L.P. gas-supply cylinder.

DANGER: Do not insert any foreign objects into the valve outlet. You may damage the back check, A damaged back check can cause a leak, which could result in explosion, fire, severe personal injury or death.

Allow only a qualified L.P. gas dealer to fill or repair an L.P. gas-supply cylinder.

Inform the gas dealer if it is a new or used cylinder to be filled. Caution the gas dealer not to overfill the fuel cylinder.

After filling, have the gas dealer check for leaks and that the relief valve remains free to function.

Have the gas dealer weigh the cylinder after filling to ensure that the cylinder is not overfilled.

DANGER:

a.) Do not store a spare L.P. gas cylinder under or near this appliance.

b.) Never fill the gas cylinder beyond 80

percent full.

c.) If the information in (a.) and (b.) Is not followed exactly, a fire causing serious injury or death may occur.

TRANSPORTING A FULL CYLINDER

WARNING: Handle a full cylinder with care. Gas is under high pressure.

You should transport only one cylinder at a time. Transport the cylinder in an upright and secure manner with the control valve turned off and the POL plug in place.

Do not transport a cylinder in the passenger compartment of a vehicle.

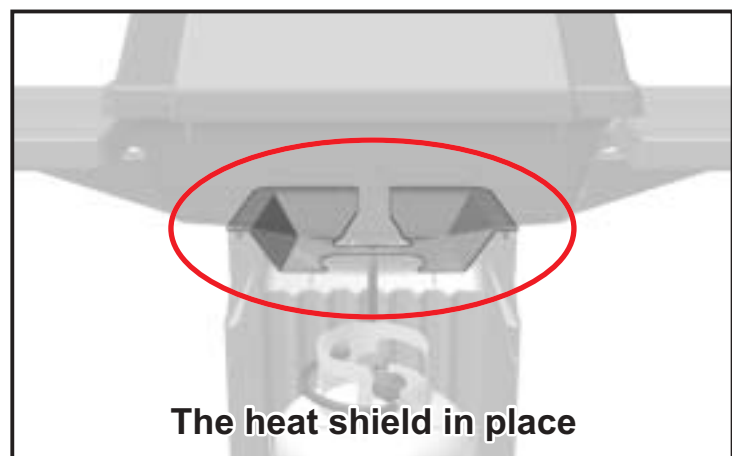
Do not leave cylinder in direct sunlight or in a high-heat area such as a closed car trunk. High-heat areas could cause the relief valve to vent gas.

Use a cylinder cap on the cylinder-valve outlet during transport and when the cylinder is not connected to the grill. Keep cylinder valve closed when not in use.

HEAT SHIELD

WARNING: The heat shield must be installed between the grill bottom and the pillar.

Operating this grill without the heat shield attached to the grill bottom would result in a hazardous situation which could cause serious property damage and possible physical injury.



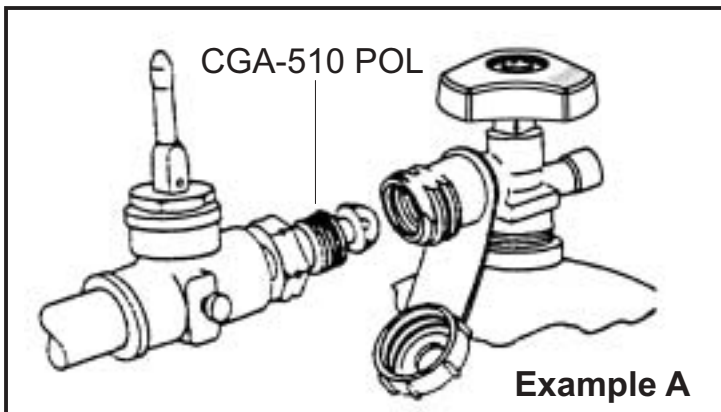
Take These Instructions to the L.P. Gas Dealer

When using a cylinder exchange, be sure the exchanged cylinder is a Type 1 cylinder; a 510 POL cylinder will not fit a Type 1 regulator.

FILLING AND PURGING TYPE 1 L.P. GAS CYLINDERS

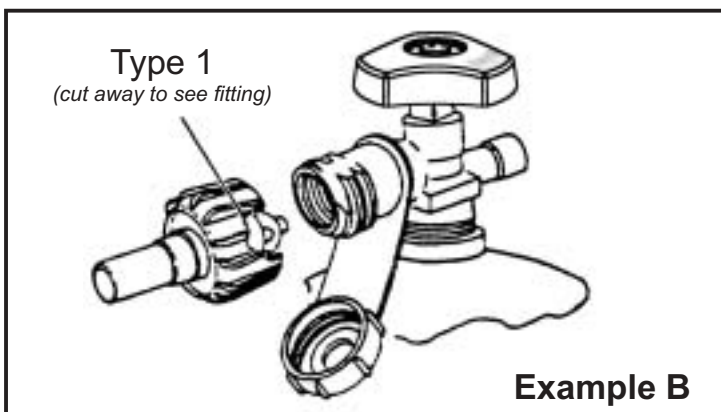
DANGER: Purging and filling of L.P. gas cylinders must be performed by personnel who have been thoroughly trained in accepted L.P. gas industry procedures. Failure to follow this instruction may result in explosion, fire, severe personal injury or death.

IMPORTANT: Purge new cylinders before filling. This tank is easily filled with a standard CGA 510 POL filling connection.



Filling a Type 1 Cylinder Valve

*Example A: shows a CGA-510 POL fitting.
Example B: shows using a Type 1 POL fitting.*



The L.P. gas cylinder has a Type 1 cylinder valve with a back-check module in its outlet that will not permit gas to flow until an evacuation device is installed. To purge the L.P. gas cylinder, the back-check module must be opened with an evacuation device.

PURGING AND EVACUATION DEVICES FOR L.P. GAS CYLINDER WITH TYPE 1 CYLINDER VALVES

A. Hose-end valve with a bleed port: Purging can be accomplished using a hose-end valve containing a bleed port, which also allows for evacuation without the use of an adapter.

B. Hose-end valve without a bleed port: When a hose-end valve does not have a bleed port, a separate device must be used for evacuation.

C. Purging using a Type 1 connection: L.P. gas cylinder evacuation can be accomplished during each purging by using a Type 1 connection. The Type 1 valve outlet has 1-5/16" external ACME right-hand thread that will accept this connection.

CAUTION: After purging or filling an L.P. gas cylinder, do not insert a POL plug into the valve outlet. Insertion of this plug will prevent the back-check from closing. Use ONLY the provided cap and strap attached to the outlet. Close the cylinder valve knob before returning the cylinder to the customer.

For proper purging procedures in the USA, refer to: Safety Bulletin NPGA # 133, "Purging L.P. Gas Cylinders," and Safety Bulletin NPGA #130, "Recommended Procedures for Filling Cylinders."

DANGER: Do not fill an L.P. gas cylinder beyond 80% full. If this information is not followed exactly, a fire causing serious injury or death may occur.

Portable Gas Grill (VC0620P) (6000, 8000 Series)

Assembly Instructions Chapter 2

Tools needed to assemble grill:

- flat-head screwdriver
- phillips-head screwdriver
(For side burner equipped grills)
- 3/8" open-end wrench*
- 7/16" open-end wrench*

* A socket set or an adjustable wrench may be used in place of the open-end wrenches.



Note: You may notice during assembly that hardware bag "B" is used before hardware bag "A". The assembly procedure has been improved from the original sequence to make assembly easier. However, hardware packaging has not been changed.

Getting Started

1. Please follow the steps in the order that they are presented.
2. Assemble the grill where you plan to use it.
3. You may want to place an old towel or cloth at the assembly site to prevent nuts and bolts from becoming lost.
4. Have a friend help. An assistant can make the assembly easier by holding the parts in place while you fasten the nuts and bolts.
5. To be ready to barbecue immediately, have the L.P. gas cylinder filled by an authorized L.P. dealer or cylinder exchange center.

Unpacking the Grill Parts

1. Remove and set aside all inner boxes and parts from the master carton.
2. Remove and set aside all wrapping paper and additional packaging from the parts.
3. Do not destroy carton or packing until your grill is completely assembled and operating to your satisfaction.

Liquid Propane Models

If a L.P. gas cylinder has been included with your L.P. gas grill, it has been shipped empty for safety reasons. To be ready to grill immediately, please have the fuel cylinder filled with L.P. gas by an authorized L.P. gas dealer. Some L.P. gas grill models do not include a L.P. gas cylinder.

Natural Gas Models

Natural gas grills require a connection to a natural gas supply. The gas connection should be made only by a qualified installer or a licensed plumber. The gas supply line must not be installed by the consumer.

Assembly Step 1 - Identifying the Grill Parts

Locate these parts:

handle
standoff (2)

handle (1)

warming rack (1)

cast iron
cooking grids
6100 series (1)
8100 series (2)

rock grate (1)

side table (2)

base (1)
(2 locking casters and
2 non-locking casters
Installed)

cylinder retainer
wire (1)

Heat Indicator (1)

grill lid (1)

grill bottom
assembly (1)
(burner
assembly
Installed)

grease pan (1)

heat shield (1)

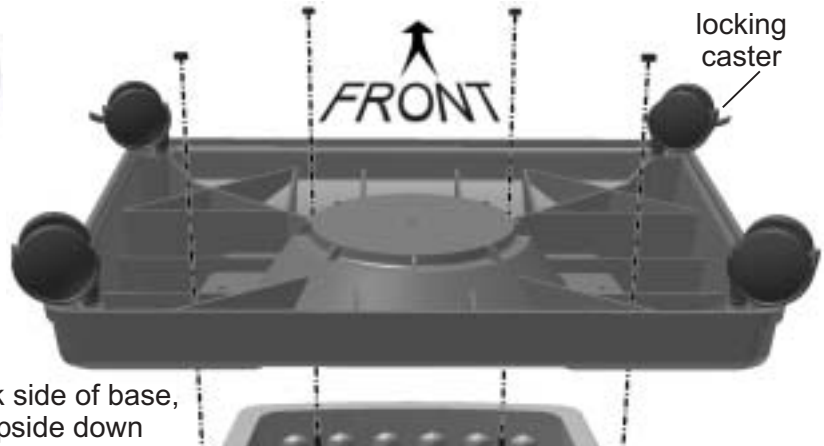
pillar (1)
(knobs, ignitor,
valve, hose with
regulator installed)

Not Pictured:
ceramic briquettes (1 pkg)
master hardware bag (1)
(consisting of 1 each of A,B,C,D bags)

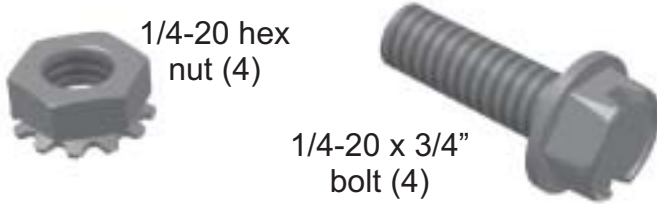
NOTE:
Not all models feature identical parts. Some components may differ,
but the functions and assembly are similar. Refer to the replacement
part listing in Chapter 3 for your model's components.

Assembly Step 2 - Attach the Base to the Pillar

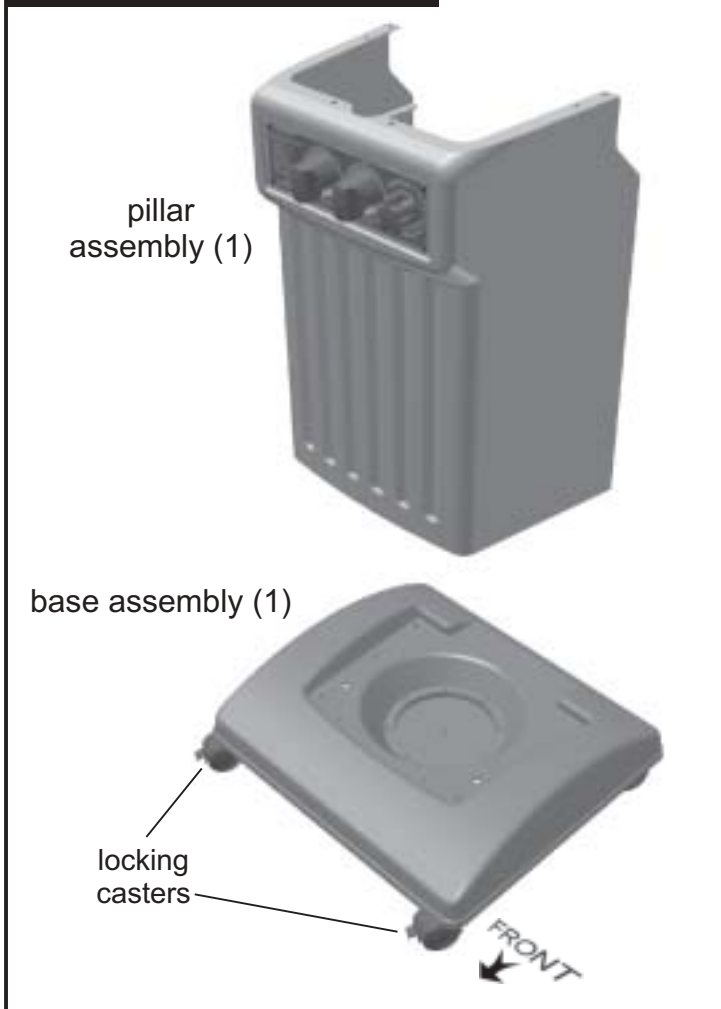
Tools Needed:



USE HARDWARE BAG A :



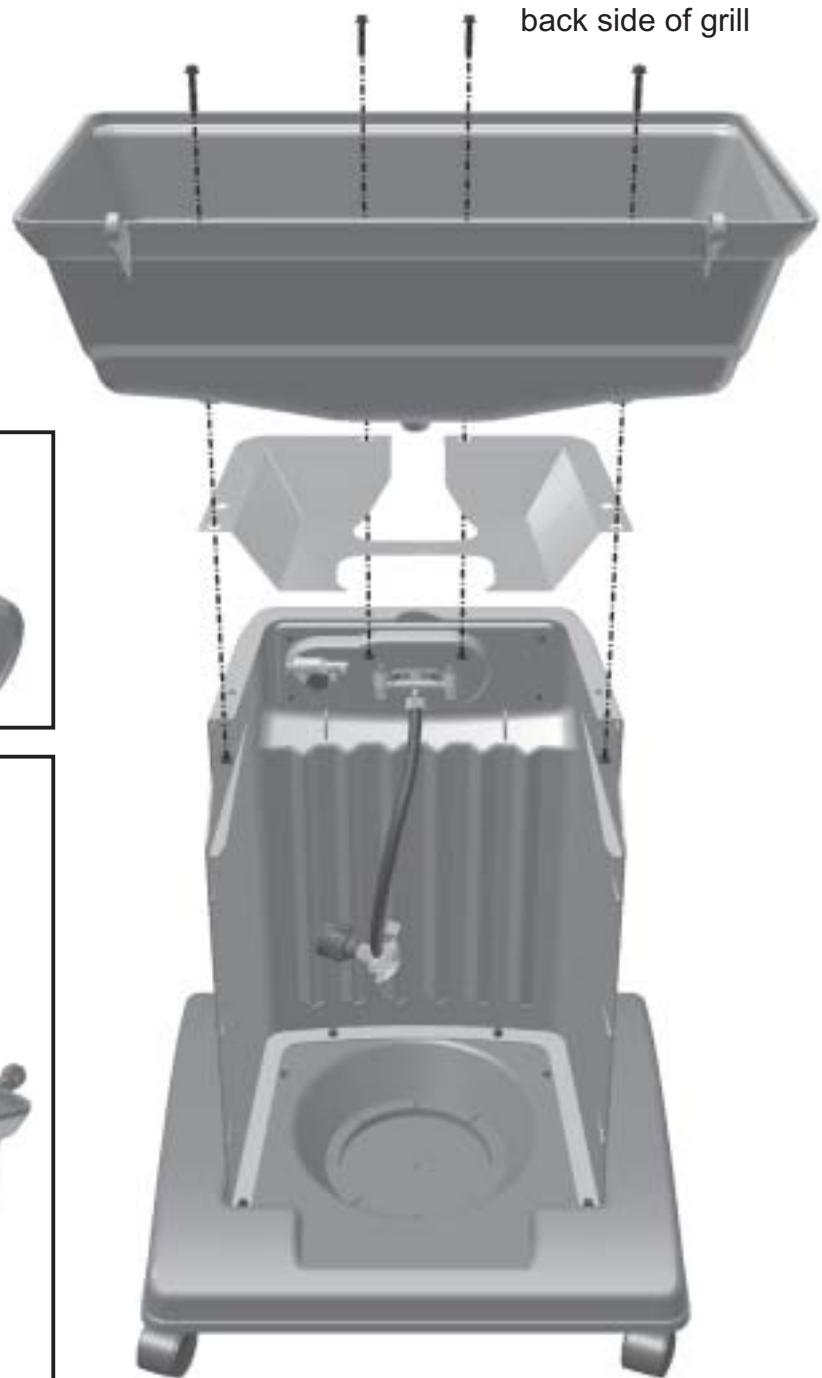
LOCATE THESE PARTS:



1. Lock the pre-assembled casters on base by pushing down on the latch.
2. Set the pillar upside down.
3. Set the base upside down onto the pillar bottom as shown, aligning the holes in the base with holes in the pillar.
4. Insert the four bolts through the holes in the pillar and base. Thread the locking hex nuts onto bolts. Tighten the bolts and nuts with the wrenches.
5. Carefully turn the assembly upright onto the casters.

Assembly Step 3 - Attach Grill Bottom to Pillar

Tools Needed:



USE HARDWARE BAG B :



1/4-20
nut (4)



1/4-20 x 1"
bolt (4)

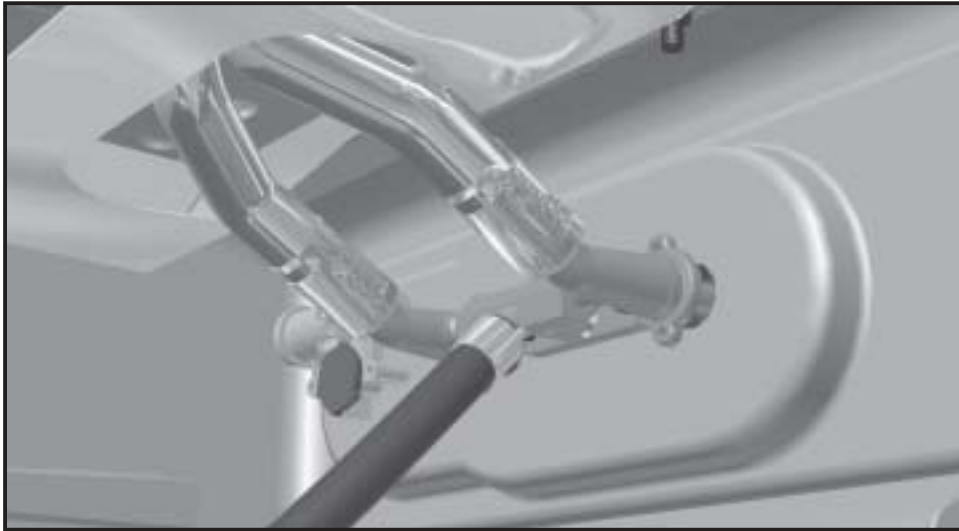
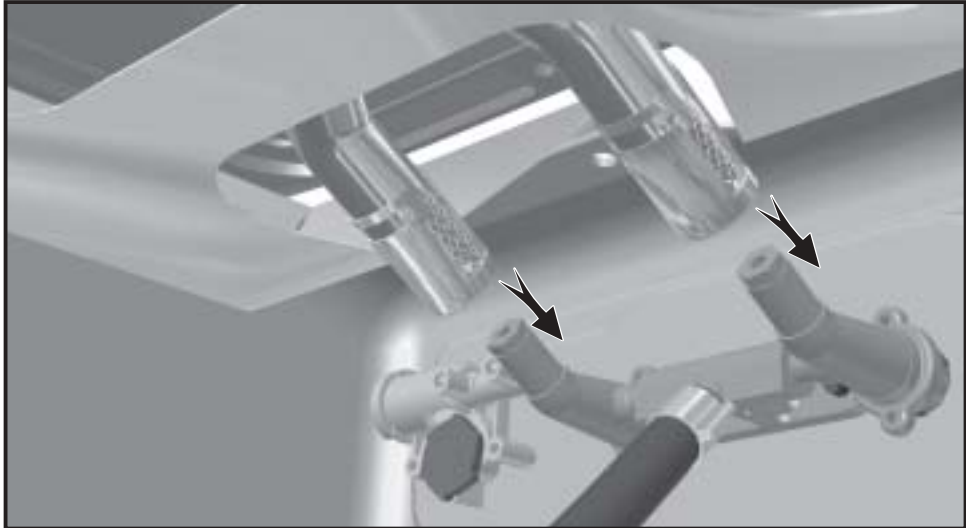
LOCATE THESE PARTS:



1. Working from the back (open) side of the pillar, set the heat shield on top of the pillar.
2. Set the grill bottom on top of the heat shield. Line up the burner tubes with the control valve orifices inside the pillar. Adjust the grill bottom and heat shield to line up the bolt holes.
3. Insert the bolts through the grill bottom and tighten the nuts from inside the pillar.

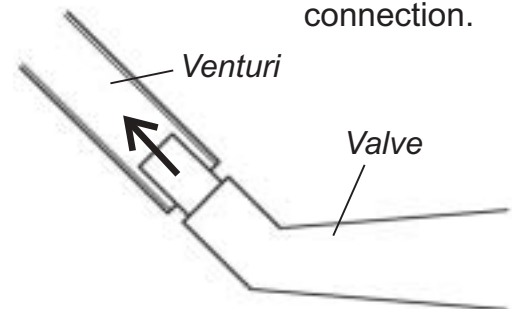
Assembly Step 3 - Continued

IMPORTANT: Make sure the control valve ends are properly seated inside the burner tubes as shown. (The control valve ends are attached to the pillar; the burner tubes are attached and extend through the grill bottom.)



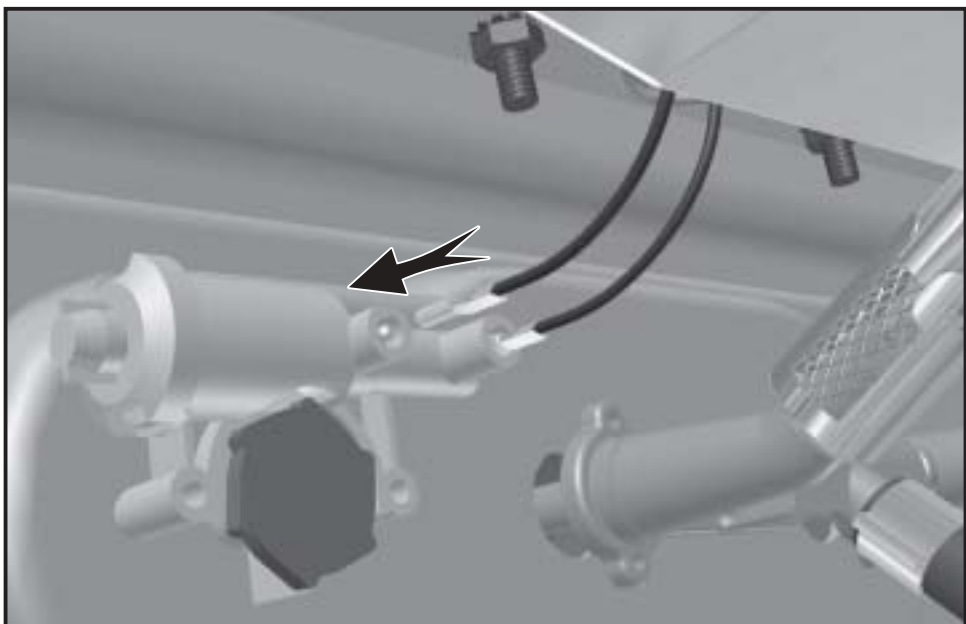
Improper installation and connection of the burner tubes to the control valves is dangerous and may lead to damaging fire and personal injury.

This illustration shows a proper connection.



4. Locate the two black igniter wires beneath the grill bottom.

Press the metal contacts of the loose ends of the wires onto the metal pins of the igniter unit. The position of the wires is not relevant - either wire may be connected to either prong. It is important that the wires are connected securely.



Assembly Step 4 - Attach the Side Tables

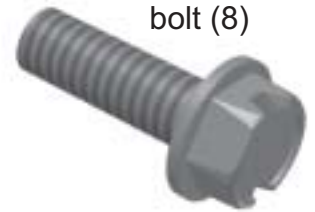
Tools Needed:



USE HARDWARE BAG C :

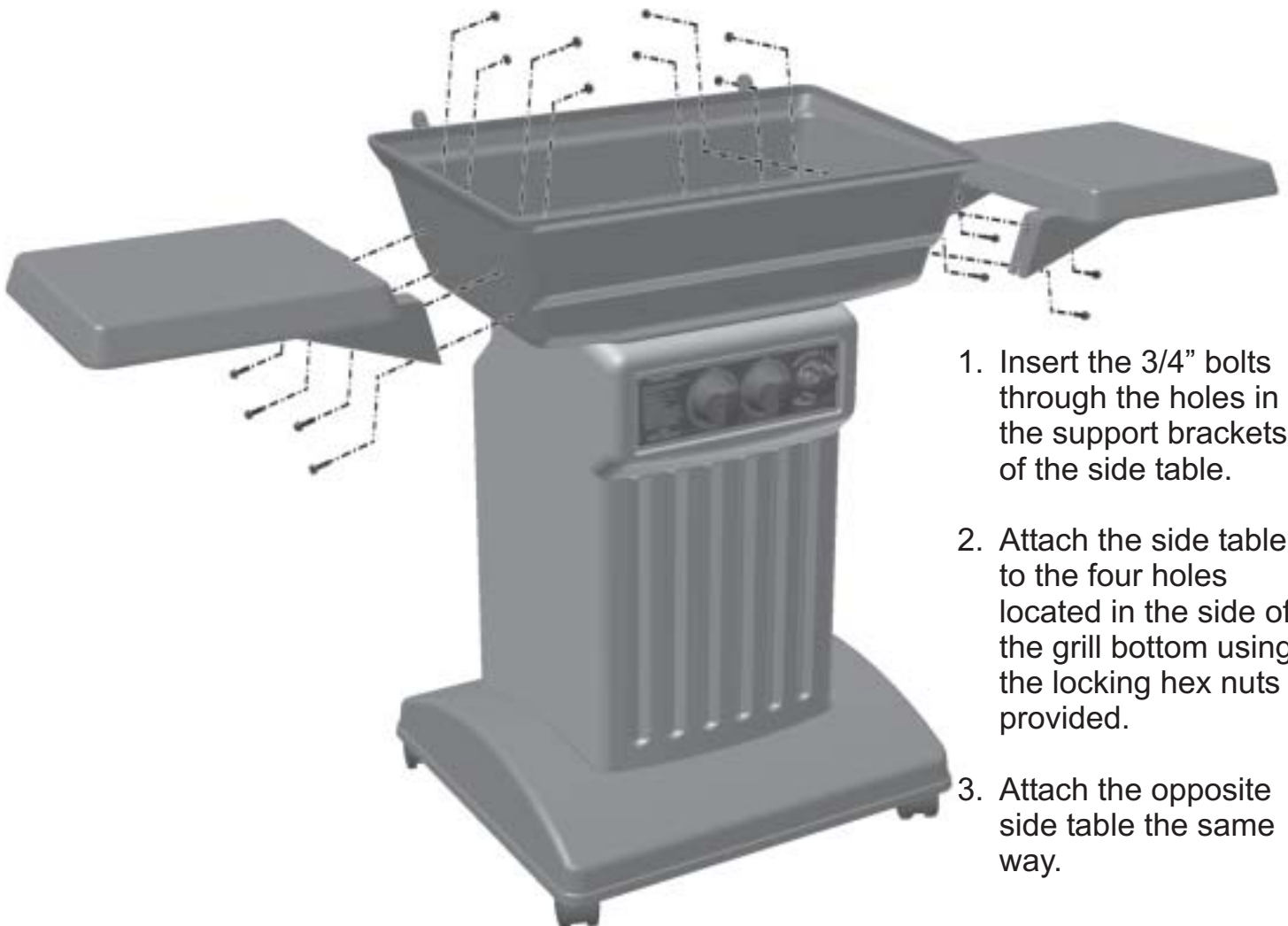


1/4-20 hex
nut (8)



1/4-20 x 3/4"
bolt (8)

LOCATE THESE PARTS:



1. Insert the 3/4" bolts through the holes in the support brackets of the side table.
2. Attach the side table to the four holes located in the side of the grill bottom using the locking hex nuts provided.
3. Attach the opposite side table the same way.

Assembly Step 5 - Assemble the Grill Lid

Tools Needed:

flat-head
screwdriver



7/16"
wrench

USE HARDWARE BAG D :

1/4" x 1-1/8"
hinge pin (2)



1/4-20 hex
nut (4)



hairpin (2)



1/4-20 x 5/8"
bolt (4)



standoff
gasket (2)

LOCATE THESE PARTS:



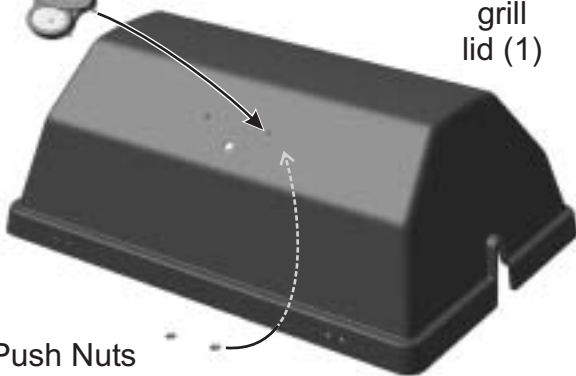
handle (1)

handle
standoff (2)

Heat Indicator (1)

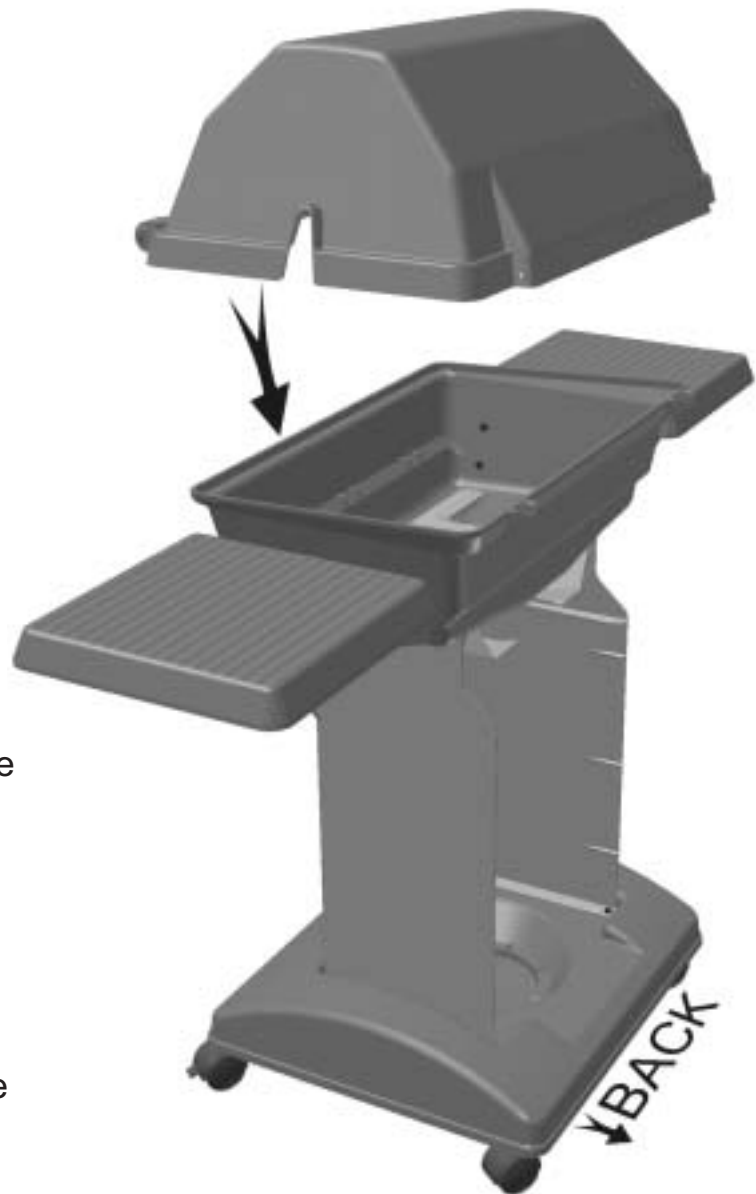


grill
lid (1)



Push Nuts
for Heat Indicator (2)

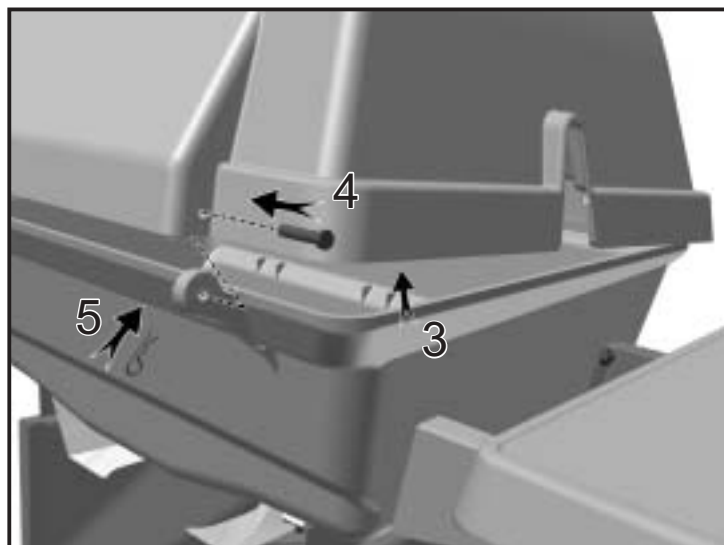
1. Place the heat indicator onto the front of the grill lid, lining up the 3 prongs with the 3 mounting holes.
2. From the inside of the lid, secure the heat indicator with the 2 push nuts.
3. Position the back of the lid so that the rear holes are in line with the hinge struts on the back of the grill bottom.
4. Gently set the grill lid onto the grill bottom.



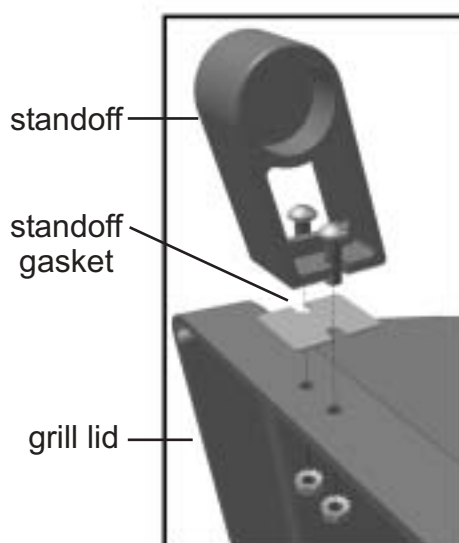
Assembly Step 5 - continued

5. Hold the lid to align the hinge holes.
6. Insert a hinge pin through the hinge hole in the lid and into the hole in the bottom hinge strut.
7. After the hinge pin is in place, insert a hair pin through the hole of the hinge pin to secure it.

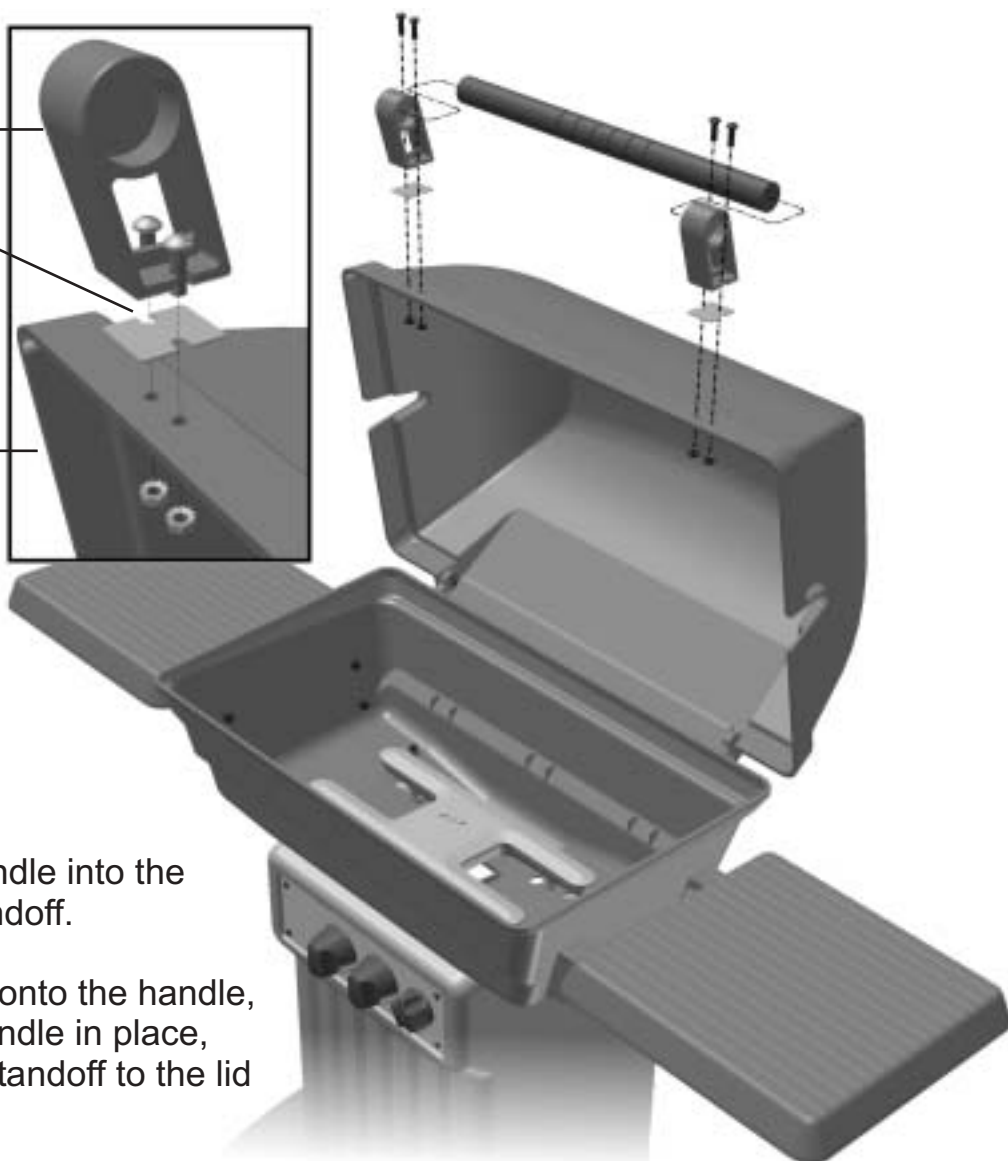
HINT: There is an air space between the back of the lid and the grill bottom where you can install the pins.



8. Repeat for the opposite side.



9. Raise the lid to attach the front handle.
10. Attach one handle standoff to the front of the grill lid, as shown.
11. Insert one end of the handle into the hole of the mounted standoff.
12. Place the other standoff onto the handle, and while holding the handle in place, assemble the opposite standoff to the lid in the same manner.



Assembly Step 6 - Installing the Internal Grill Parts

No Tools are Needed.

LOCATE THESE PARTS:

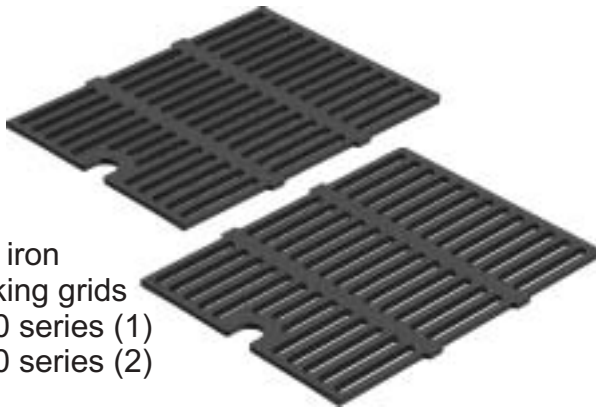
rock grate
(1)



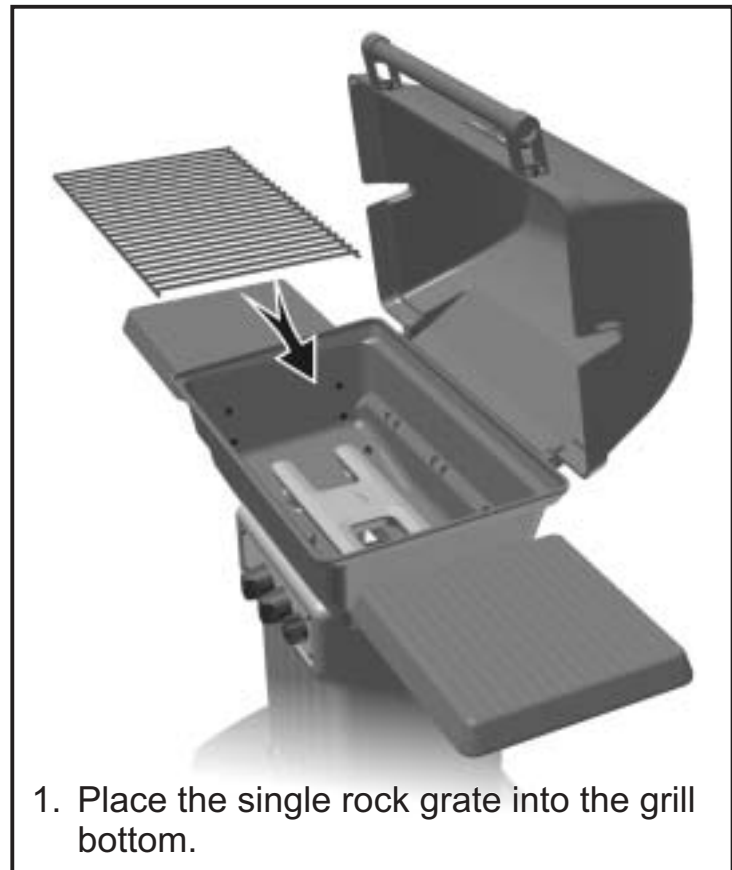
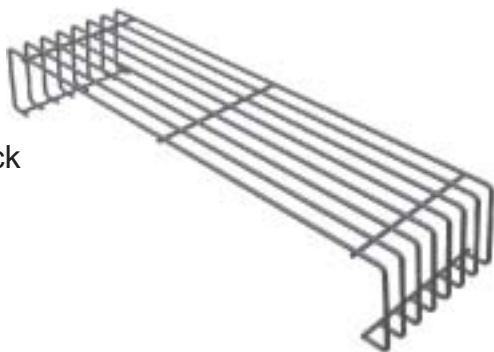
ceramic
briquettes
(1 package)



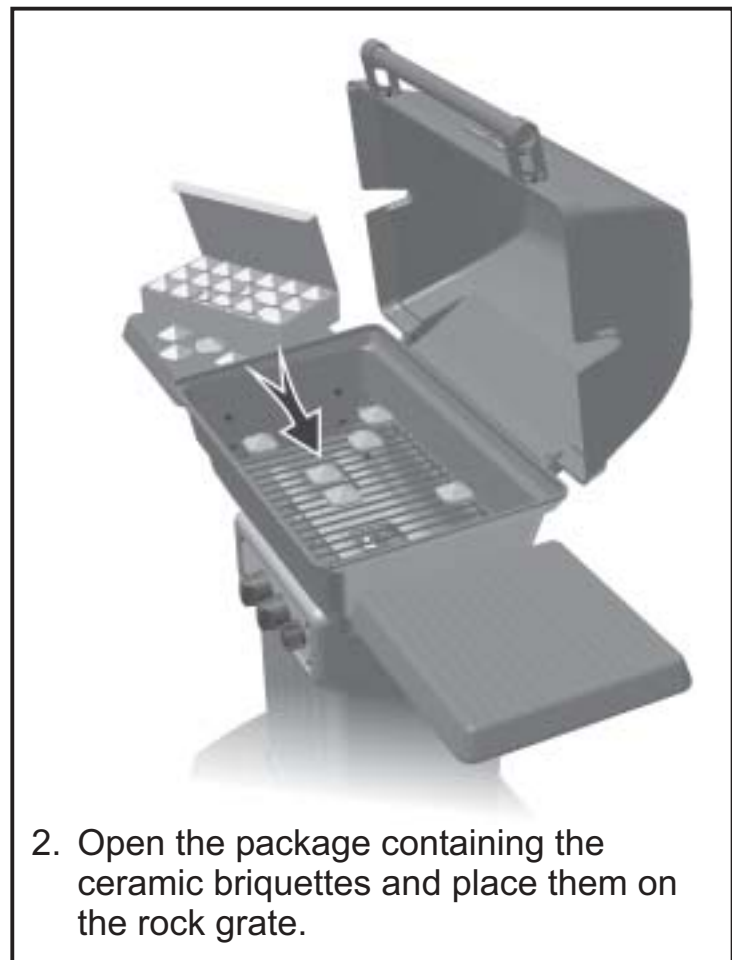
cast iron
cooking grids
6000 series (1)
8000 series (2)



warming rack
(1)



1. Place the single rock grate into the grill bottom.



2. Open the package containing the ceramic briquettes and place them on the rock grate.

Assembly Step 6 - continued

3. It is important to properly arrange all the ceramic briquettes onto the rock grate to allow for good air flow during use.

NOTICE THE SPACING:

The proper amount of briquettes are supplied and there is no need to add more. Some space between the briquettes is necessary.

4. Set the porcelain coated cooking grids, side by side, on the front and back ledges formed inside the grill bottom for a level cooking surface.
(6000 series grills are equipped with one large single cooking grid in place of the 2 grids)
5. Set the warming rack onto the back of the cooking grids.

Installing an L.P. Gas Cylinder

Items Needed:

L.P. Gas Cylinder
(1 FILLED)

NOTE: Some
L.P. grill models
DO NOT include
an L.P. gas
cylinder

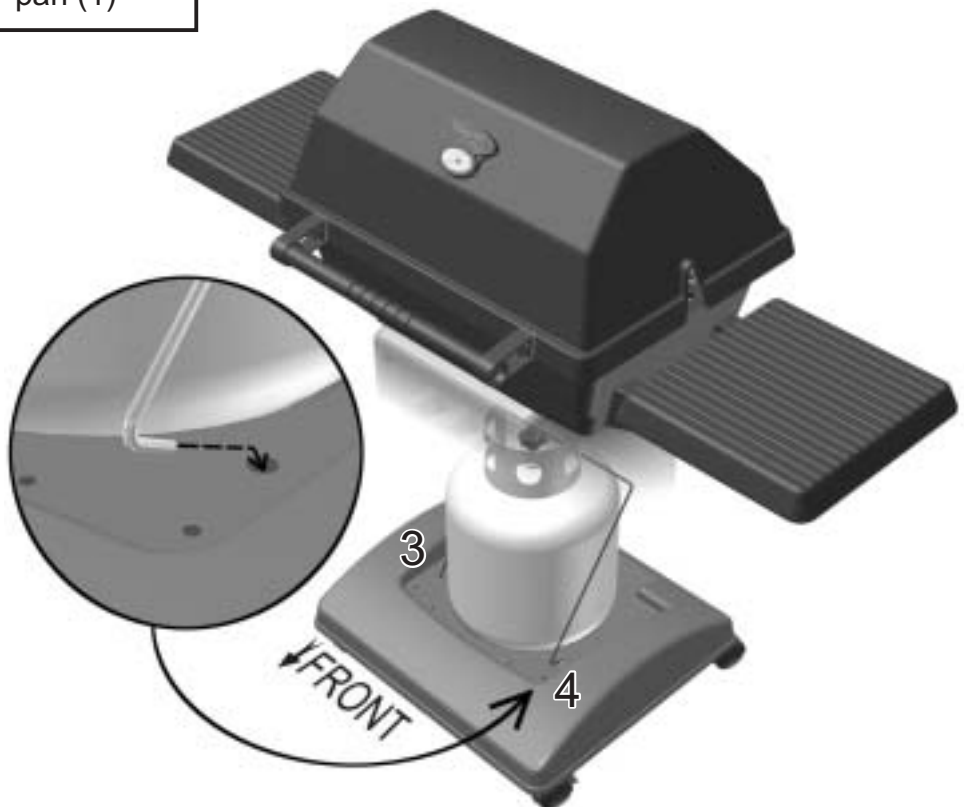
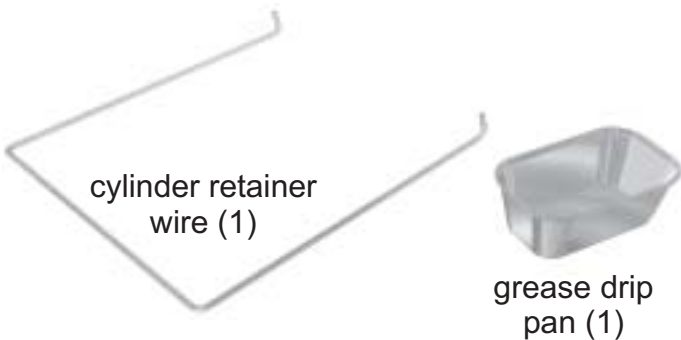


Obtain a filled L.P. gas cylinder. Read and follow all directions on the cylinder and fuel hose safety tags.

WARNING: Connect the L.P. cylinder to the grill outdoors only.

1. Working from behind the grill, set the cylinder into the large round opening in the grill base.
2. Position the cylinder-retainer wire around the cylinder collar as shown.
3. Insert the right end of the wire into the small opening in the base.
4. Flex the left side so that it fits into the opposite opening on the left side of the base.

LOCATE THESE PARTS:



Connecting the L.P. Gas Cylinder



1. The top knob on the supply cylinder must be closed. See that the top cylinder knob is turned clockwise to a full stop.

2. Check that all the grill burner knobs are turned off.

3. Remove the protective caps from the cylinder valve and coupling nut, if present.

4. Hold the regulator in one hand and insert the nipple into the valve outlet. Be sure the nipple is centered in the valve outlet. The coupling nut connects to the large outside threads on the valve outlet. Use care not to cross thread the connection.

5. Hand tighten the coupling nut clockwise until it comes to a full stop. Tighten by hand only. Do not use tools.

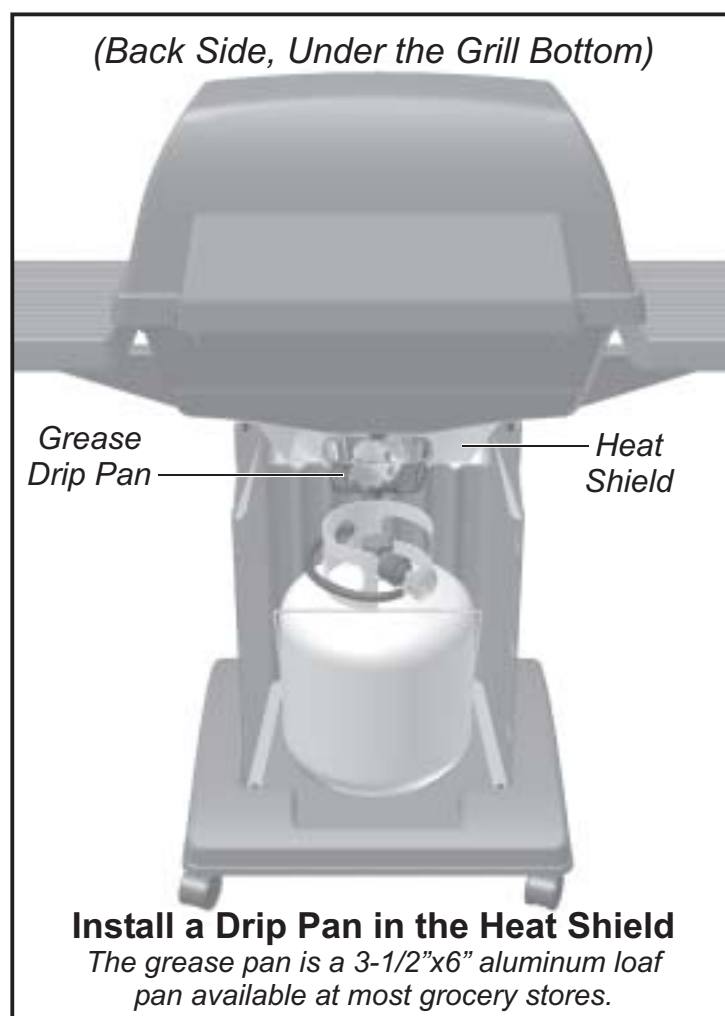
6. **CAUTION:** In the connection process, the grill side of the connection will seal on the back check in the valve, resulting in a slight resistance. The connection requires about one-half to three-quarters additional turn to complete the connection.

NOTE: If you cannot complete the final connection, disconnect the regulator and repeat steps 4 through 6. If you are still unable to complete the connection, do not use this valve and regulator.

7. Make sure the hose has no kinks or sharp bends and clears any areas that will become hot during use. Never put strain on the hose where it joins a fitting. The rubber fuel supply hose must not touch the bottom grill casting during use.

8. Before lighting grill, check all connections for leaks using a mild soapy-water solution.

9. Place an aluminum 3-1/2" x 6" loaf pan into the opening in the heat shield located beneath the grill bottom. During use the pan will catch hot grease drippings that could damage the fuel supply system.



Natural Gas Grills - Connecting to Natural Gas

(for specially equipped natural gas grills only)

DANGER: EXPLOSIVE AND FLAMMABLE!
If the appliance is for connection to natural gas, the gas connections should be made by a qualified installer or a licensed plumber. The gas-supply line must not be installed by the consumer.

The valve-orifices and fuel supply hose system necessary for use with natural gas is different than the system required for L.P. gas. Modification to the burner valve/orifices allow the use of natural gas. An L.P. cylinder is not needed.

WARNING: Do not use liquid propane (L.P.) gas in an appliance designed for natural gas. Use only natural gas in an appliance designed for natural gas.

INSTALLATION FOR NATURAL GAS

The maximum inlet supply pressure is 11.0" w.c. for propane gas and 7.0" w.c. for natural gas.

The specified supply pressure is 11.0" w.c. for propane gas and 7.0" w.c. for natural gas.

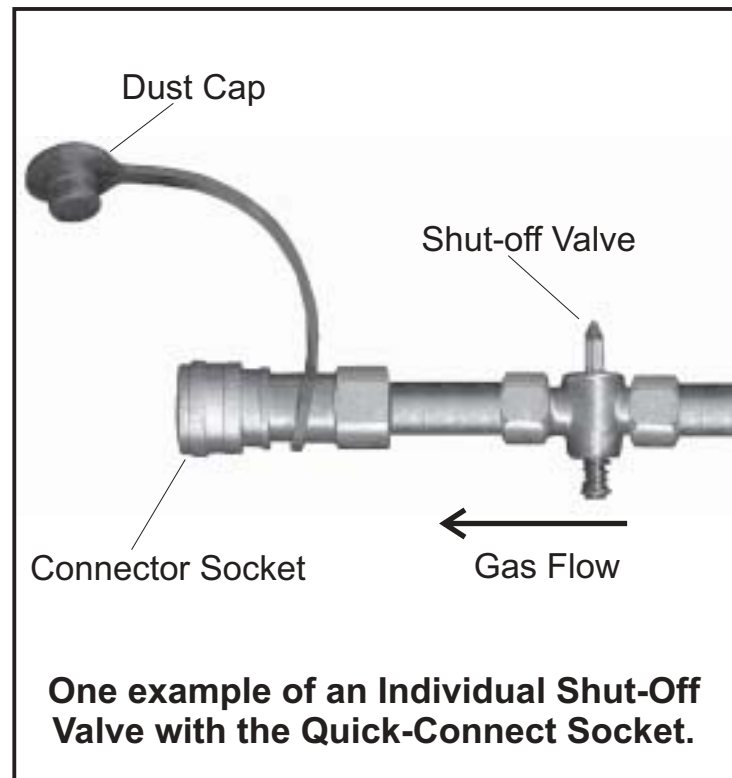
The piping system should be installed by a qualified service technician in accordance with the National Fuel Gas Code (NFPA 54/ANSI Z223.1) in the U.S.A., including:

1. The appliance and its individual shut-off valve must be disconnected from the gas-supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5 kPa).
2. The appliance must be isolated from the gas-supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).

A quick-connect coupling sleeve with 3/8" female end is provided. Install the connector socket at the pipe end, after the shut-off valve. This must be installed where the grill will be in use.

It is important to observe the safety guidelines for choosing a safe location. The gas supply must be shut off prior to installation of the quick connector socket. Use only a matching factory authorized quick-connect plug with the quick-connect socket.

Natural-gas units are equipped with a 12-footlong quick-connect fuel hose in place of the shorter hose/regulator attached to the burner valve.



Prior to inserting, turn on gas supply and test all connections with an ammonia-free soap and water solution. Apply this solution to the stem of the shut-off valve and opening of the socket to detect leaks. (See Leak Testing Natural Gas Connections on the following page).

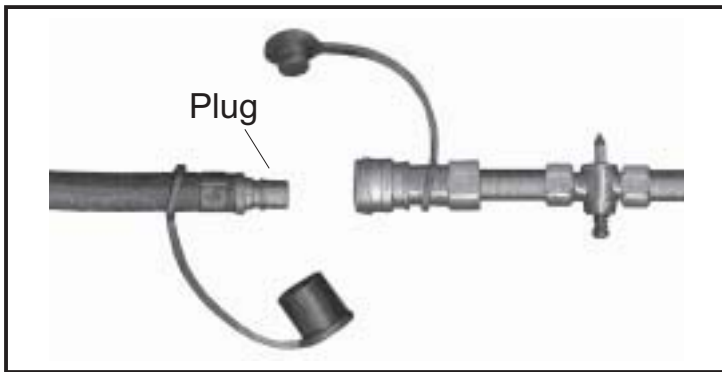
Natural Gas Grills - Connecting to Natural Gas

(for specially equipped natural gas grills only)

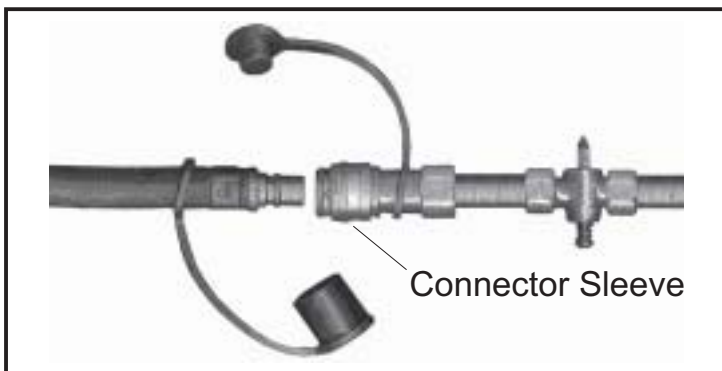
OPERATING THE QUICK-CONNECT

Follow all directions on tags attached to hose.

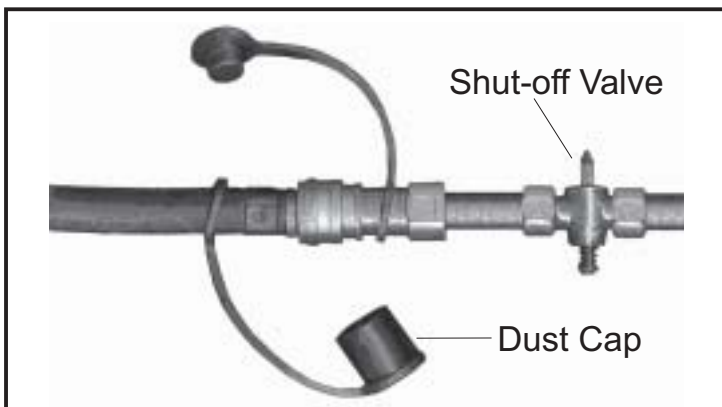
1. To connect the fuel-supply hose to the fuel supply, the shut-off valve must be closed.
2. Remove the dust cap from the connector socket by sliding the connector sleeve back to release the plug. Remove the dust cap from the plug.



3. Position the plug end of the fuel supply hose into the sleeve opening.



4. Slide the connector sleeve back, firmly push the fitting into the connector.



5. Push the plug into the connector until the sleeve snaps forward to lock the fitting in place. Turn on the shut-off valve. The flow of gas to the appliance will be restricted if the plug is not connected properly.

6. Test for gas leaks using an ammonia-free soap and water solution.

TO DISCONNECT THE FUEL SUPPLY

1. Pull connector sleeve back and pull plug out of socket. This will automatically shut off gas to the appliance.
2. Close the shut-off valve and install the dust caps on the socket and plug. Always turn off the fuel supply at the shut-off valve when the grill is not in use.

LEAK TEST CONNECTIONS

Test all the fuel supply connections using an ammonia-free soap and water solution equally mixed. Never use fire to test for leaks.

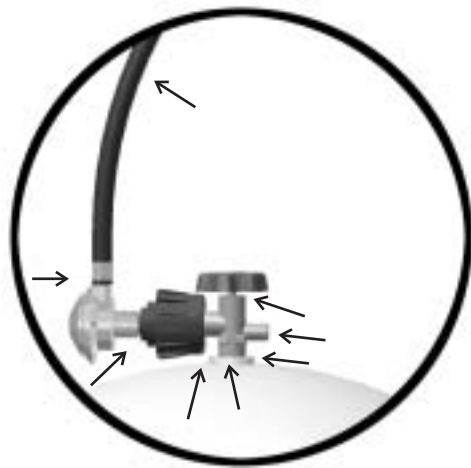
1. Turn on the gas shut-off valve.
2. Coat all connections of the fuel supply system, especially at the quick-connect.
3. Watch for bubbles to indicate a leak.
4. If there is a leak, shut off the gas supply and re-connect the hose to the socket. Re-test for leaks.

Do not use the grill if a leak is detected that cannot be corrected in this manner or if the hose and connections become damaged. Replace damaged components with only factory authorized parts.

Do not strain or kink the fuel-supply hose. See that the hose is kept clear of surfaces that become hot during use.

Portable Gas Grill (VC0620P) (6000, 8000 Series) (VC0680P) (VC0680N)

Use and Care Directions Chapter 3



Leak Testing the Fuel Supply System



Lighting Instructions



Replacement Parts

Leak Testing

DANGER

To prevent fire or explosion hazard:

- Do not smoke while performing a leak test.
- Do not permit any sources of ignition in the area when testing for leaks.
- Perform leak tests outdoors only.
- Never perform a leak test near a fire or flame.

How to Check the Fuel Supply System for Gas Leaks

1. Mix a solution of equal parts mild detergent or liquid soap and water.
2. Turn off the burner control knobs.
3. Turn the top knob of the fuel-supply cylinder counterclockwise one rotation to open.
4. Apply the soap solution to all connections of fuel-supply assembly.

If no soap bubbles appear, the grill is fine for use.

If bubbles form at the connections, there is a leak. In case of a leak, try tightening the joint. If necessary, replace the faulty part with a replacement part recommended by the manufacturer.

5. Turn off the knob on fuel-supply cylinder.
6. Turn on the burner control knobs for a moment to release pressure in hose, then turn the control knobs back off.
7. Wash off soapy solution with cold water and towel dry.

WARNING: Do not attempt to repair the cylinder valve. If it becomes damaged, the cylinder must be replaced.

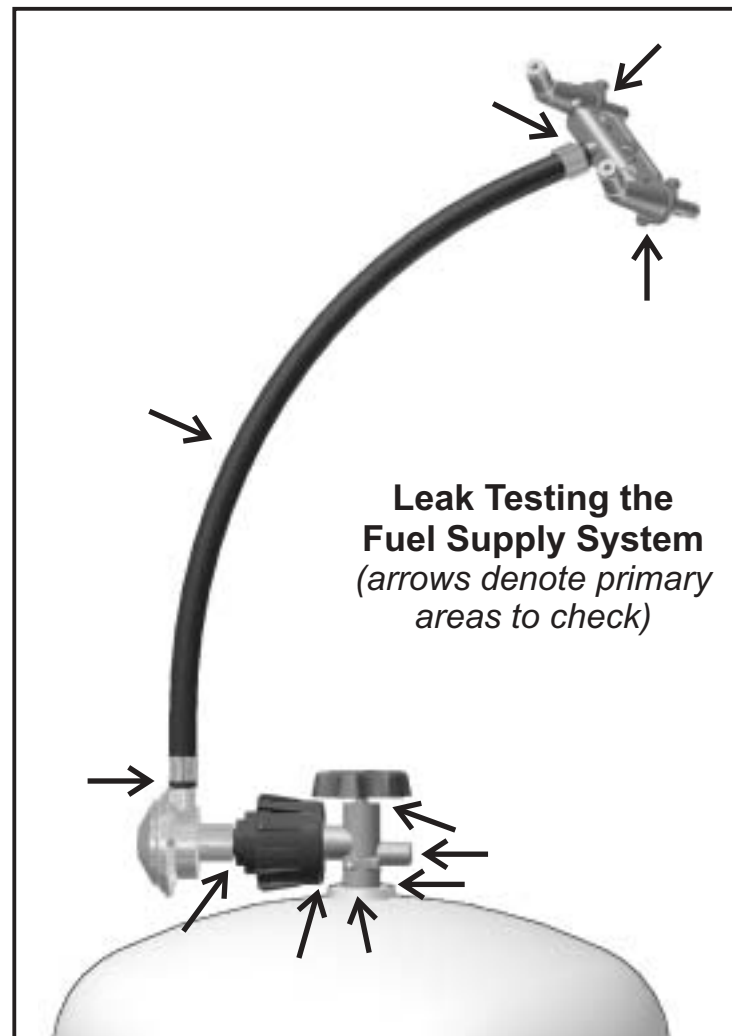
If you are unable to stop a leak, shut off the gas supply at the cylinder valve. Remove the cylinder from the grill. Call a gas appliance serviceman or L.P. gas dealer. Do not use appliance until the leak is fixed.

Perform a leak test each time the gas supply cylinder is connected to the regulator. Leak test any time a part of the gas system is replaced. Perform a leak test at least once each year whether the L.P. gas supply cylinder has been disconnected or not.

Have a dealer check the cylinder for deterioration after 10 years, according to DOT regulations. Immediately replace cylinder if any is found.

IMPORTANT! Inspect the gas supply hose regularly. If there are cuts, excessive abrasion or wear, replace the hose prior to operating the appliance.

Use only the hose replacement specified in the parts list for your grill.



Lighting Instructions

IGNITER LIGHTING SYSTEM

The Igniter System consists of an igniter unit, a gas-collector box, one ceramic electrode, and lead wires. Gas is collected in the metal collector box located at the burner. When the igniter knob is turned, an electric spark is created at the ceramic electrode. The gas is then ignited by the spark.

To test: Watch the electrode tip inside the gas collector while activating the igniter. To avoid a possible shock, do not touch the burner or metal parts on igniter system while performing igniter test. A visible spark should jump from the electrode. The spark gap is set when the electrode is installed.

If there isn't a spark, check the lead wires and connections. The igniter wires should be kept away from the grill bottom. Also check that the ceramic electrode in the collector box is not broken.

Sometimes dirt and rust at and around the electrode can prevent an igniter spark. Clean them with a degreaser or warm soapy water, and dry. Remove rust from electrode tip and metal surfaces by lightly sanding with an emery cloth or fine-grain sandpaper.

LIGHTING INSTRUCTIONS

(Read all the steps before beginning.)

STEP 1. Check the burner venturi tubes for blockage from an insect nest (see, "CLEANING THE BURNER VENTURI TUBES").

STEP 2. Ensure that both of the burner-control knobs are in the OFF position.

STEP 3. **OPEN GRILL LID**

WARNING: Attempting to light the grill with the lid down could cause an explosion.

STEP 4. Go behind the grill and turn on the fuel supply valve. One counter-clockwise turn is generally enough to open the valve.

CAUTION: Do not stand with head or arms over the grill.

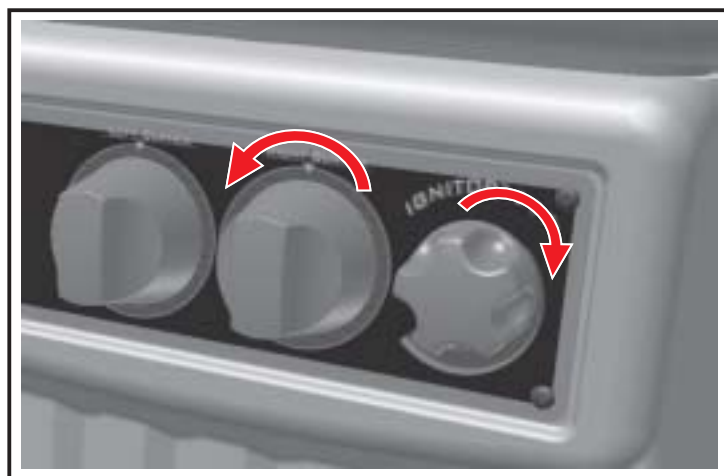
STEP 5. To light using the igniter: Push in and turn the right burner-control knob counter-clockwise to the high setting.

STEP 6. Immediately turn the igniter knob clockwise until you hear it click. Repeat 4 to 5 times if necessary.

The burner should light.

STEP 7. If the burner fails to light properly, turn the burner control knob off. Also turn off the L.P. cylinder knob. Wait five minutes before attempting to light the burner again. This will allow time for released gas to disperse.

HINT: If the burner does not light after trying again, turn off burner-control knob, the L.P. cylinder knob and try match lighting the grill once the gas has cleared.



Operating the Control Knobs

Gas control knobs **PRESS IN** and rotate counterclockwise.

TURN THE IGNITER KNOB CLOCKWISE UNTIL IT CLICKS. Do **NOT** turn the igniter knob counter-clockwise because it will strip the knob and become unuseable.

Lighting Instructions

MATCH LIGHTING

IMPORTANT: The match lighting hole is found under the front right corner of the grill bottom. When match lighting the grill, use the gas control knob on your **RIGHT-HAND** side (closest to the match lighting hole).

Repeat steps 1 to 4 of “Igniter Lighting Instructions.”

STEP 5. To match light: push down and turn the **RIGHT** burner control knob counterclockwise to the high setting.

STEP 6.

IMMEDIATELY strike a long wooden match and position the burning match through match lighting hole in the grill bottom. Extend the flame near a burner port in the bottom edge of the burner. The burner should light.

To light the other side of the burner, press in and turn the opposite control knob. The flame will track around the burner. Allow grill to preheat with the grill lid closed for five to ten minutes before cooking.

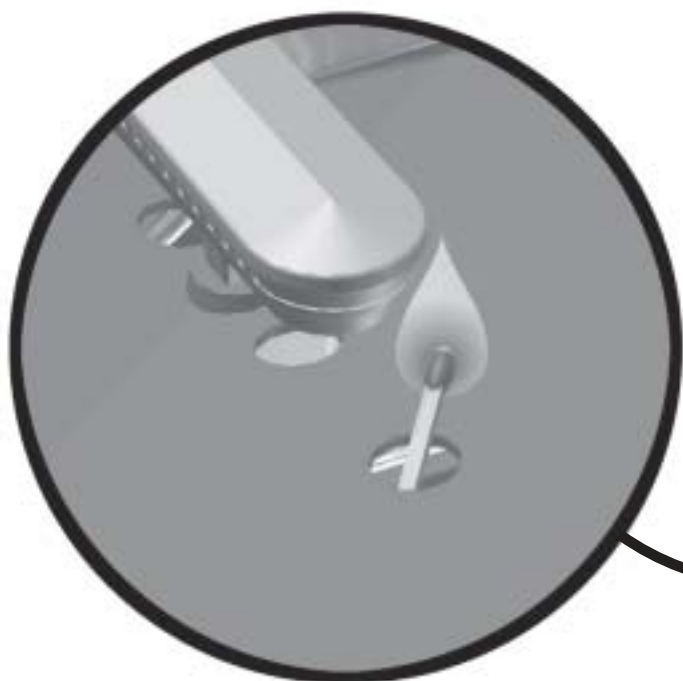
CAUTION: Do not touch any hot grill parts. The outside of the grill bottom becomes very hot during use. It may be necessary to use protective gloves.

HOW TO SHUT OFF THE GRILL

STEP 1. Turn the burner-control knob(s) off. The burner flame will go out.

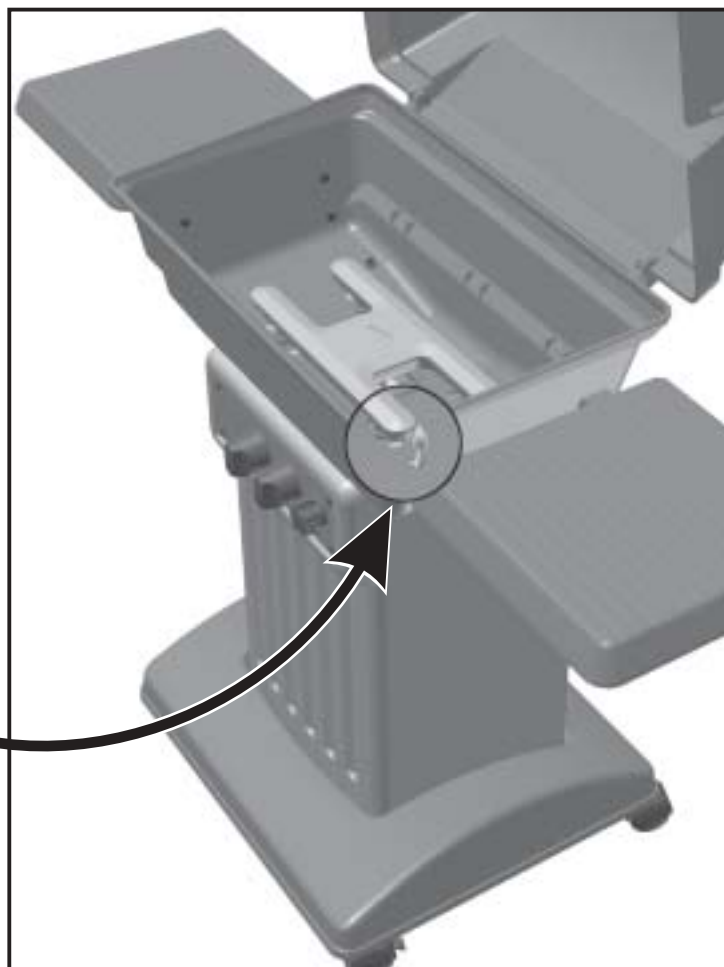
STEP 2. Turn off the top L.P. cylinder valve by turning the knob in a clockwise direction until it stops.

IMPORTANT: Always have the gas shut off at the L.P. cylinder valve when the grill is not in use. The L.P. cylinder has a leak detection feature which will restrict the amount of gas flow to the burner if the tank shut-off valve has not been turned off prior to the next use.



Locating the Match Lighting Hole

The match lighting hole is located beneath the lower right corner of the grill bottom casting.



Using Your Gas Grill

TO BREAK IN A NEW GRILL

Before using it for the first time; operate the grill with lid closed on a low setting for about 15 minutes. This will help burn away oil and the smell of new paint. After the oil has burned away, check the burner flame.

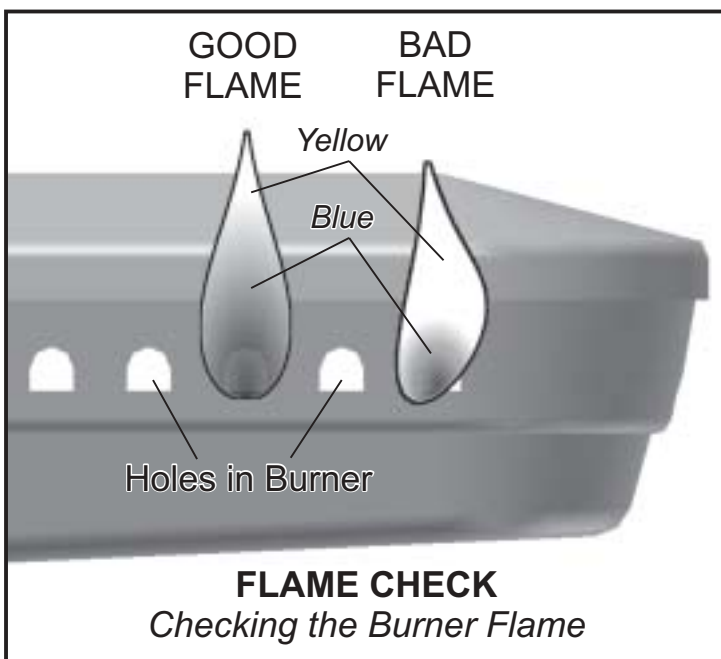
BURNER'S FLAME

Keep the grill lid closed and the grids in place. Inspect the burner's flame by carefully looking below and through the air-supply openings in the grill bottom.

A good flame should be blue with some yellow tip coming from the burner holes. Some yellow tips on flames up to 1" in length are acceptable as long as no carbon or soot deposits appear.

If flames are excessively yellow and irregular, the oil residue may not be completely burned off, or the venturi may not be properly positioned over the orifice(s). Allow grill to cool before repositioning venturi over valve.

After a grill has been in use for a while it may begin to have a more yellow flame. A build up of food deposits, fats, or cooking seasonings can cause yellowing of flames. Try cleaning the burner to remove built-up residue. Check for clogged burner holes or blocked venturi tubes.



Regular use of your grill will actually help keep it operating more smoothly. It is not unusual for similar units to heat a little differently.

CONTROL SETTINGS

The high flame setting is for quick searing of meat. Sear foods, then finish cooking on a lower setting.

A medium setting works best for cooking steaks, pork chops, and hamburgers.

The lowest setting works well for all roasts and rotisserie foods. Even thick steaks, when seared on a high setting first, will have a better texture and be more juicy cooked on low.

DUAL BURNER COOKING SYSTEM

The grill's burner may be operated to cook on either side or both sides at once. This allows for various styles of cooking.

1. Use a direct heat source when browning meat or cooking hot dogs and hamburgers. Check the food often.

2. Cook large-size foods (such as roasts, turkey, or duck) on a low, direct heat. Place food and water in foil pan with corrugated bottom, adding water as needed.

3. If doing skillet or stir-fry cooking, limit the amount of oil and direct heat used.

4. Cook foods that burn easily over an indirect heat. Light one side of the burner and place the food on the other side for cooking. The food will cook slower but should be more tender. This method of cooking also reduces grease flare-up. Add a small pan of water to help keep meat moist, replace the water as needed.

5. Casseroles can be cooked in oven-proof or foil pans using indirect heat.

6. Cook two foods at once using different settings.

7. To add smoked flavor, try adding wood chips in apple, mesquite, and hickory flavors.

Caring for Your Gas Grill

COOKING TIPS

Prior to lighting the grill, coat the cooking grids with cooking oil to prevent food from sticking. Preheat the grill with the lid closed about five to ten minutes before cooking. Cook with lid down when possible. This will keep temperature even, conserve fuel, improve food's flavor, and lessen flare-ups.

Never leave cooking food unattended. Frozen meat and poultry should be thawed before cooking. Trim the excess fat. Frozen fish and vegetables will cook without thawing. However, placing frozen food onto very hot porcelain grids can crack the porcelain finish.

Add salt to food after cooking to prevent it from drying out. Brush naturally lean meat, poultry or fish with cooking oil or margarine.

Cook small pieces of tender foods in foil. Apply barbecue, tomato, or sugar-based sauces no sooner than the last ten minutes of cooking. Turn food with a long-handled spatula or tongs.

During operation, stand to side of grill when opening the grill lid. Lift lid handle slowly in case of a grease flare-up. Do not position any part of your body directly above the cooking area. Some flare-up is expected. It adds a smoky flavor and sears food, but a major grease fire can cause a potentially hazardous situation and damage the grill.

IN CASE OF A MAJOR GREASE FIRE, follow these steps:

1. Turn the burner-control knob(s) to off.
2. Stay away from grill.
3. Allow the fire to burn itself out.
4. After the fire is out and the grill is cool, shut off the fuel supply valve at the fuel source.
5. Clean all parts.
6. Check for damage to the gas-supply hose, burner valve, and burner. On L.P. appliances also check the L.P. cylinder, L.P. cylinder valve, regulator and hose. If any of these parts are damaged, replace them with factory authorized parts before operating the appliance again.

CARING FOR YOUR GRILL

Regular care of your grill will help keep it operating properly. Cleaning or maintenance may be done only when the grill is cool and with the fuel supply turned off. Clean grill parts and tighten loose hardware as needed.

Do not put grill parts in a self-cleaning oven as the extreme heat could damage them. Do not use a combustible or flammable cleanser on grill. Do not use a commercial oven cleaner.

Always keep a small aluminum pan beneath the grill bottom to catch grease drippings during use. The grease pan is a 3-1/2"x 6" aluminum loaf pan available at most grocery stores. CAUTION: The grease pan and grill bottom become extremely hot during use. To avoid burns empty grease pan only when the grill is cool.

The small vent hole in the regulator must be kept clean of dirt and debris. Keep the gas-supply hose at least 3" away from any grill surface that becomes hot during use.

REGULAR CLEANING AND UPKEEP

After each cooking, shut the lid and turn control knobs to highest setting for 5 minutes to burn off grease drippings inside grill. Occasionally turn the ceramic briquettes over before lighting to burn off extra grease residue. Replace them with fresh ones if they become too saturated with grease.

Use a brass bristle brush on porcelain cooking grids. Wash cooking grids with a mild soap, a scrub brush and hot water. Use a mild soap and hot water to wash all other grill parts.

To refinish the outside of the aluminum grill castings, clean and then lightly sand with a fine sandpaper. Clean with a vinegar / water solution, and rinse with water. When dry, paint with a high temperature paint following directions on paint can label.

IMPORTANT: NEVER leave a grill unattended when in use.

Cleaning and Maintenance

Inspect and clean the burner regularly. Remove grill components from the grill bottom necessary to get to the burner inside. Use a wire bristle brush to clean the burner surface. A straightened paper clip is useful to remove debris from the small burner ports.

CLEARING THE BURNER VENTURI TUBES

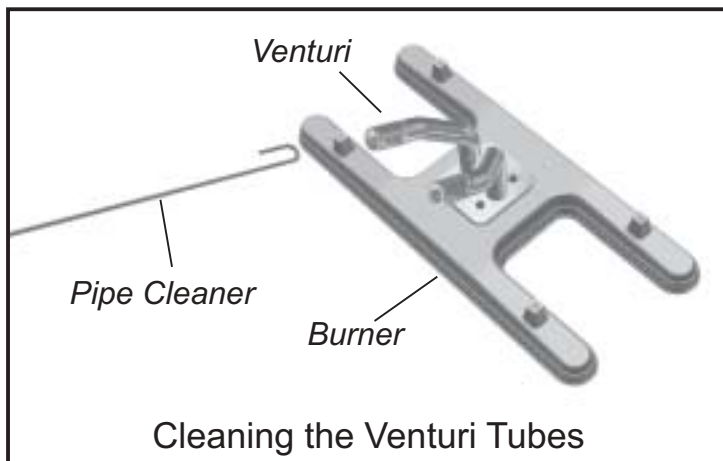
Spiders and other insects are known to sometimes build homes inside a burner's venturi tubes. This can become a serious problem. A spider web or wasp nest inside the venturi tube can block gas flow and can cause a fire at the gas control valve. Such a fire can cause operator injury and do serious damage to your grill. The venturi tubes have fine screens to discourage spiders and insects from building a nest inside. However, some very small spiders may spin webs inside the venturi tubes.

Inspect the venturi tubes if a blockage is suspected.

First, disconnect and remove the fuel source from the grill.

Next detach and remove the burner from grill bottom.

Insert a long pipe cleaner (about 20" long) inside the venturi tubes to loosen and remove blockages. Use care so as not to damage the screens inside the tubes. A high pressured stream of water may also be used.



If a blockage occurs inside the gas-control valve, located behind the control panel, it may be necessary to clear the valve orifices. Unscrew the orifices from rear of the gas-control valve. Wash the orifices and blow air through the small end holes. Replace the orifices into the valve ends when they are dry.

WARNING: Never attempt to operate your grill without orifices in the valve. A serious and immediate fire hazard would result.

Replace the burner assembly into the grill bottom after it is clean. **IMPORTANT!** Make sure the valve orifices are inside venturi tubes. Secure burner to the grill bottom, and reconnect the igniter wires. Replace all other parts inside grill. Reconnect the fuel cylinder to grill. Inspect the condition and position of the gas-supply hose.

STORING AN L.P. GRILL

WARNING: Store an L.P. gas-supply cylinder outdoors in a cool area, out of direct sunlight, and away from people or pets.

Portable grills can be stored indoors without the cylinder. If leaving it outdoors, cover the grill for protection from weather.

OPTIONAL ELECTRICAL ACCESSORIES

If owner-supplied electrical accessories are used with grill (such as an electric rotisserie), follow specification statements included with the accessory. Do not allow cord to touch any hot surfaces that could melt the insulation.

IMPORTANT: If using an external electrical source, the installed appliance must be electrically grounded according to 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.

Grounding Instructions: Use an appliance equipped with a three-prong grounding plug for your protection against shock hazard. It should be plugged directly into a properly grounded three-prong receptacle. Do not remove the grounding prong from a three-prong plug.

Long detachable power-supply cords or extension cords can also be used with care. The marked electrical rating of the cord set or extension cord should be at least as great as the electrical rating of the appliance. If the appliance is of the grounded type, the extension cord should be a grounding-type 3 wire cord. Use outdoor extension cords with a surface marked with suffix letters "W-A" and with a tag stating "Suitable for Use with Outdoor Appliances."

Keep the connection to an extension cord away from water and off the ground. Arrange the cord so that it will not drape over the counter top or tabletop where it can be pulled or tripped over.

Do not clean any electrical product with a water spray or the like. Store electrical products indoors out of reach of children when not in use.

6000, 8000 Series Replacement Parts

Replacement parts are available direct from our warehouse. Some components are not available preassembled and may be ordered separately. For convenience, the following parts list is provided along with a representation of the items listed. Charges for replacement parts and shipping may apply.

For warranty replacements, proof of ownership and date of purchase is required.

Please call to receive a return authorization number before returning any grill components.

To order parts call toll free in the USA: **1-800-944-8982**

in Canada: **1-800-668-5323**

Model number cross reference: 6000 = VC0620P

8000 = VC0680P

8000N = VC0680N

Parts Enclosed

<i>quantity</i>	<i>description</i>	<i>part no.</i>
1	Main Hardware Bag	AM000505
1	Hardware Bag "A"	
4	1/4 x 20 x 3/4" Bolt	AM000105
4	1/4 x 20 Hex Keps Nut	AM000904
1	Hardware Bag "B"	
4	1/4 x 20 x 1" Bolt	AM000106
4	1/4 x 20 Hex Keps Nut	AM000904
1	Hardware Bag "C"	
8	1/4 x 20 x 3/4" Bolt	AM000105
8	1/4 x 20 Hex Keps Nut	AM000904
1	Hardware Bag "D"	
2	1/4 x 1-1/8" Hinge Pin	AM000908
2	Hairpin	AM000909
4	1/4 x 20 x 5/8" Bolt	AM000207
4	1/4 x 20 Hex Keps Nut	AM000904
2	Handle Gasket	AM000704

Parts Enclosed

<i>quantity</i>	<i>description</i>	<i>part no.</i>
2	Aluminum Side Tables	AX000505
1	Warming Rack	AF000303
1	Lid Handle	AP000102
2	Handle Standoff	AZ000802
1	Heat Shield	AI000204
1	Aluminum Drip Pan	AI000302

L.P. Gas Models only

1	L.P. Gas Cylinder	AW000202
1	Cylinder Retainer Wire	AF000402

Preassembled Components (see following pages)

1	Base Assembly
1	Pillar Assembly
1	Grill Bottom/Burner Assembly
1	Side Table Assemblies

Model 6000 Series Components

Model number reference: VC0620P

6000 Series Parts

quantity	description	part no.
1	Grill Lid	PX000105
1	Rock Grate	AF000203
1	Cast Iron Cooking Grid	AZ000104
1 pkg	Ceramic Briquettes	AQ000103



BOTTOM / BURNER ASSEMBLY

1	Bottom / Burner Assembly	
<i>consisting of:</i>		
1	Cast Brass Burner	AZ001504
1	Venturi Tube	AZ000505
1	Venturi Gasket	AM000503
8	#8-32 x 1/2" Screw	AM000603
1	Bottom Grill Casting	PX000205
1	Collector Box	AN000103
2	Collector Box Wire 8"	AN000203



PILLAR ASSEMBLY

1	Pillar Assembly	
<i>consisting of:</i>		
1	Aluminum Pillar (Green)	PXG00305
4	10-24 x 3/8" Screw	AM000203
1	Printed Control Plate	AI000103
2	10-24 x 1/2" Bolt	AM000103
1	LP Valve / Regulator / Hose	AL000104
1	Rotary Igniter Kit	AN000303
2	Control Knob	AZ000703
1	Ignitor Knob	AZ000603



Natural Gas Model only:

1	Natural Gas Valve / Hose	AL000204
<i>(Replaces LP HVR AL000104)</i>		

BASE ASSEMBLY

1	Base Assembly	
<i>consisting of:</i>		
1	ROC™ Base	AH000402
2	Locking Caster	AH000104
2	Non-Locking Caster	AH000105



Model 8000 Series Components

Model number reference: VC0680P and VC0680N

8000 Series Parts

quantity	description	part no.
1	Grill Lid	PX000104
1	Rock Grate	AF000202
2	Cast Iron Cooking Grids	AZ001600
1 pkg	Ceramic Briquettes	AQ000102



BOTTOM / BURNER ASSEMBLY

1	Bottom / Burner Assembly	
<i>consisting of:</i>		
1	Cast Brass Burner	AZ001503
1	Venturi Tube w/gasket	AZ000506
8	#8-32 x 1/2" Screw	AM000603
1	Bottom Grill Casting	PX000204
1	Collector Box	AN000103
2	Collector Box Wire 8"	AN000203



PILLAR ASSEMBLY

1	Pillar Assembly	
<i>consisting of:</i>		
1	Aluminum Pillar (Silver)	PXS00305
4	10-24 x 3/8" Screw	AM000203
1	Printed Control Plate	AI000103
2	10-24 x 1/2" Bolt	AM000103
1	LP Valve / Regulator / Hose	AL000104
1	Rotary Igniter Kit	AN000303
2	Control Knob	AZ000703
1	Igniter Knob	AZ000603



Natural Gas Model only:

1	Natural Gas Valve / Hose	AL000203
<i>(Replaces LP HVR AL000103)</i>		

BASE ASSEMBLY

1	Base Assembly	
<i>consisting of:</i>		
1	ROC™ Base	AH000402
2	Locking Caster	AH000104
2	Non-Locking Caster	AH000105



Gas Grill Troubleshooting Guide

During the course of using your grill, you may occasionally encounter some cases where you have questions as to how to keep your grill running properly. Following is a list of symptoms followed by the most commonly used solutions.

Please, if you have a problem with your grill, and you are attempting to remedy it by yourself using the following procedures, first read all warnings and safety precautions listed throughout the owner's manual.

For further assistance with operational and component issues, call our customer service center toll-free in the USA: 1-800-944-8982; in Canada: 1-800-668-5323

Burner Will Not Light

Cause:

- 1) Lack of fuel
- 2) Burner venturi clogged with spider webs or insect nest
- 3) Clogged or blocked orifices, burner ports, or regulator hose-to-tank connection
- 4) Igniter malfunction-
 - a. When rotating igniter knob no loud clicks are heard
 - b. Igniter clicks but no spark in collector box
 - c. Collector box rusted out or damaged
- 5) Burner venturi misaligned on orifices
- 6) Crimped fuel supply hose
- 7) Bad regulator or damaged hose

Corrective action:

- 1) For LP, be sure that the tank valve is turned on 1 to 1-1/2 turns. For natural gas, be sure the gas valve is turned on all the way.
- 2) Clean inside venturi tubes with a small wire brush or pipe cleaner
- 3) Clean with a straight pin or paper clip and blow out
- 4) a. Be sure igniter knob is fully seated (snapped into place) on stem and if still no clicks replace both the igniter knob and igniter
b. & c. Check wire connections and if still no spark replace collector box assembly
- 5) Position venturi over orifices properly
- 6) Straighten hose
- 7) Double check for proper and snug connections. Replace if necessary

Comments: An unsuccessful ignition is often experienced when a gust of flames occurs due to the grill being flooded with gas. This is a result of failure to follow the proper lighting instructions as explained in the owner's manual. The gas is left on for over the allowed 3 to 5 seconds before ignition and finally it ignites. If the grill fails to light with the igniter, use the match lighting instructions explained in the owner's manual.

Burner Won't Stay Lit

Cause:

- 1) Lack of fuel
- 2) Too cold or windy
- 3) Burner venturi misaligned on orifices
- 4) Burner venturi clogged with spider webs or insect nest

Corrective action:

- 1) Fill cylinder
- 2) Rotate grill to where the front faces the wind and turn control knobs on high
- 3) Position venturi over orifices properly
- 4) Clean inside venturi tubes with a small wire brush or pipe cleaner

Yellow Burner Flame

Cause:

- 1) Burner venturi clogged with spider webs or insect nest
- 2) Food particles, grease or seasonings on burner
- 3) Air in tank (before filling tank was not purged)
- 4) Burner venturi misaligned

Corrective action:

- 1) Clean inside venturi tubes with a small wire brush or pipe cleaner
- 2) Clean burner with safe solutions (see Cleaning section in owner's manual for details)
- 3) Use up LP tank (should improve with new tank)
- 4) Position venturi over orifices properly

Gas Grill Troubleshooting Guide - Continued

Grill Not Hot Enough or Uneven Heat

Cause:

- 1) Improper lighting procedure (if you look closely at the burner flames they'll be only 1/4" long on the high setting when they should be at least 1")
- 2) Burner venturi clogged with spider webs or insect nest
- 3) Clogged or blocked orifices, burner ports, or regulator hose-to-tank connection
- 4) Extreme cold or windy conditions
- 5) Burner venturi misaligned on orifices

Corrective action:

- 1) Shut everything off - both the tank and control knobs. Then turn only the tank on 1 1/2 turns followed by turning the control knobs on high
- 2) Clean inside venturi tubes with a small wire brush or pipe cleaner
- 3) Clean with a straight pin or paper clip and blow out
- 4) Rotate grill to where front is facing the wind and turn control knobs to a higher setting
- 5) Position venturi over orifices properly

Grill Gets Too Hot

Cause:

- 1) Grease flare up (caused by build up of grease from extra fatty food or excessive amounts of sauces or basting)
- 2) Cooking temperature too high
- 3) Malfunctioned regulator or damaged orifice

Corrective action:

- 1) Use leaner meat or add aluminum foil to the top of the cooking grid before applying meat. Also keep inside of grill and grease pan clean.
- 2) Turn control knobs to lower setting
- 3) Replace Hose Valve Regulator Assy. (HVR)

Humming or Whistling Sound (comes from liquid propane passing through the regulator)

Cause:

- 1) Tank overfilled or gas has expanded from getting hot during the day
- 2) Tank has been turned on it's side or upside down

Corrective action:

- 1) Have LP dealer bleed tank and if humming continues after use then replace HVR
- 2) Follow same steps as above

Note: The sound will usually cease during use and there is nothing to be concerned about. However, if it does not cease, and you smell gas, shut the grill and L.P. tank off immediately and follow the above listed corrective action.

Popping Sound or Loud "Poofs" (comes from erratic burner flame)

Cause:

- 1) Windy weather conditions
- 2) Improper lighting procedure (if you look closely at the burner flames they'll be only 1/4" long on the high setting when they should be at least 1")

Corrective action:

- 1) Rotate grill to where the front is facing the wind
- 2) Shut everything off - both the tank and control knobs. Then turn only the tank on 1 1/2 turns followed by turning the control knobs on high

Note: Replace damaged components only with factory authorized parts.

Outdoor Cooking

Recipes Chapter 4

BEEF

FLAVORFUL FLANK STEAK

1 beef flank steak (about 2 pounds)
3 tablespoons ketchup
1 tablespoon vegetable oil
1 tablespoon chopped onion
1 teaspoon brown sugar
1 teaspoon Worcestershire sauce
1 garlic clove, minced
1/8 teaspoon pepper

Place flank steak in an 11-in. x 7-in. x 2-in. glass dish. Combine remaining ingredients; pour over meat.

Cover and refrigerate for at least 4 hours. Remove meat, discarding marinade.

Grill over hot grill until meat reaches desired doneness, about 4 minutes per side for medium, 5 minutes per side for medium-well.

Slice into thin strips across the grain to serve.
Yield: 8 servings.

BETTER BURGERS

1 pound ground beef or turkey
4 teaspoons prepared horseradish
2 teaspoons Dijon mustard
1 teaspoon paprika
1/4 teaspoon pepper
1/8 teaspoon salt, optional
4 hamburger buns, split

In a bowl, combine the first six ingredients; mix well. Shape into four patties. Grill until desired doneness. Serve on buns.

Yield: 4 servings

DISAPPEARING SHISH KEBOBS

1/2 cup ketchup
1/2 cup sugar
1/2 cup soy sauce
1 teaspoon garlic powder
1 teaspoon ground ginger
2 pounds boneless beef sirloin steak
(1-1/2 inches thick),
cut into 1-1/2-inch cubes
1/2 fresh pineapple, trimmed and
cut into 1-inch chunks
2 to 3 small zucchini, cut into 1-inch chunks
1/2 pound whole fresh mushrooms
(medium size work best)
1/2 pound boiling onions, peeled
1 large green or sweet red pepper,
cut into 1-inch pieces

Combine first five ingredients; toss with beef. Cover and refrigerate overnight. Drain beef, reserving marinade. Thread meat, pineapple and vegetables alternately on long skewers.

Cook on a hot grill 15-20 minutes, turning often, or until meat reaches desired doneness and vegetables are tender.

Simmer the marinade in a small saucepan over low heat for 15 minutes. Remove meat and vegetables from skewers; serve with marinade.

Yield: 6-8 servings.

HINT: Soak wooden or bamboo skewers in water about a half hour prior to cooking.

POULTRY

GRILLED CHICKEN

1 broiler/fryer chicken
(3-1/2 to 4 pounds), quartered
1/4 cup vinegar
1/4 cup butter or margarine
1/4 cup water
1/4 teaspoon dried thyme
1/4 teaspoon oregano
1/4 teaspoon rosemary
1/4 teaspoon garlic powder
1/8 teaspoon salt
1/8 teaspoon pepper

Place chicken in a shallow glass dish. In a small saucepan, combine all remaining ingredients; bring to a gentle boil. Remove from the heat. Pour over chicken. Cover and refrigerate for 4 hours, turning once. Drain and discard marinade. Grill chicken, covered, over medium heat for 30-40 minutes or until juices run clear. **Yield:** 4 servings.

TASTY TURKEY

1/4 cup soy sauce
1/4 cup vegetable oil
1/4 cup apple juice
2 tablespoons lemon juice
2 tablespoons dried minced onion
1 teaspoon vanilla extract
1/4 teaspoon ground ginger
Dash of garlic powder
Dash of pepper
2 turkey breast tenderloins
(about 1/2 pound each)

In a large resealable plastic bag or shallow glass dish, combine the soy sauce, oil, apple juice, lemon juice, onion, vanilla, garlic powder and pepper. Add turkey; seal or cover and refrigerate for at least 2 hours. Discard marinade. Grill turkey, covered, over medium heat for 8-10 minutes per side or until juices run clear. **Yield:** 4 servings.

PORK

BEST PORK RIBS

3 pounds country-style pork ribs
1/2 teaspoon garlic salt
1/2 teaspoon pepper
1 cup ketchup
1/2 cup packed brown sugar
1/2 cup honey
1/4 cup spicy brown mustard
2 tablespoons Worcestershire sauce
1-1/2 teaspoons liquid smoke, optional

Place ribs in a large kettle or Dutch oven; sprinkle with garlic salt and pepper. Add enough water to cover. Cook on your kitchen stove and bring to a boil. Reduce heat; cover and simmer for 1 hour or until juices run clear and ribs are tender; drain. Meanwhile, combine the remaining ingredients. Remove ribs from kettle to barbecue the ribs. Grill ribs, uncovered, over medium heat for 10-12 minutes, basting with sauce and turning occasionally. **Yield:** 4 servings.

HMM - HMM HAM STEAK

1-pound ham steak, 1/2 inch thick
1 tablespoon Dijon mustard
1 tablespoon honey
1 tablespoon apricot preserves

Cut outer edge of fat on ham diagonally at 1-inch intervals to prevent curling (do not cut into ham). Mix mustard, honey and preserves. Grill ham uncovered 4 to 6 inches from medium-high heat 4 minutes. Turn ham; brush with mustard mixture. Grill 4 minutes longer. Turn ham; brush with remaining mustard mixture. Grill about 2 minutes longer or until heated through. **Yield:** 4 servings.

GRILLED HAM & SWISS SANDWICHES

1/4 cup butter, softened
2 tablespoons horseradish mustard
2 tablespoons chopped onion
2 tablespoons poppy seed
6 ounces thinly sliced ham
6 ounces sliced Swiss cheese
6 sandwich buns

Mix butter, mustard, onion and poppy seed. Spread mixture on both halves of each bun; layer a slice of Swiss cheese and several ham slices between halves. Wrap each sandwich in foil and grill for 20 minutes. Serve warm. **Yield:** 6 servings.

FISH / SEAFOOD

SHRIMP COMBO PACKETS

4 cups peeled potatoes (about 1-1/4 lbs.), sliced 1/8-inch thick
1 cup sliced leeks or mild onions
1 cup chopped plum tomatoes
20 jumbo shrimp (about 1 lb.)
peeled and deveined
4 Tablespoon butter
2 teaspoon dill weed, crushed
1 teaspoon garlic powder
1 teaspoon salt
1/2 teaspoon ground black pepper

On work surface, place 4 sheets of heavy-duty or doubled aluminum foil each about 20 inches long. In the center of each, arrange 1/2 cup potatoes, overlapping slightly; top with 1/4 cup each leeks and tomatoes and 5 shrimp.

Dot with 1 tablespoon butter; sprinkle with 1/2 teaspoon dill weed, 1/4 teaspoon garlic powder, 1/4 teaspoon salt and 1/8 teaspoon black pepper. Arrange remaining potatoes over shrimp, overlapping slightly.

Bring long sides of foil together over mixture, allowing space for heat circulation and expansion; fold down to seal. Fold up short ends; crimp to seal. Place on grill. Cook until potatoes are tender and shrimp are cooked, approximately 20 minutes on the grill. Carefully lift pouch from grill and place in serving dish. Open carefully, allowing steam to escape. **Yield:** 4 servings.

SUPER SALMON

1-1/2 cups packed brown sugar
6 tablespoons butter or margarine, melted
3 to 6 tablespoons lemon juice
2-1/4 teaspoons dill weed
3/4 teaspoon cayenne pepper
1 salmon fillet (about 2 pounds)
Lemon-pepper seasoning

In a small bowl, combine the first five ingredients; mix well. Remove 1/2 cup to a saucepan; simmer until heated through. Set aside remaining mixture for basting. Sprinkle salmon with lemon-pepper. Place on grill with skin side down. Grill, covered, over medium heat for 5 minutes. Brush with the reserved brown sugar mixture. Grill 10-15 minutes longer, basting occasionally. Serve with the warmed sauce. **Yield:** 6-8 servings.

SIDE DISHES

RICE ON THE SIDE

1-1/3 cups uncooked instant rice
1/3 cup sliced fresh mushrooms
1/4 cup chopped green pepper
1/4 cup chopped onion
1/2 cup chicken broth
1/2 cup water
1/3 cup ketchup
1 tablespoon butter or margarine

In a 9-in. round aluminum foil pie pan, combine the first seven ingredients. Dot with butter. Cover with heavy-duty foil; seal edges tightly. Grill, covered, for 14 to 15 minutes or until liquid is absorbed. Fluff with a fork and serve immediately. **Yield:** 6 servings

AU GRATIN POTATO POUCHES

4 cups frozen O'Brien potatoes (16 ounces)
1 tablespoon vegetable oil
1/2 teaspoon seasoned salt
3/4 cup shredded Cheddar cheese (3 ounces)

Spray 18x13-inch foil with piece of heavy-duty aluminum foil with cooking spray. Place potatoes on foil. Drizzle with oil; sprinkle with seasoned salt. Wrap foil securely around potatoes. Grill on medium heat 30 minutes, turning once. Carefully open packet; sprinkle cheese over potatoes. Cover loosely and let stand for 4 to 5 minutes or until cheese is melted. **Yield:** 6 servings.

GRILLED BREADS

1 One pound loaf frozen bread dough, white or honey wheat, thawed
2 tablespoons olive oil

Suggested Toppings for bread:

Sliced fresh tomatoes with basil and grated Fontina cheese, OR Grilled onions, OR Fresh herbs and garlic, OR Grated Parmesan cheese and garlic, OR pizza sauce with grated mozzarella cheese and sliced olives, OR feta cheese and black olives

Divide dough into 4 equal pieces. Flatten each into a 6-inch round. Brush one side of each round with oil. Place oiled-side down on an oiled grid at medium heat. Cover and cook until browned and firm, about 5 minutes. Brush tops with oil; turn breads over. Top cooked side of bread with a suggested topping. **Yield:** 4 servings.

VEGETABLES

ONION BLOOM

- 1 Bermuda onion**
- 1 tablespoon butter**
- 2 teaspoons honey**
- 1/2 teaspoon Worcestershire sauce**

Peel onion; cut 1/2 -inch slice from top of onion and leave root end. Cut onion from top into 8 wedges to within 1/2-inch of root end. Gently pull wedges apart. Brush 12-inch square of heavy-duty aluminum foil with vegetable oil. Place onion on square; loosely shape foil around onion. Sprinkle onion with butter, honey and Worcestershire sauce. Wrap foil securely around onion. Cover and grill onion at medium heat 50 - 60 minutes or until very tender.

Yield: 1 serving.

VEGETABLES ON A STICK

- 2 medium zucchini, cut into 1-inch slices**
- 2 medium yellow summer squash, cut into 1-inch slices**
- 1/2 pound whole fresh mushrooms**
- 1/3 cup olive or vegetable oil**
- 2 tablespoons lemon juice**
- 1-1/2 teaspoons dried basil**
- 1-1/2 teaspoons dried parsley flakes**
- 3/4 teaspoon garlic powder**
- 3/4 teaspoon dried oregano**
- 1/2 teaspoon salt**
- 1/8 teaspoon pepper**

On skewers, alternately thread zucchini, yellow squash and mushrooms. In a bowl, combine the remaining ingredients. Brush some of the mixture over vegetables. Grill, uncovered, over medium heat for 10-15 minutes or until vegetables are tender, turning and basting occasionally with herb mixture.

Yield: 4 servings.

HOW TO GRILL FROZEN VEGETABLES

Tear off a 36x18-inch piece of heavy duty foil. Fold in half to make an 18-inch square. Fold up sides, using your fist to form a pouch. Place one 10-ounce package frozen vegetables in center of pouch. Season with salt and pepper; top with a pat of butter or margarine. Fold edges of foil to sea] pouch securely, leaving space for expansion of steam. Grill over medium-hot until vegetables are cooked. Allow about 20 minutes for peas and other small vegetables; allow more time for larger vegetables. Turn the package of vegetables frequently.

DESSERTS

CINNAMON APPLES

- 4 medium tart apples, cored**
- 4 teaspoons brown sugar**
- 1/4 cup red-hot candies**
- Vanilla ice cream, optional**

Place each apple in the center of a piece of heavy duty foil (12 in. square). Spoon 1 teaspoon sugar and 1 tablespoon red-hots into the center of each apple. Fold foil around apple and seal tightly. Grill, covered, over medium-hot heat for 30 minutes or until apples are tender. Carefully transfer apples and syrup to bowls. Serve warm with ice cream if desired.

Yield: 4 servings.

SUMMER MEDLEY

- 3 medium ripe peaches, halved and pitted**
- 1 cup fresh blueberries**
- 2 tablespoons brown sugar**
- 2 tablespoons butter or margarine**
- 1 tablespoon lemon juice**

Place each peach half, cut side up, on a double thickness of heavy duty foil (12 in. square). Sprinkle each with about 2 tablespoons blueberries, 1 teaspoon of brown sugar, 1 teaspoon butter and 1/2 teaspoon lemon juice. Fold foil around the peaches and seal tightly. Grill, covered, over medium-low heat for 18-20 minutes or until the peaches are tender.

Yield: 3 servings.

MEXICAN SMORES

- 1/2 cup creamy peanut butter**
- 4 flour tortillas (8 inches)**
- 1 cup miniature marshmallows**
- 1/2 cup miniature semisweet chocolate chips**
- Vanilla ice cream**

Spread 2 tablespoons of peanut butter on each tortilla. Sprinkle 1/4 cup marshmallows and 2 tablespoons chocolate chips on half of each tortilla. Roll up, beginning with the topping side. Wrap each tortilla in heavy-duty foil; seal tightly. Grill, covered, over low heat for 5-10 minutes or until heated through. Unwrap tortillas and place on dessert plates. Serve with ice cream.

Yield: 4 servings.

Manufacturer's Limited Warranty

The Vermont Castings grill is guaranteed against broken or damaged parts at the time of purchase. Components are guaranteed against defect as follows: All cast-aluminum parts are warranted against burn through, rust, and structural failure excluding paint, neglect, or abuse, for 75 years from the date of purchase. The cast-brass burner (only) has a limited warranty of 25 years from date of purchase. If the burner should fail to operate during the warranty period, Vermont Castings will prorate the cost of a replacement burner. (Pro-rated consumer cost for burner replacement: up to 5 years - free replacement; 6 to 10 years - 20% of replacement cost; 11 to 15 years - 40% of replacement cost; 16 to 20 years - 60% of replacement cost; 21 to 25 years - 80% of replacement cost) All other parts carry a 5-year limited warranty, except paint, which is guaranteed to be free of defects for 90 days. L.P. cylinders (on propane models only) are warranted by the cylinder manufacturer.

This warranty is void if the grill collar, heat shield and heat gaskets are removed from the grill. This warranty does not cover damage or issues related to neglect, abuse, or modifications to the product. Repair labor costs are the responsibility of the consumer.

All parts that meet the warranty requirement will be shipped at no-charge via the discretion of the Customer Service Department (ground shipments, US Mail, or Parcel Post ONLY). Any Special handling charges (i.e. Second Day, Overnight, etc.) will be the responsibility of the consumer.

All warranty claims apply only to the original purchaser and require a proof of purchase verifying purchase date. Do not return parts to our address without first obtaining a return authorization number from our customer service. This service is available by calling toll free in the USA: 1-800-944-8982; in Canada: 1-800-668-5323

This warranty may give you specific legal rights that vary by state.



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Patents Pending
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