

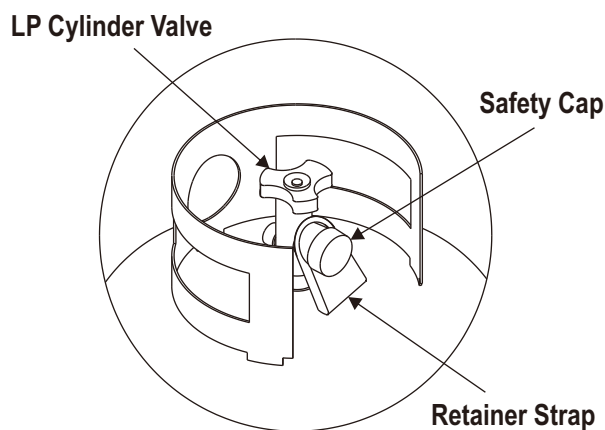
Installation Safety Precautions

- Use grill, as purchased, only with LP (propane) gas and the regulator/valve assembly supplied.
- Grill installation must conform with local codes, or in their absence of local codes, with either the *National Fuel Gas Code*, *ANSI Z223.1/ NFPA 54*, *Natural Gas and Propane Installation Code*, *CSA B149.1*, or *Propane Storage and Handling Code*, *B149.2*.
- All electrical accessories (such as rotisserie) must be electrically grounded in accordance with local codes, or *National Electrical Code*, *ANSI / NFPA 70* or *Canadian Electrical Code*, *CSA C22.1*. Keep any electrical cords and/or fuel supply hoses away from any hot surfaces.
- This grill is safety certified for use in the United States and/or Canada only. Do not modify for use in any other location. Modification will result in a safety hazard.

USE AND CARE

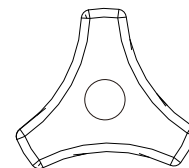
LP Cylinder Removal, Transport and Storage

- Turn OFF all control knobs and LP cylinder valve. Turn coupling nut counterclockwise by hand only - do not use tools to disconnect. Loosen cylinder screw beneath bottom shelf or disconnect other retention means, then lift LP cylinder up and out of cart. Install safety cap onto LP cylinder valve. Always use cap and strap supplied with valve. **Failure to use safety cap as directed may result in serious personal injury and/or property damage.**
- A disconnected LP cylinder in storage or being transported must have a safety cap installed (as shown). Do not store an LP cylinder in enclosed spaces such as a carport, garage, porch, covered patio or other building. Never leave an LP cylinder inside a vehicle which may become overheated by the sun.
- Do not store an LP cylinder in an area where children play.



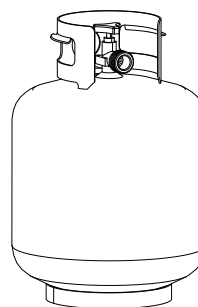
LP Cylinder

- The LP cylinder used with your grill must meet the following requirements:**
- Use LP cylinders only with these required measurements: 12" (30.5cm) (diameter) x 18" (45.7 cm) (tall) with 20 lb. (9 kg.) capacity maximum.
- LP cylinders must be constructed and marked in accordance with specifications for LP cylinders of the U.S. Department of Transportation (DOT) or for Canada, CAN/CSA-B339, cylinders, spheres and tubes for transportation of dangerous goods, Transport Canada (TC). See LP cylinder collar for marking.
- LP cylinder valve must have:
 - Type 1 outlet compatible with regulator or grill.
 - Safety relief valve.
- UL listed Overfill Protection Device (OPD). This OPD safety feature is identified by a unique triangular hand wheel. **Use only LP cylinders equipped with this type of valve.**



OPD Hand Wheel

- LP cylinder must be upright for vapor withdrawal and include collar to protect LP cylinder valve. Always keep LP cylinders in upright position during use, transit or storage.



LP cylinder in upright position for vapor withdrawal

LP (Liquefied Petroleum Gas)

- LP gas is nontoxic, odorless and colorless when produced. **For Your Safety**, LP gas has been given an odor (similar to rotten cabbage) so that it can be smelled.
- LP gas is highly flammable and may ignite unexpectedly when mixed with air.

LP Cylinder Filling

- Use only licensed and experienced dealers.
- LP dealer **must purge new cylinder** before filling.
- Dealer should **NEVER** fill LP cylinder more than 80% of LP cylinder volume. Volume of propane in cylinder will vary by temperature.
- A frosty regulator indicates gas overfill. Immediately close LP cylinder valve and call local LP gas dealer for assistance.
- Do not release liquid propane (LP) gas into the atmosphere. This is a hazardous practice.
- To remove gas from LP cylinder, contact an LP dealer or call a local fire department for assistance. Check the telephone directory under "Gas Companies" for nearest certified LP dealers.

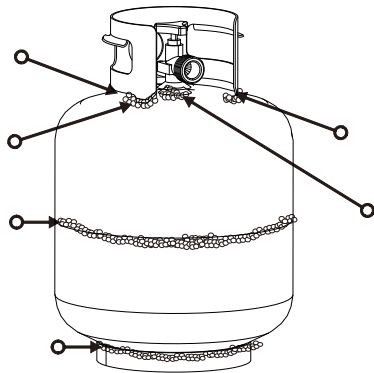
LP Cylinder Exchange

- Many retailers that sell grills offer you the option of replacing your empty LP cylinder through an exchange service. Use only those reputable exchange companies that inspect, precision fill, test and certify their cylinders. **Exchange your cylinder only for an OPD safety feature-equipped cylinder as described in the "LP Cylinder" section of this manual.**
- Always keep new and exchanged LP cylinders in upright position during use, transit or storage.
- Leak test new and exchanged LP cylinders BEFORE connecting to grill.**
- Place safety cap on cylinder valve outlet whenever the cylinder is not in use. Only install the type of safety cap on the cylinder valve outlet that is provided with the cylinder valve. Other types of caps or plugs may result in leakage of propane.

LP Cylinder Leak Test

For your safety

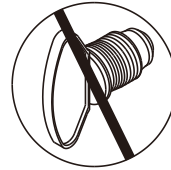
- Leak test must be repeated each time LP cylinder is exchanged or refilled.
- Do not smoke during leak test.
- Do not use an open flame to check for gas leaks.
- Grill must be leak tested outdoors in a well-ventilated area, away from ignition sources such as gas fired or electrical appliances. During leak test, keep grill away from open flames or sparks.
- Use a clean paintbrush and a 50/50 mild soap and water solution. Brush soapy solution onto areas indicated by arrows in figure below.
- Do not use household cleaning agents.** Damage to gas train components can result.



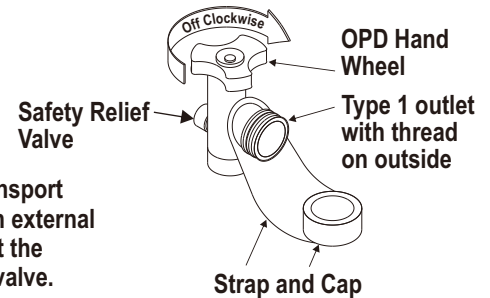
	WARNING	
If "growing" bubbles appear, do not use or move the LP cylinder. Contact an LP gas supplier or your fire department!		

Connecting Regulator to the LP Cylinder

- LP cylinder must be properly secured onto grill. (Refer to assembly section.)
- Turn all control knobs to the OFF position.
- Turn LP cylinder OFF by turning hand-wheel clockwise to a **full stop**.
- Remove the safety cap from LP cylinder valve. Always use cap and strap if supplied with valve.

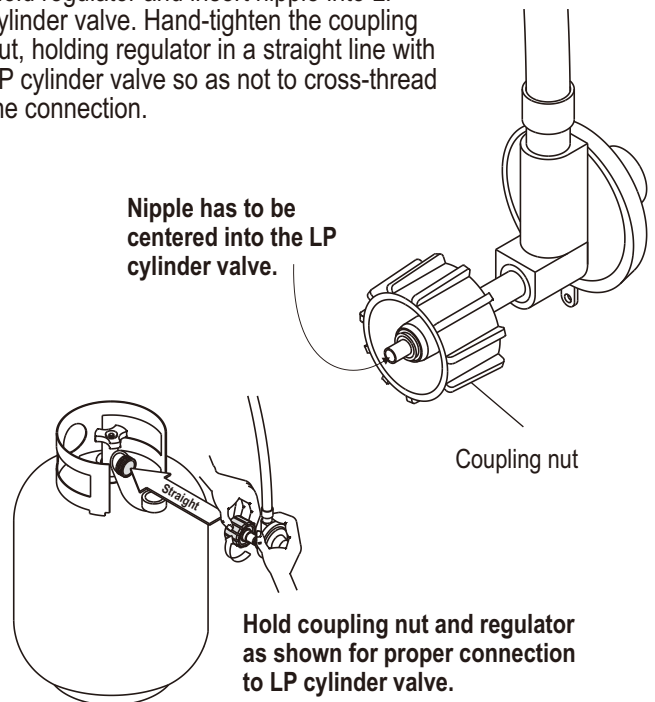


Do not use a POL transport plug (plastic part with external threads)! It will defeat the safety feature of the valve.



- Hold regulator and insert nipple into LP cylinder valve. Hand-tighten the coupling nut, holding regulator in a straight line with LP cylinder valve so as not to cross-thread the connection.

Nipple has to be centered into the LP cylinder valve.





- Turn the coupling nut clockwise and tighten to a full stop. The regulator will seal on the back-check feature in the LP cylinder valve, resulting in some resistance. **An additional one-half to three-quarters turn is required to complete the connection. Tighten by hand only – do not use tools.**

NOTE:

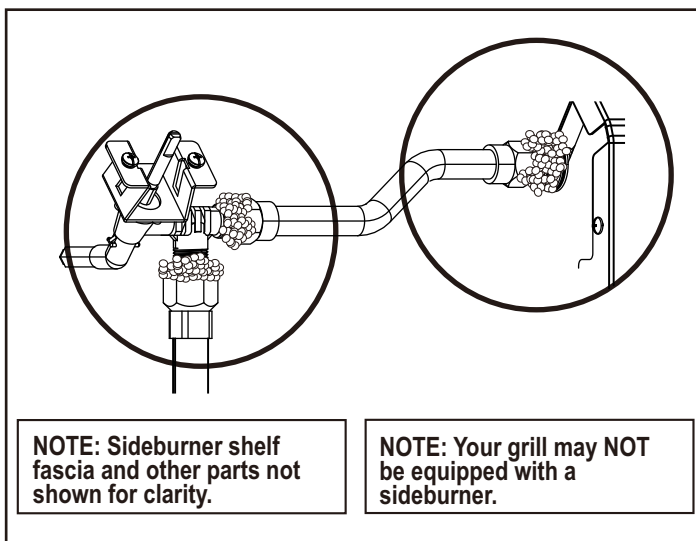
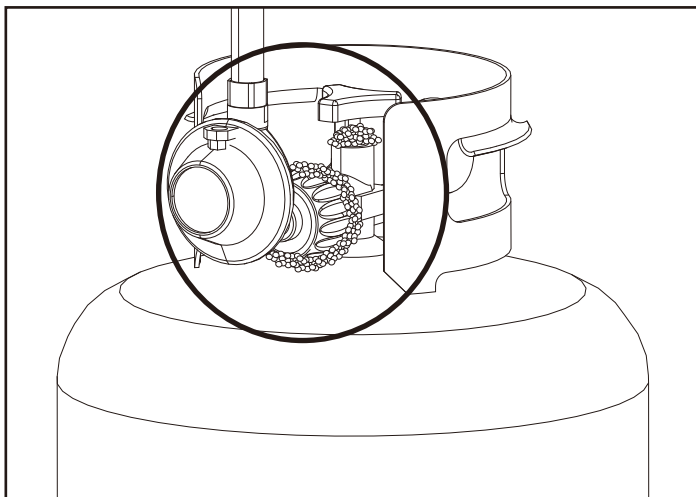
If you cannot complete the connection, disconnect regulator and repeat steps 5 and 6. If you are still unable to complete the connection, **do not use this regulator!**

	DANGER	
<ul style="list-style-type: none">Do not insert any tool or foreign object into the valve outlet or safety relief valve. You may damage the valve and cause a leak. Leaking propane may result in explosion, fire, severe personal injury, or death.		



	WARNING	
<ul style="list-style-type: none"> Do not use grill until leak-tested. If a leak is detected at any time, STOP! Turn off gas at source and correct leak. If you cannot stop a gas leak by closing the LP cylinder valve leave area and call your fire department! 		

Leak Testing Valves, Hose and Regulator

1. Turn all grill control knobs to OFF.
2. Be sure regulator is tightly connected to LP cylinder.
3. Plug in power cord and turn on Control Panel.
4. Completely open LP cylinder valve by turning hand wheel counterclockwise. If you hear a *rushing sound*, turn gas off immediately. There is a major leak at the connection. **Correct before proceeding.**
5. Brush soapy solution onto areas circled below, or other similar fittings on your grill.



6. If “growing” bubbles appear, there is a leak. Close LP cylinder valve immediately and retighten connections. **If leaks cannot be stopped do not try to repair.** Call for replacement parts.
7. Always close LP cylinder valve after performing leak test by turning hand wheel clockwise.

	WARNING	
<ul style="list-style-type: none"> Outdoor gas appliance is not intended to be installed in or on a boat. Outdoor gas appliance is not intended to be installed in or on an RV. Never attempt to attach this grill to the self-contained LP gas system of a camper trailer or motor home. 		

Safety Tips

- Before opening LP cylinder valve, check the coupling nut for tightness.
- When grill is not in use, turn off all control knobs, LP cylinder valve and unplug power cord.
- Never move grill while in operation or still hot.
- Some surfaces will be hot during use. Use long-handled barbecue utensils and oven mitts to avoid burns and splatters.
- Maximum load for sideburner and side shelf is 10 lbs.
- The grease tray or cup **must** be installed during use and emptied after each use. Do not remove grease tray or cup until grill has completely cooled.
- Clean grill often, preferably after each cookout. If a bristle brush is used to clean any of the grill cooking surfaces, ensure no loose bristles remain on cooking surfaces prior to grilling. It is not recommended to clean cooking surfaces while grill is hot.
- If you notice grease or other hot material dripping from grill onto valve, hose or regulator, turn off gas supply at once. Determine the cause, correct it, then clean and inspect valve, hose and regulator before continuing. Perform a leak test.
- Keep ventilation openings in cylinder enclosure (grill cart) free and clear of debris.
- Do not store objects or materials inside the grill cart enclosure that would block the flow of combustion air to the underside of either the control panel or the firebox bowl.
- The regulator may make a humming or whistling noise during operation. This will not affect safety or use of grill.
- If you have a grill problem see the “Troubleshooting” Section or visit charbroil.com/smartchefgrill.
- If the regulator frosts, turn off grill and LP cylinder valve immediately. This indicates a problem with the cylinder and it should not be used on any product. Return to supplier!

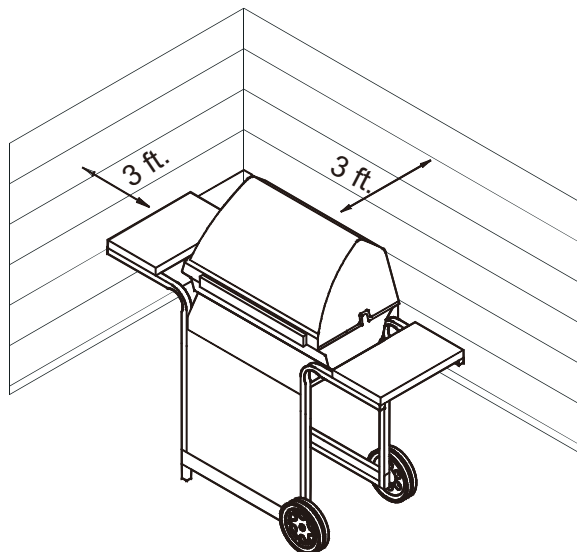


WARNING



For Safe Use of Your Grill and to Avoid Serious Injury:

- Do not let children operate or play near grill.
- Keep grill area clear and free from materials that burn.
- Do not block holes in sides or back of grill.
- Check burner flames regularly.
- Use grill only in well-ventilated space. NEVER use in enclosed space such as carport, garage, porch, covered patio, or under an overhead structure of any kind.
- Do not use charcoal or ceramic briquets in a gas grill.
- Do not cover grates with aluminum foil or any other material. This will block burner ventilation and create a potentially dangerous condition resulting in property damage and/or personal injury.
- **Use grill at least 3 ft. from any wall or surface.** Maintain 10 ft. clearance to objects that can catch fire or sources of ignition such as pilot lights on water heaters, live electrical appliances, etc.



- **NEVER attempt to light or re-light burner with lid closed.** A buildup of non-ignited gas inside a closed grill is hazardous.
- **Never operate grill with LP cylinder out of correct position specified in assembly instructions.**
- **Always close LP cylinder valve and remove coupling nut before moving LP cylinder from specified operation position.**
- **Apartment Dwellers:**
Check with management to learn the requirements and fire codes for using an LP gas grill in your apartment complex. If allowed, use outside on the ground floor with a three (3) foot clearance from walls or rails. Do not use on or under balconies.

Ignitor Lighting

- **Do not lean over grill while lighting.**
1. Turn gas burner control valves to ○ (OFF).
 2. Plug in power cord. Press power button to turn ON Control Panel.
 3. Open lid during lighting or re-lighting.
 4. Turn ON gas at LP cylinder.
 5. To ignite, push and turn burner knob to 🔥 HIGH. Immediately, push and hold ELECTRONIC IGNITION button until the burner lights.
 6. If ignition does NOT occur in 5 seconds, turn the burner controls OFF ○, wait 5 minutes and repeat the lighting procedure. If ignitor does not work, follow match lighting instructions in manual.
 7. Repeat steps 4 and 5 to light other main burners.



WARNING



Turn controls and gas source or tank OFF when not in use.



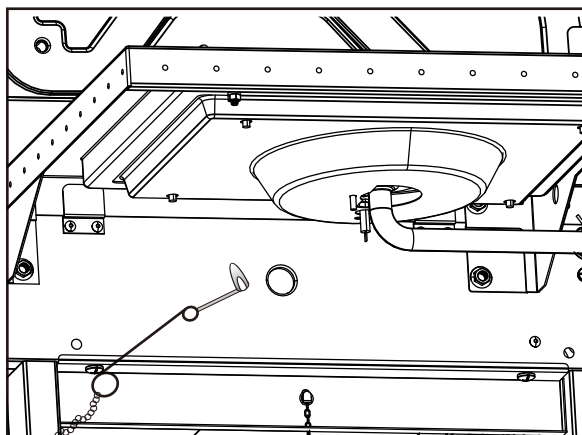
CAUTION



If ignition does NOT occur in 5 seconds, turn the burner controls ○ OFF, wait 5 minutes and repeat the lighting procedure. If the burner does not ignite with the valve open, gas will continue to flow out of the burner and could accidentally ignite with risk of injury.

Match-Lighting

- **Do not lean over grill while lighting.**
1. Turn gas burner control valves to ○ (OFF).
 2. Plug in power cord. Press power button to turn ON Control Panel.
 3. Open lid during lighting or re-lighting.
 4. Turn ON gas at LP cylinder.
 5. Place match into match holder (hanging from side panel of grill). Light match; then light burner by placing match through the match light hole on side of grill. Immediately push in and turn burner knob to the 🔥 HIGH position. Be sure burner lights and stays lit.
 6. Light adjacent burners in sequence by pushing knobs in and turning to the 🔥 HIGH position.

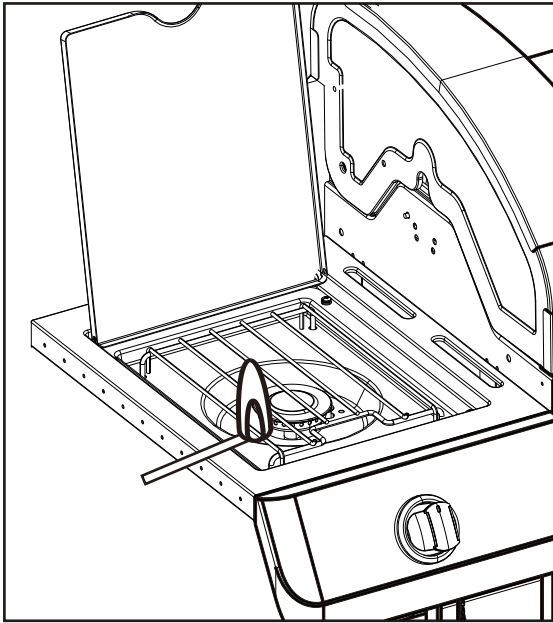


Side Burner lighting instructions

- **Do not lean over grill while lighting.**
1. Turn gas burner control valves to ○ (OFF).
 2. Open lid during lighting or re-lighting.
 3. Turn ON gas at LP cylinder.
 4. To ignite, push and turn burner knob to 🔥 HIGH. Immediately, push and hold ELECTRONIC IGNITION button until the burner lights.
 5. If ignition does NOT occur in 5 seconds, turn the burner controls OFF ○, wait 5 minutes and repeat the lighting procedure. If ignitor does not work, follow match lighting instructions in manual.

Sideburner Match Lighting

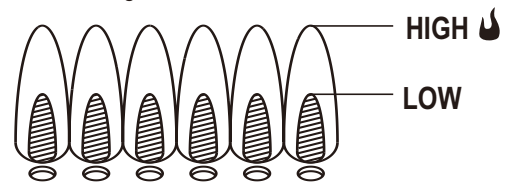
- **Do not lean over grill while lighting.**
1. Turn gas burner control valves to ○ (OFF).
 2. Open lid during lighting or re-lighting.
 3. Turn ON gas at LP cylinder.
 4. Place lit match near burner. Immediately turn sideburner knob to the 🔥 HIGH position. Be sure burner lights and stays lit.



	CAUTION	
<ul style="list-style-type: none">• Putting out grease fires by closing the lid is not possible. Grills are well ventilated for safety reasons.• Do not use water on a grease fire. Personal injury may result. If a grease fire develops, turn knobs and LP cylinder off.• Do not leave grill unattended while preheating or burning off food residue on HI. If grill has not been regularly cleaned, a grease fire can occur that may damage the product.		

Burner Flame Check

- Remove cooking grates and heat tents. Light burners, rotate knobs from HIGH to LOW. You should see a smaller flame in LOW position than seen on HIGH. Perform burner flame check on side burner, also. Always check flame prior to each use. If only low flame is seen refer to "Sudden drop or low flame" in the *Troubleshooting* Section.



Turning Grill Off

- Turn all knobs to the ○ OFF position. Turn LP cylinder off by turning hand-wheel clockwise to a full stop. Unplug power cord.

Ignitor Check

- **Turn gas off at LP cylinder.** Press and hold electronic ignitor button. "Click" should be heard and spark seen each time in each collector box or between burner and electrode. See "Troubleshooting" if no click or spark.

Valve Check

- **Important: Make sure gas is off at LP cylinder before checking valves.** Knobs lock in OFF position. To check valves, first push in knobs and release, knobs should spring back. If knobs do not spring back, replace valve assembly before using grill. Turn knobs to LOW position then turn back to OFF position. Valves should turn smoothly.

Hose Check

- Before each use, check to see if hoses are cut or worn or kinked. Replace damaged hoses before using grill. Use only valve/hose/regulator specified by manufacturer.

Storing Your Grill

- Clean cooking grates.
- Store in dry location.
- When LP cylinder is connected to grill, store outdoors in a well-ventilated space and out of reach of children.
- Cover grill if stored outdoors. Choose from a variety of grill covers offered by Char-Broil at charbroil.com.
- Store grill indoors ONLY if LP cylinder is turned off and disconnected, removed from grill and stored outdoors.
- When removing grill from storage, follow "Cleaning the Burner Assembly" instructions before starting grill.

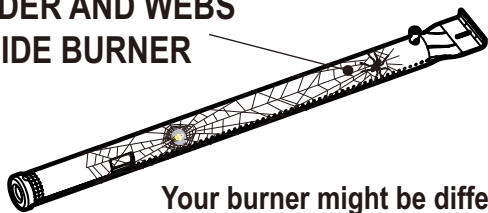


CAUTION



SPIDER ALERT!

SPIDER AND WEBS INSIDE BURNER



Your burner might be different

If your grill is getting hard to light or the flame is weak, check and clean the venturis and burners.

Spiders or small insects are known to create "flashback" problems by building nests and laying eggs in the grill's venturi or burner, obstructing the flow of gas. The back-up gas can ignite behind the control panel. This flashback can damage your grill and cause injury. To prevent flashbacks and ensure good performance the burner and venturi tube assembly should be removed and cleaned when ever the grill has been idle for an extended period of time.

General Grill Cleaning

- Do not mistake brown or black accumulation of grease and smoke for paint. Interiors of gas grills are not painted at the factory (**and should never be painted**). Apply a strong solution of detergent and water or use a grill cleaner with scrub brush on insides of grill lid and bottom. Rinse and allow to completely air dry. **Do not apply a caustic grill/oven cleaner to painted surfaces.**
- **Plastic parts:** Wash with warm soapy water and wipe dry.
 - Do not use citrisol, abrasive cleaners, degreasers or a concentrated grill cleaner on plastic parts. Damage to and failure of parts can result.
- **Porcelain surfaces:** Because of glass-like composition, most residue can be wiped away with baking soda/water solution or specially formulated cleaner. Use nonabrasive scouring powder for stubborn stains.
- **Painted surfaces:** Wash with mild detergent or nonabrasive cleaner and warm soapy water. Wipe dry with a soft nonabrasive cloth.
- **Cooking surfaces:** If a bristle brush is used to clean any of the grill cooking surfaces, ensure no loose bristles remain on cooking surfaces prior to grilling. It is NOT recommended to clean cooking surfaces while grill is hot.
- **Food probe:** Not dishwasher safe. Do not immerse or soak in water. Wash with warm soapy water and wipe dry.

Cleaning the Burner Assembly

Follow these instructions to clean and/or replace parts of burner assembly or if you have trouble igniting grill.

1. Turn gas off at control knobs and LP cylinder.
2. Remove cooking grates and heat tents.
3. Remove carryover tubes and hardware securing burners.
4. Detach electrode from burner.

NOTE: Removal/Detachment method will depend on the burner configuration. See different configurations in illustrations below.
5. Carefully lift each burner up and away from valve openings.

We suggest three ways to clean the burner tubes. Use the one easiest for you.

- (A) Bend a stiff wire (a light weight coat hanger works well) into a small hook. Run the hook through each burner tube several times.



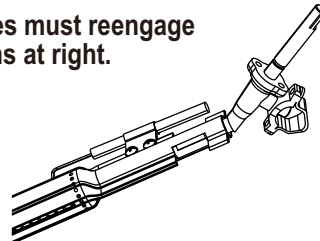
- (B) Use a narrow bottle brush with a flexible handle (do not use a brass wire brush). Run the brush through each burner tube several times.

- (C) **Wear eye protection:** Use an air hose to force air into the burner tube and out the burner ports. Check each port to make sure air comes out each hole.

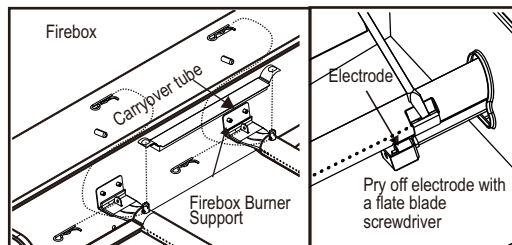
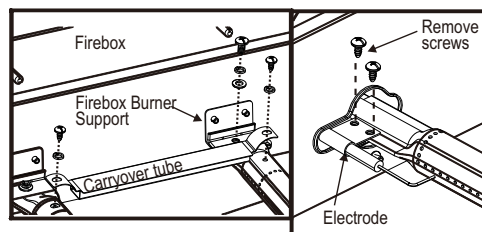
6. Wire brush entire outer surface of burner to remove food residue and dirt.
7. Clean any blocked ports with a stiff wire such as an open paper clip.
8. Check burner for damage due to normal wear and corrosion, some holes may become enlarged. If any large cracks or holes are found, replace burner.

VERY IMPORTANT: Burner tubes must reengage valve openings. See illustrations at right.

Correct burner-to-valve engagement



9. Attach electrode to burner.
10. Carefully replace burners.
11. Attach burners to brackets on firebox.
12. Reposition carryover tubes and attach to burners. Replace heat tents and cooking grates.
13. Before cooking again on grill, perform a "Leak Test" and "Burner Flame Check".



SmartChef Operating Instructions

***The following instructions apply to the main burners only.
The side burner is not controlled by the SmartChef system.***

Manual Operation:

Your grill may be operated as a conventional grill. No interaction with the SmartChef control panel is necessary to operate in this mode. After lighting your grill, turn your burner valve control knobs to the desired setting to begin your cook. While in manual operation, you may still monitor the following features through your Char-Broil app:

- 1) Burner flame status – your Char-Broil app will indicate whether there is a flame present at each burner. At the grill, LED lights around each knob will illuminate when there is flame present. If there is no flame at all 3 burners for 30 seconds or at a single burner for 2 minutes, the grill will shutdown to prevent unburned gas from continuing to flow. ALL knobs must then be turned to the OFF position and lighting instructions followed in order to restart grill.
- 2) Meat Probe temperatures – your Char-Broil app will display the temperatures of up to two meat probes. Insert probe into center of meat for most accurate temperature.
- 3) Grill Temperature – your Char-Broil app will display the current grill temperature.
- 4) Tank level – your Char-Broil app will notify you when your tank level is low.

Controlled Operation:

To preheat and/or cook at a specified temperature:

- 1) Light grill per lighting instructions.
- 2) Turn all main burner control knobs to High position.
- 3) Press Control Start/Stop Button on SmartChef Control Panel located on grill. Light ring will indicate controlled operation.
- 4) In the Char-Broil app, set your desired temperature. Your grill will maintain this temperature throughout the cook. Temperature may be adjusted within the app at any time.
- 5) To change to manual operation after a controlled preheat, press and hold (2 seconds) the Control Start/Stop Button on the SmartChef Control Panel, then adjust burner control knobs as desired. If any burner control knob is turned away from High prior to pressing the Control Start/Stop button, a notification will alert you to press and hold the button on the SmartChef Control Panel. If the button is not pushed, the grill will shutdown to ensure your food is not unintentionally overcooked.

To follow a cook profile (controlled cook/recipe):

- 1) Light grill per lighting instructions.
- 2) Turn all main burner control knobs to High position.
- 3) Press Control Start/Stop Button on SmartChef Control Panel located on grill. Light ring will indicate controlled operation.
- 4) In the Char-Broil app,
 - a. Choose your desired food.
 - b. Select your foods attributes, e.g. weight, cut, etc..
 - c. Tap the “Next” button.
 - d. Wait until you are notified to add your food to the grill. Please note, the grill may need to finish the pre-heat cycle first.
 - e. When instructed, press the Start button on the grill to start cooking.
- 5) To change to manual operation after a controlled cook, press and hold (2 seconds) the Control Start/Stop Button on the SmartChef Control Panel, then adjust burner control knobs as desired.

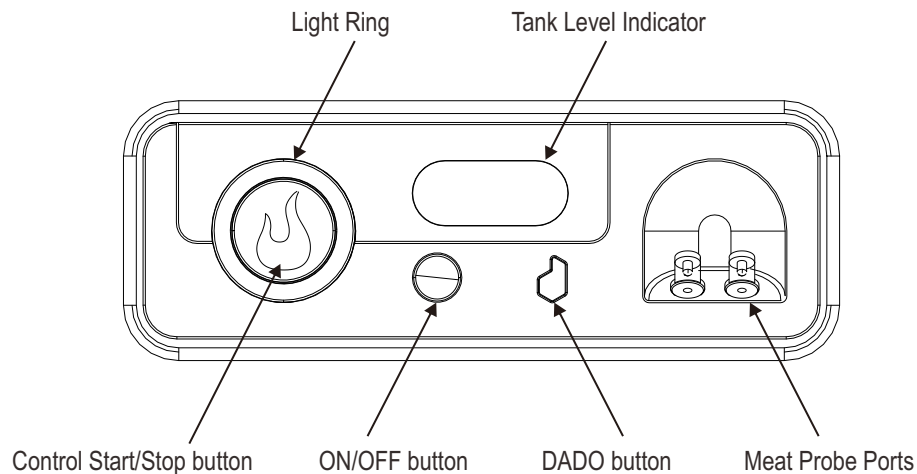
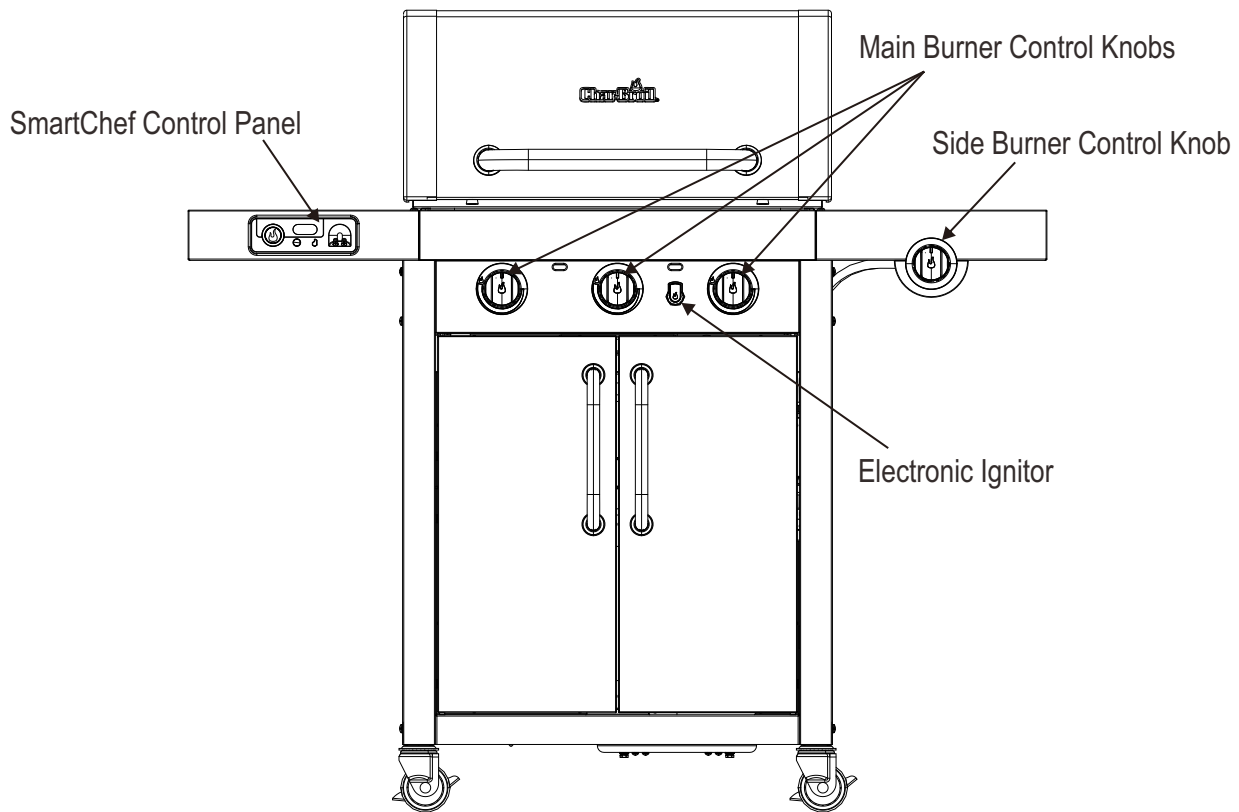
If any burner control knob is turned away from High prior to pressing the Control Start/Stop button, a notification will alert you to press the button on the SmartChef Control Panel.

If the button is not pushed, the grill will shutdown to ensure your food is not unintentionally overcooked.

In manual or controlled operation, you may turn your grill off in the following ways:

- 1) Turn all burner control knobs to the OFF position.
- 2) Turn SmartChef control panel off using On/Off button, or by unplugging. ALL knobs should then be returned to the OFF position. Grill cannot be restarted until ALL knobs have first been turned to the OFF position, then lighting instructions followed to light grill. If knobs are not returned to OFF position, an error notification will be displayed on the app and light ring.

SmartChef Controls



- **Control Start/Stop Button** - Initiates or stops control mode.
- **Light Ring** - Provides general grill info at a glance. Generally, Green = Ready, Orange = Lit, Red = Error
- **Meat Probe Ports** - Plug integrated probes into these ports.
- **On/Off Button** – Turn Power to the unit ON/OFF. Must be ON to use main burners of grill. Side burner can be operated independently.
- **Tank Indicator** – Tank image flashes when you are running low on gas. Tank image is solid when the tank is expected to be empty.
- **DADO Button** – WiFi/DADO functions. ON = WiFi Connected. OFF = Attempting to Connect. Flashing = Not Connected or has Firmware update available. When not connected, pressing DADO button will attempt to rejoin the WiFi settings programmed. If a Firmware update is available, pressing the DADO button will begin the download. Press and hold to reset WiFi settings to default. Open app or visit charbroil.com/smarchefgrill for more detail information.