Use and Care Guide



Liquid Propane Gas Grill

Kenmore Model No. 415.16123800

This Grill Is For Outdoor Use Only



- Read this manual before cooking on grill. Failure to follow all manufacturer's instructions could result in fire or explosion which could cause property damage, personal injury or death.
- Combustion by-products produced when using this product contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.



CAUTION

- Read and follow all Safety Statements, Assembly Instructions and Use & Care Directions before attempting to assemble and cook.
- Some parts may contain sharp edges, especially as noted in these instructions. Wear protective gloves if necessary.

- Parts
- Use and Care

Troubleshooting

- Assembly
- Safety Rules

Assembly Questions? Call 1-800-241-7548

Parts Ordering: Call 1-800-4-MY-HOME[®]

To Installer/Assembler: Leave these instructions with consumer.

To Consumer: Keep this manual for future reference.

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.



DANGER

If you smell gas:

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

WARNING

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

Call Grill Service Center For Help And Parts

If you have questions or need assistance during assembly, please call **1-800-241-7548**. You will be speaking to a representative of the grill manufacturer and not a Sears employee. To order new parts call Sears at **1-800-4-MY-HOME**[®].

Product Record

IMPORTANT: Fill out the product record information below.

Model Number_

Serial Number

See rating label on grill for serial number.

Date Purchased_

CAUTION



For residential use only. Do not use for commercial cooking.



CALIFORNIA PROPOSITION 65

1. Combustion by-products produced when using this product contain chemicals known to the State of California to cause cancer, birth defects, and other reproductive harm.

2. This product contains chemicals, including lead and lead compounds, known to the State of California to cause cancer, birth defects or other reproductive harm.

Wash your hands after handling this product.

Installation Safety Precautions

- Use grill, as purchased, only with LP (propane) gas and the regulator/valve assembly supplied. A conversion kit must be purchased for use with natural gas.
- 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, or the Standard for Recreational Vehicles, ANSI A 119.2/NFPA 1192, and CSA Z240 RV Series, Recreational Vehicle Code, as applicable.
- 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.

Safety Symbols

The symbols and boxes shown below explain what each heading means. Read and follow all of the messages found throughout the manual.







DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING: Indicates an potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION: Indicates a potentially hazardous situation or unsafe practice which, if not avoided, may result in minor or moderate injury.

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Repair Protection Agreements

Congratulations on making a smart purchase. Your new Kenmore[®] product is designed and manufactured for years of dependable operation. But like all products, it may require repair from time to time. That's when having a Repair Protection Agreement can save you money and aggravation.

Purchase a Repair Protection Agreement now and protect yourself from unexpected hassle and expense.

Here's what the Repair Protection Agreement* includes:

- **Expert service** by our 10,000 professional repair specialists
- Unlimited service and no charge for parts and labor on all covered repairs
- ✓ Product replacement up to \$1500 if your covered product can't be fixed
- ☑ Discount of 10% from regular price of service and related installed parts not covered by the agreement; also, 10% off regular price of preventive maintenance check
- ✓ Fast help by phone we call it Rapid Resolution phone support from a Sears representative. Think of us as a "talking owner's manual."

Once you purchase the Repair Protection Agreement, a simple phone call is all that it takes for you to schedule service. You can call anytime day or night, or schedule a service appointment online.

The Repair Protection Agreement is a risk-free purchase. If you cancel for any reason during the product warranty period, we will provide a full refund. Or, a prorated refund anytime after the product warranty period expires. Purchase your Repair Protection Agreement today!

Some limitations and exclusions apply. For prices and additional information call 1-800-827-6655.

Sears Installation Service

For Sears professional installation of home appliances, garage door openers, water heaters, and other major home items, in the U.S.A. call **1-800-4-MY-HOME**^{\circ}

WARRANTY

KENMORE GRILL WARRANTY

One Year Full Warranty on Kenmore Grill

If this grill fails due to a defect in material or workmanship within one year from the date of purchase, call 1-800-4-MY-HOME[®] to arrange for free repair (or replacement if repair proves impossible).

Five-Year Limited Warranty on Burners

For five years from the date of purchase, any burner that rusts through will be replaced free of charge. After the first year from the date of purchase, you pay for labor if you wish to have it installed.

All warranty coverage excludes ignitor batteries and grill part paint loss, discoloration or rusting, which are either expendable parts that can wear out from normal use within the warranty period, or are conditions that can be the result of normal use, accident or improper maintenance.

All warranty coverage is void if this grill is ever used for commercial or rental purposes.

All warranty coverage applies only if this grill is used in the United States.

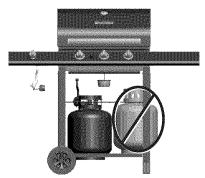
This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., Hoffman Estates, IL 60179

USE AND CARE



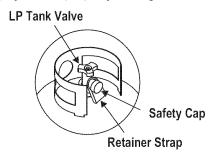
 NEVER store a spare LP tank under or near grill or in enclosed areas



- Never fill the cylinder beyond 80% full.
- An overfilled or improperly stored tank is a hazard due to possible gas release from the safety relief valve.
- If you see, smell or hear escaping gas, immediately get away from the LP tank/grill and call your fire department.
- If the above is not followed exactly, a fire causing death or serious injury may occur.

LP Tank Removal, Transport And Storage

 Turn OFF all control knobs and LP tank valve. Turn coupling nut counterclockwise by hand only - do not use tools to disconnect. Lift LP tank wire upward off of LP tank collar, then lift LP tank up and off of support bracket. Install safety cap onto LP tank 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 tank in storage or being transported must have a safety cap installed (as shown). Do not store an LP tank in enclosed spaces such as a carport, garage, porch, covered patio or other building. Never leave an LP tank inside a vehicle which may become overheated by the sun.
- Do not store an LP tank in an area where children play.

LP Tank

• The LP tank used with your grill must meet the following requirements:

- Use LP tanks only with these required measurements: 12" (30.5cm) (diameter) x 18" (45.7 cm) (tall) with 20 lb. (9 kg.) capacity maximum.
- LP tanks must be constructed and marked in accordance with specifications for LP tank of the U.S. Department of Transportation (DOT). See LP tank collar for marking.
- LP tank 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 tanks equipped with this type of valve.

• LP tank must be arranged for vapor withdrawal and include collar to protect LP tank valve.



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 Tank Filling

- Use only licensed and experienced dealers.
- LP dealer must purge tank before filling.
- Dealer should **NEVER** fill LP tank more than 80% of LP tank volume. Volume of propane in tank will vary by temperature.
- A frosty regulator indicates gas overfill. Immediately close LP tank 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 tank, 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 Tank Exchange

- Many retailers that sell grills offer you the option of replacing your empty LP tank through an exchange service. Use only those reputable exchange companies that inspect, precision fill, test and certify their cylinders. Exchange your tank only for an OPD safety feature-equipped tank as described in the "LP Tank" section of this manual.
- Always keep new and exchanged LP tanks in upright position during use, transit or storage.
- Leak test new and exchanged LP tanks BEFORE connecting to grill.

LP Tank Leak Test

For your safety

- Leak test must be repeated each time LP tank 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. Leaks are indicated by growing bubbles.



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

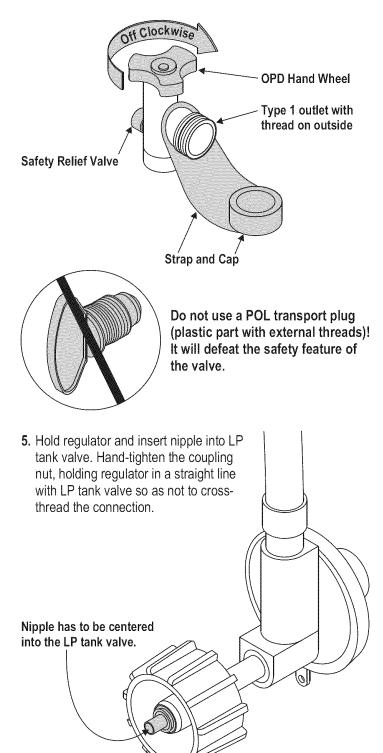
▲ Do not use household cleaning agents. Damage to gas train components can result.

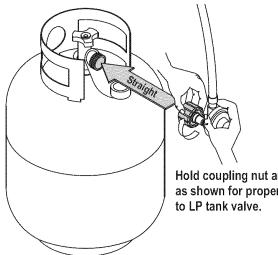
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CALL CONSTRUCTION

Connecting Regulator To The LP Tank

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





Hold coupling nut and regulator as shown for proper connection

6. Turn the coupling nut clockwise and tighten to a full stop. The regulator will seal on the back-check feature in the LP tank 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

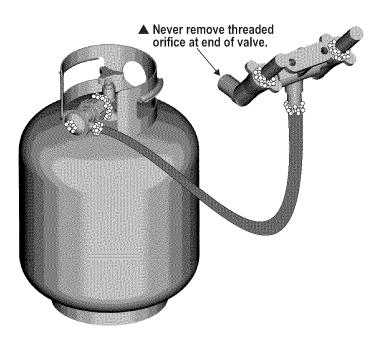
 Do not insert any tool or foreign object into the valve outlet or safety relief valve. You may damage the valve and cause a leak. Leaking propane may result in explosion, fire, severe personal injury, or death.

RNINC

- · 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.
- · Do not use grill until leak-tested.
- · If a leak is detected at any time, STOP and call the fire department.
- If you cannot stop a gas leak, immediately close LPcylinder valve and call LP gas supplier or 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 tank.
- 3. Completely open LP tank valve by turning OPD hand wheel counterclockwise. If you hear a rushing sound, turn gas off immediately. There is a major leak at the connection. Correct before proceeding by calling Sears for replacement parts at 1-800-4-MY-HOME®.
- 4. Brush soapy solution onto areas where bubbles are shown in picture below:

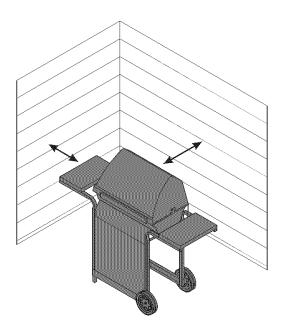


- 5. If "growing" bubbles appear, there is a leak. Close LP tank valve immediately and retighten connections. If leaks cannot be stopped do not try to repair. Call Sears for replacement parts at 1-800-4-MY-HOME[®].
- 6. Always close LP tank valve after performing leak test by turning hand wheel clockwise.

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 bottom 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. (Unless briquets are supplied with your grill.)
- 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.



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.

- NEVER attempt to light burner with lid closed. A buildup of non-ignited gas inside a closed grill is hazardous.
- Never operate grill with LP tank out of correct position specified in assembly instructions.
- Always close LP tank valve and remove coupling nut before moving LP tank from specified operation position.

Safety Tips

- Before opening LP tank valve, check the coupling nut for tightness.
- ▲ When grill is not in use, turn off all control knobs and LP tank valve.
- Never move grill while in operation or still hot.
- Use long-handled barbecue utensils and oven mitts to avoid burns and splatters.
- ▲ Maximum load for shelves is 10 lbs.
- ▲ Do not use a cooking pot larger than 9" on grid.
- ▲ The grease cup **must** be attached to grease cup clip and emptied after each use. Do not remove grease 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.
- ▲ 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".

If the regulator frosts, turn off grill and LP tank valve immediately. This indicates a problem with the tank and it should not be used on any product. Return to supplier!







- 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 tank off.
- Do not leave grill unattended while preheating or burning off food residue on high. If grill has not been regularly cleaned, a grease fire can occur that may damage the product. Follow instructions on General Grill Cleaning and Cleaning The Burner Assembly to prevent grease fires.

Main Burner Ignitor Lighting

▲ Do not lean over grill while lighting.

- **1**. Open lid during lighting.
- 2. Turn ON valve from source or tank.

3. Push and turn Ignition Burner control knob to ≯ HI and immediately press and hold Electronic Ignition button.

4. If ignition does **NOT** occur in 5 seconds, turn Left Burner control knob **OFF**, wait 5 minutes for gas to clear and repeat the lighting instructions.

5. To Light Other Burners turn control knob to HI.

If ignitor does not work, follow match lighting instructions.

After Lighting: Turn knobs to HI position for 15 minutes to preheat grill. Then turn knob to desired setting for cooking.

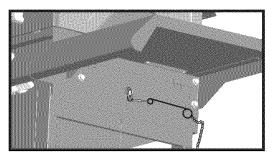


CAUTION

If burner does not light, turn knobs to OFF, wait 5 minutes, and try again. Always close valve during the 5 minute waiting period. 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. Open lid during lighting.
- 2. Place match into match holder (hanging from side of cart). Light match, place into lighting hole on right side of firebox.
- **3.** Push in and turn right knob to HIGH position. Be sure burner lights and stays lit.



Sideburner Ignitor Lighting

- 1. Top cover must be open when burner is operational.
- 2. To ignite SIDEBURNER, open sideburner cover.
- 3. Turn sideburner knob to ≠ 🤞, push and hold ELECTRONIC IGNITOR button.
- **4.** If sideburner does NOT light in 5 seconds, turn knob to OFF, wait 5 minutes for gas to clear, then repeat lighting procedure.

Sideburner Match Lighting

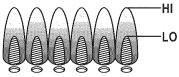
- 1. Open top cover. Turn on gas at LP tank.
- Hold lit match to any port on the burner. Push in and turn sideburner knob to ≠ ↓ HIGH. Be sure burner lights and stays lit.

Before Your First Cookout

• Light burners, check to make sure they are lit, close the lid and warm up grill on HIGH for 15 minutes. This curing of paint and parts will produce an odor only on first lighting.

Burner Flame Check

• Light burner, rotate knobs from HIGH to LOW. You should see a smaller flame in LOW position than seen on HIGH. Always check flame prior to each use. If only low flame is seen refer to "Sudden drop or low flame" in the *Troubleshooting Section*.



Hose Check

• Before each use, check to see if hoses are cut, worn or kinked. Replace damaged hoses before using grill. Use only valve/hose/regulator specified in the Parts List.



Turning Grill Off

• Turn all knobs to **OFF** position. Turn LP tank off by turning OPD hand wheel clockwise to a full stop.

Ignitor Check

• Turn gas off at LP tank. Press and hold ignitor button. "Click" should be heard and spark seen each time between collector box or burner and electrodes. See "*Troubleshooting*" if no click or spark.

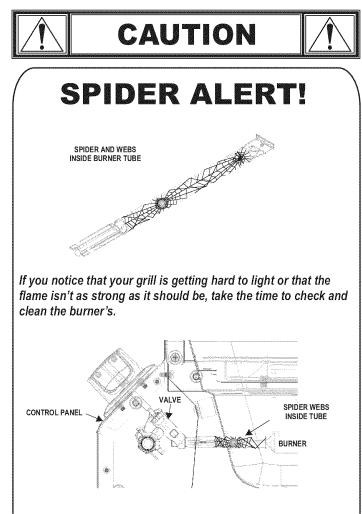
Valve Check

• Important: Make sure gas is off at LP tank 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 LO position then turn back to OFF position. Valves should turn smoothly.

General Grill Cleaning

- Keep the outside of your grill looking new by cleaning it once a month with warm soap and water or a non-abrasive cleaner. If you don't have a grill cover, wipe off dust and grime before starting your grill.
- Coating the cooking grids with spray-on cooking oil will keep the food from sticking and make clean up easier. After cooking, scrape the grates with a long handled, brass wire bristle brush.
- Check inside the grill bottom for grease build up and clean often, especially after cooking fatty meat.
- Do not mistake brown or black accumulation of grease and smoke for paint. 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**.
- **Plated wire grates:** Wash grates with concentrated grill cleaner or use soap and water solution. Dry thoroughly and store indoors between cookouts.

- 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 grates:** Because of glass-like composition, most residue can be wiped away with baking soda/water solution or specially formulated cleaner. Use non-abrasive scouring powder for stubborn stains.
- **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.



In some areas of the country, spiders or small insects have been known to create "flashback" problems. The spiders spin webs, build nests and lay eggs in the grill's burner tube(s) obstructing the flow of gas to the burner. The backed-up gas can ignite in the tube behind the control panel. This is known as a flashback and it can damage your grill and even cause injury.

To prevent flashbacks and ensure good performance the burner assembly should be removed from the grill and cleaned before use whenever the grill has been idle for an extended period.

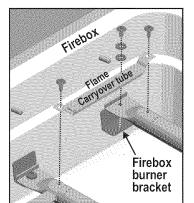
Cleaning the Burner Assembly

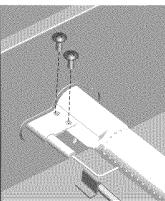
Follow these instructions to clean and/or replace parts of burner assembly or if you have trouble igniting grill.

- 1. Turn gas off at control knobs and LP cylinder.
- 2. Remove cooking grates and heat tents.
- 3. Remove screws and flame carryover tubes from rear of burners.
- 4. Remove screw and washers to disengage burner from bracket on firebox.
- 5. Remove screws to detach electrode from burner. Electrode should remain in firebox.
- 6. 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.
- 7. Wire brush entire outer surface of burner to remove food residue and dirt.
- 8. Clean any blocked ports with a stiff wire such as an open paper clip.
- 9. 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 re-engage valve openings. See illustrations at right.
- 10. Attach electrode to burner.
- 11. Carefully replace burners.
- 12. Attach burners to brackets on firebox.
- 13. Reposition flame carryover tubes and attach to burners. Replace heat tents and cooking grates.



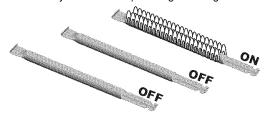


burner-to-valve

engagement

Indirect Cooking

Poultry and large cuts of meat cook slowly to perfection on the grill by indirect heat. The heat from selected burners circulates gently throughout the grill, cooking meat or poultry without the touch of a direct flame. This method greatly reduces flare-ups when cooking extra fatty cuts because there is no direct flame to ignite the fats and juices that drip during cooking.



1 Burner Cooking Cook with direct or indirect heat. Best for smaller meals or foods. Consumes less fuel.

Indirect Cooking Instructions

- · Always cook with the lid closed.
- Due to weather conditions, cooking times may vary. During cold and windy conditions the temperature setting may need to be increased to insure sufficient cooking temperatures



2 Burner Cooking

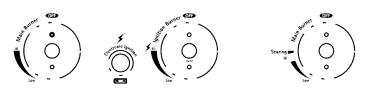
Great indirect cooking on low. Produces slow, even heating. Ideal for slow roasting and baking.

Sear and Grill[™] Burner Feature

This grill includes a high output BTU burner on the far right side of the grill (far right control knob). This burner gets hotter than the other burners when the knob is in the Searing position. This is excellent for searing steaks, chops and other foods.

To operate this feature, follow the normal lighting instructions. Then turn the far right control knob to the Searing position. Allow burner to heat up for 5 minutes. Sear your food for 2 minutes on each side, then grill on low to desired doneness.

When not using the Searing feature, adjust the knob to the same temperature as the other burners.



Storing Your Grill

- · Clean cooking grates.
- · Store in dry location.
- When LP tank is connected to grill, store outdoors in wellventilated space and out of reach of children.
- · Cover grill if stored outdoors.
- Store grill indoors ONLY if LP tank is turned off and disconnected, removed from grill and stored outdoors.
- When removing grill from storage follow "Cleaning Burner Assembly" instructions before starting grill.

Food Safety

Food safety is a very important part of enjoying the outdoor cooking experience. To keep food safe from harmful bacteria, follow these four basic steps:

Clean: Wash hands, utensils, and surfaces with hot soapy water before and after handling raw meat and poultry.

Separate: Separate raw meats and poultry from ready-to-eat foods to avoid cross contamination. Use a clean platter and utensils when removing cooked foods.

Cook: Cook meat and poultry thoroughly to kill bacteria. Use a thermometer to ensure proper internal food temperatures.

Chill: Refrigerate prepared foods and leftovers promptly.

For more information call: USDA Meat and Poultry Hotline at 1-800-535-4555 (In Washington, DC (202) 720-3333, 10:00 am-4:00 pm EST).

How To Tell If Meat Is Grilled Thoroughly

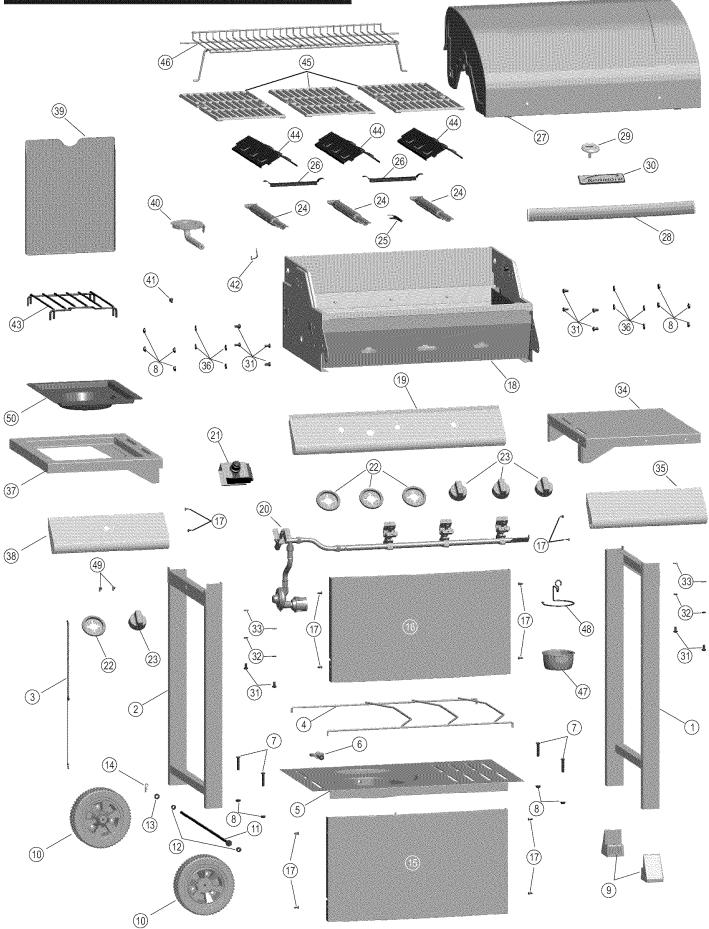
- Meat and poultry cooked on a grill often browns very fast on the outside. Use a meat thermometer to be sure food has reached a safe internal temperature, and cut into food to check for visual signs of doneness.
- Whole poultry should reach 180° F; breasts, 170° F. Juices should run clear and flesh should not be pink.
- Hamburgers made of any ground meat or poultry should reach 160° F, and be brown in the middle with no pink juices. Beef, veal and lamb steaks, roasts and chops can be cooked to 145° F. All cuts of pork should reach 160° F.
- NEVER partially grill meat or poultry and finish cooking later. Cook food completely to destroy harmful bacteria.
- When reheating takeout foods or fully cooked meats like hot dogs, grill to 165° F, or until steaming hot.

PARTS LIST – Model No. 415.16123800

Key	Qty	Description Part #			
1	1	Right Leg Assembly			
2	1	Left Leg Assembly			
3	1	Match Holder			
4	1	Tank Exclusion Wire			
5	1	Bottom Shelf			
6	1	Tank Thumbscrew			
7	4	1/4-20x1-1/2" Screws			
8	12	1/4-20 Flange Nuts	. 80009345		
9	2	Leg Extenders	. 80008596		
10	2	Wheels	. 80013777		
11	1	Axle Rod	. 80009036		
12	2	Wheel Spacers	. 80009345		
13	1	8mm Flat Washer	. 80009345		
14	1	Hitch Pin			
15	1	Lower Front Panel	. 80011622		
16	1	Upper Front Panel	. 80009038		
17	12	#8x3/8" Self-Tap Screws	. 80009345		
18	1	Firebox	. 80009022		
19	1	Control Panel	. 80015590		
20	1	Valve/Hose/Regulator	. 80015594		
21	1	Ignitor Module	. 80014404		
22	4	Bezels	. 80014406		
23	4	Control Knobs	. 80014405		
24	3	Main Burners	. 80012284		
25	1	Main Burner Electrode	. 80009029		
26	2	Flame Carry-Over Tubes	. 80009028		
27	1	Top Lid	. 80009023		
28	1	Handle	. 80009026		
29	1	Temperature Gauge	. 80009025		
30	1	Logo Plate	. 80010544		
31	12	1/4-20x1/2" Screws	. 80009345		
32	4	7mm Lock Washers	. 80009345		

Key	Qty	Description Part #		
33	4	7mm Flat Washers		
34	1	Right Side Shelf		
35	1	Right Fascia		
36	8	Fiber Washer		
37	1	Sideburner Shelf		
38	1	Left Fascia		
39	1	Sideburner Lid		
40	1	Sideburner, w/ Electrode		
41	1	#8-32 Wing Nut		
42	1	Sideburner Clip		
43	1	Sideburner Grate		
44	3	Heat Diffusers		
45	3	Cooking Grate		
46	1	Swing Away		
47	1	Grease Cup		
48	1	Grease Cup Clip		
49	2	#8-32x3/8" Stainless Screws 80009345		
50	1	Drip pan		
	1	Assembly Instructions (English) 80015584		
	1	Assembly Instructions (Spanish) 80015585		
	1	Hardware Pack		
		1 Sideburner Clip		
		1 Hitch Pin		
		2 Wheel Spacer		
		12 1/4-20 X 1/2", Machine Screw		
		4 1/4-20 X 1-1/2", Machine Screw		
		2 #8-32 X 3/8" Stainless Screw		
		12 #8-32 X 3/8", Tapping Screw		
		1 8mm Flat Washer		
		8 7mm Fiber Washer		
		4 7mm Lock Washer		
		4 7mm Flat Washer		
		12 1/4-20, Flange Nut		
		1 #8-32 Wing Nut		

PARTS DIAGRAM – Model No. 415.16123800

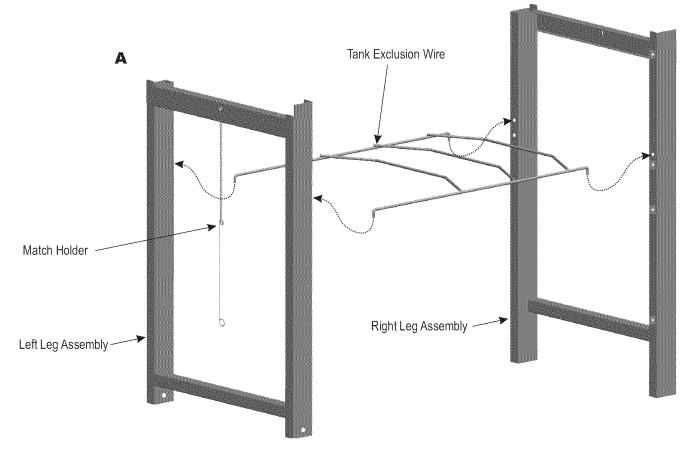


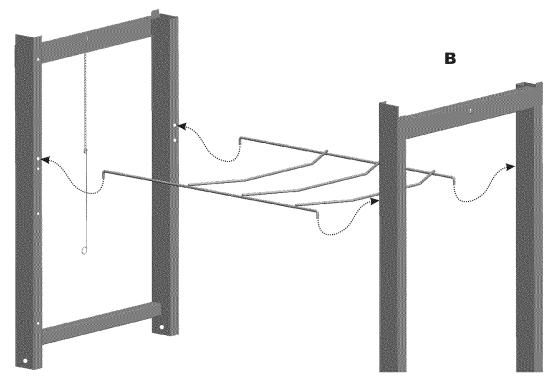
ASSEMBLY – Model No. 415.16123800



Tank Exclusion Wire

Place legs as shown (A). Left leg assembly has large axle holes on ends of legs. Hook tank exclusion wire into right and left leg assemblies (B).



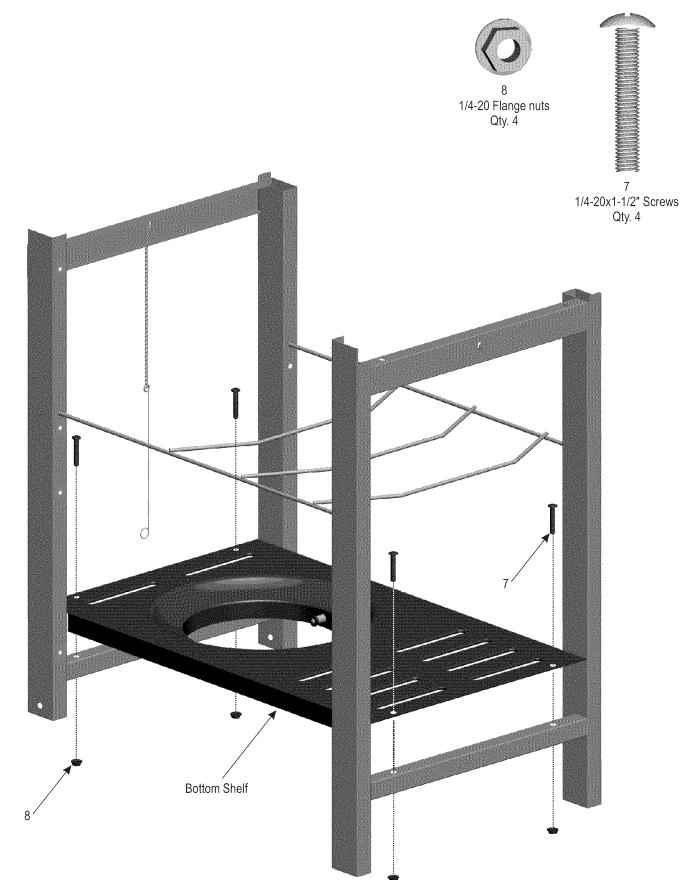




Bottom Shelf to Legs

Place bottom shelf end with cut out hole for LP cylinder between legs with axle holes. Attach to right and left leg assemblies with (4)1/4-20x1-1/2" screws and 1/4-20 flange nuts.

Tighten securely.

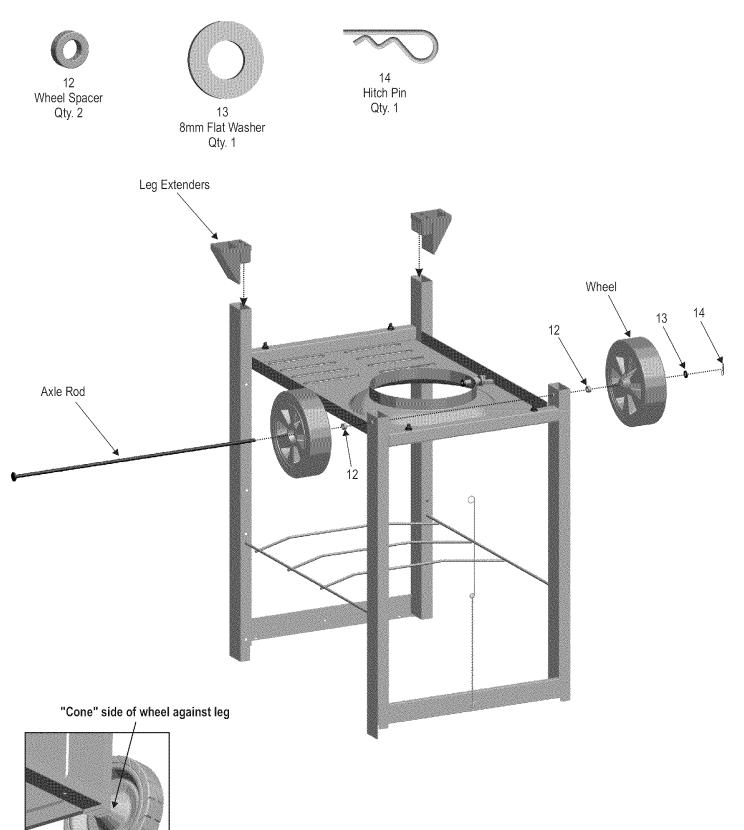




Wheels and Leg Extenders to Cart

Turn assembly upside down.

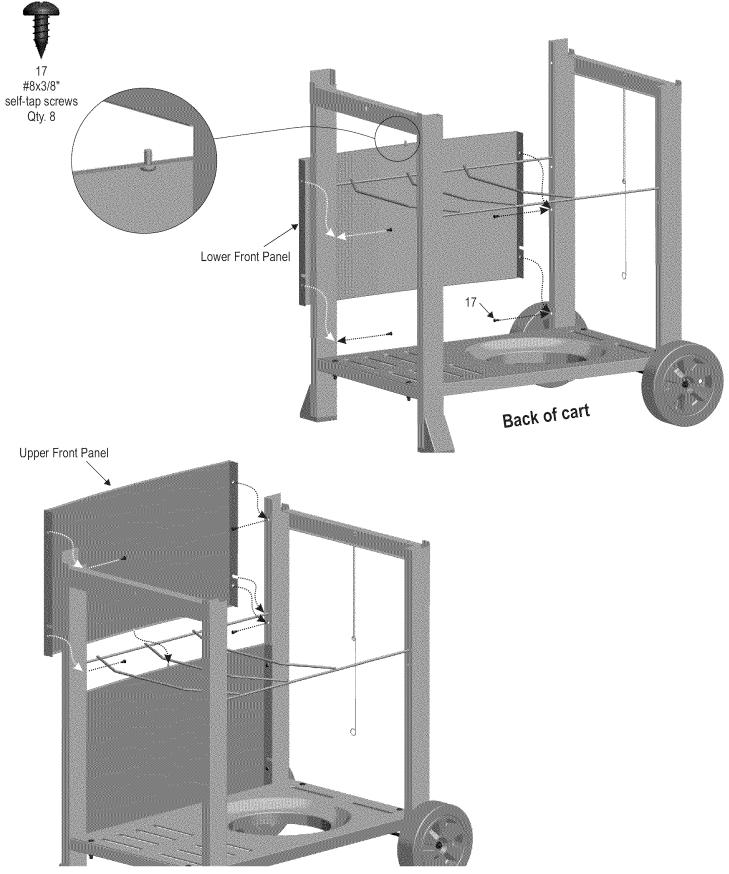
- Insert axle rod through wheel, wheel spacer, legs, wheel spacer and other wheel. Attach with (1) 8mm flat washer and hitch pin.
- Hammer leg extenders into right legs.



Front Panels

Stand cart upright.

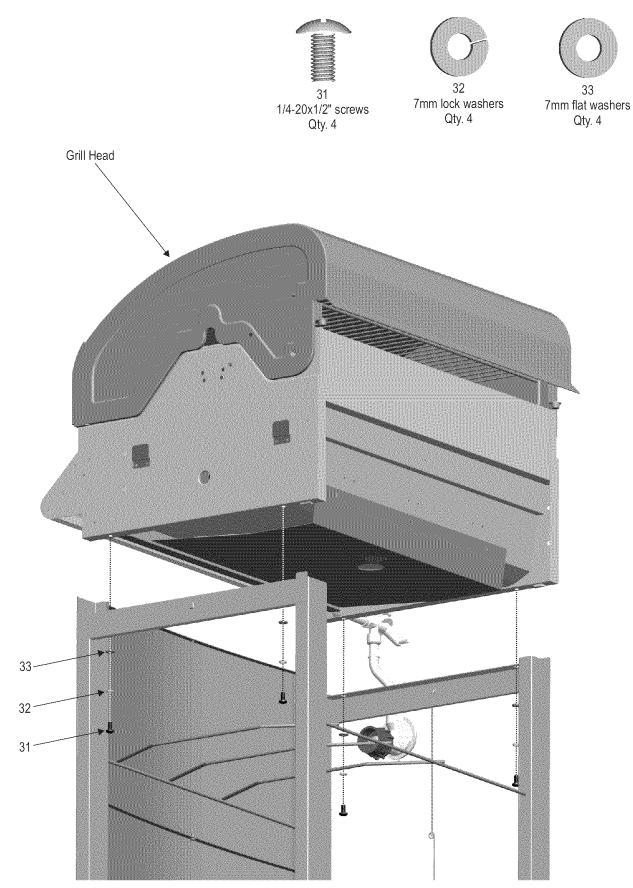
- Attach one front panel to lower half of cart with (4) **#8x3/8" self-tap screws.**
- Slide slot in other panel onto tank exclusion wire and attach to upper half of cart with (4) #8x3/8" self-tap screws.



-5

Grill Head to Cart

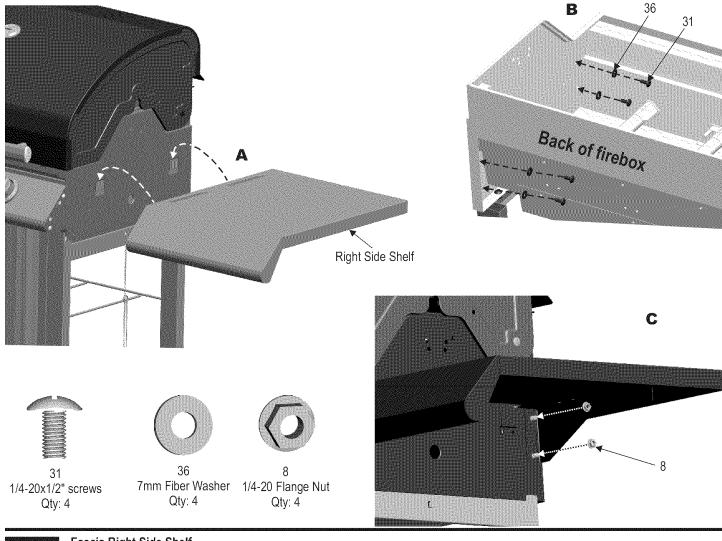
- \square This step requires two people to lift and position grill head onto cart.
- Carefully lower the grill head onto the cart. Make sure the regulator hose is hanging outside the cart. Attach with (4) 1/4-20x1/2" screws, 7mm lock washers and 7mm flat washers.



6

Right Side Shelf

- Hook side wall of shelf over support brackets on side of firebox (A).
- Insert (2) 7mm fiber washers and 1/4-20x1/2" screws through inside front of firebox and (2) through outside back of firebox for each side as shown (B).
- Attach shelf with (4) **1/4-20 flange nuts (C)**.

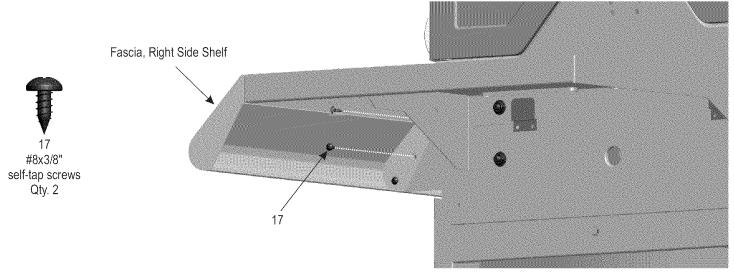




Fascia Right Side Shelf

Attach fascia and side shelf to firebox with **#8x3/8" self-tap screw**.

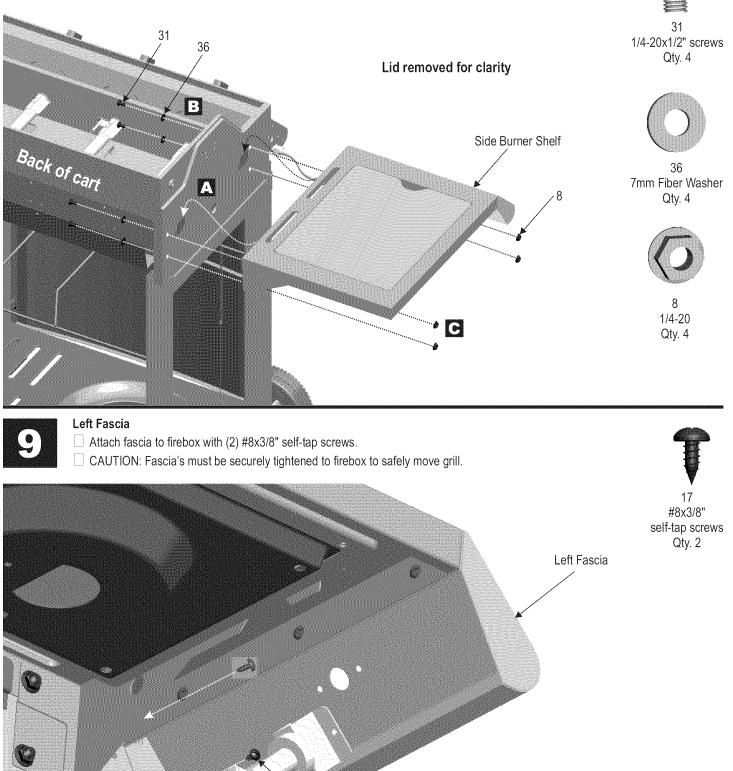
CAUTION: Fascia's must be securely tightened to firebox to safely move grill.



Side Burner Shelf

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- □ Hook side wall of side burner shelf over support brackets on side of firebox (A).
- □ Inside firebox insert fiber washers and 1/4-20x1/2" screws as shown (B).
- $\hfill\square$ Attach shelf using fiber washers and 1/4-20 flange nuts on each side (C).

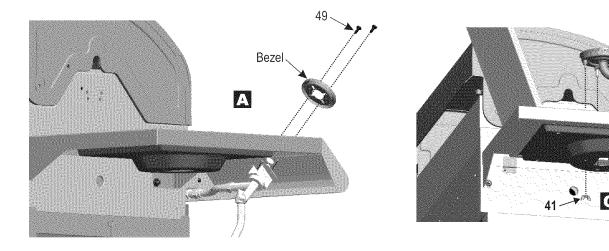


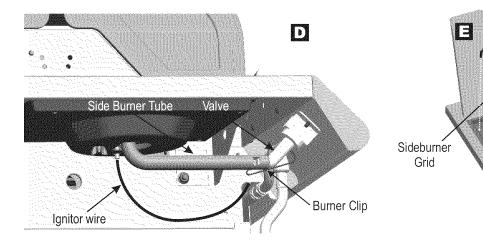
17



Sideburner Valve, Sideburner, Sideburner Bezel, Ignitor Wire, Control Knob and

- Position valve behind fascia and line up holes.
- □ Insert (1) of the #8-32x3/8" stainless steel screws, do not fully tighten.
- Slip bezel under screw inserted and position as shown (A).
- □ Line up other hole and insert screw #8-32x3/8" through bezel and into valve.
- Tighten both securely.
- Place sideburner into shelf (B). Make sure valve is inside sideburner tube. Attach sideburner with (1) wing nut (C). Under sideburner shelf, install sideburner clip to sideburner tube and valve. Attach sideburner ignitor wire to electrode as shown (D).
- \Box Place grate onto sideburner shelf (E).
- Press control knob onto sideburner valve stem (F).



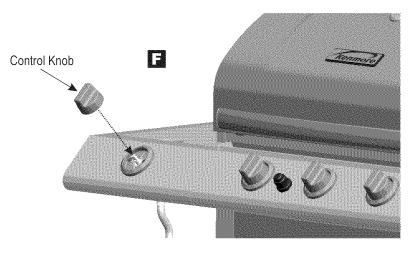


Correctly assembled burner-to-valve engagement

49 #8-32X3/8" SS Screw Qty. 2



Wing Nut Qty. 1



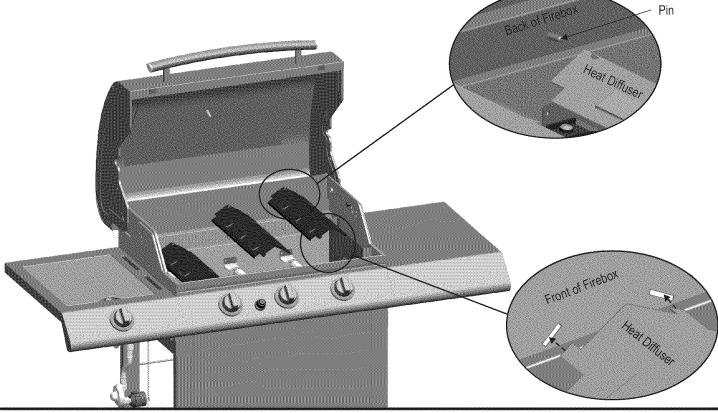
Sideburner

 \Box



Heat Diffusers

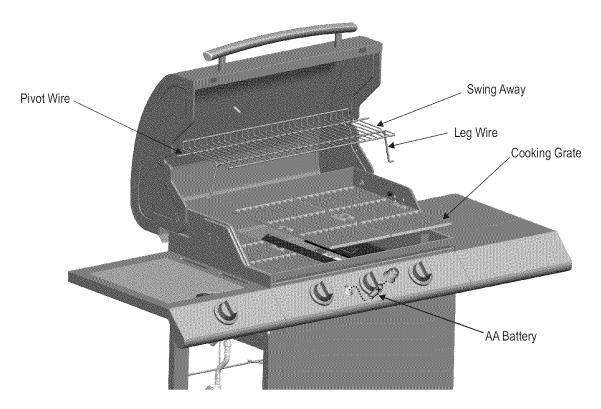
Place heat diffusers over burners by inserting tabs into slots in front of firebox. Opposite ends of heat diffusers rest on pins in back of firebox.



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Cooking Grate and Swing Away

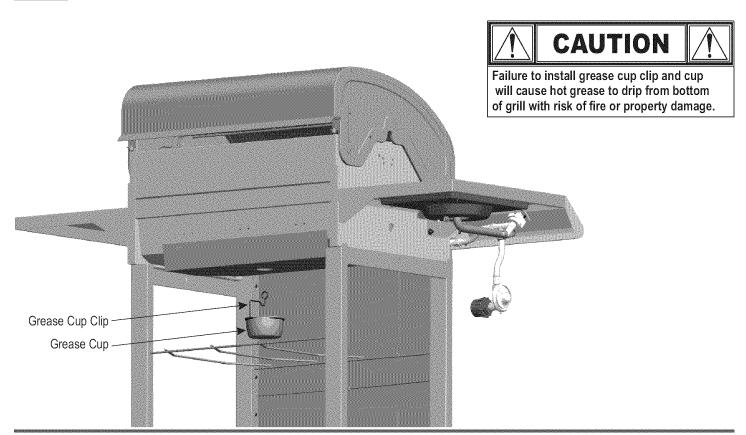
- Place cooking grates onto grate rests.
- Insert ends of Swing Away pivot wire into holes in sides of grill lid. Insert ends of Swing Away leg wire into holes in sides of firebox. NOTE: Pivot and leg wires, running side-to-side, should be under wires running front-to-back. If pivot and leg wires are on top, Swing Away is installed upside-down.
- Unscrew ignitor cap and place AA battery into ignitor slot with positive end (+) facing outward. Screw ignitor cap onto ignitor.





Grease Cup Clip and Grease Cup

Hang grease cup clip from bottom of firebox and place grease cup into grease cup clip.



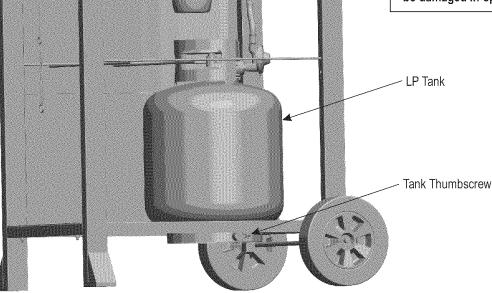
LP Tank

- LP tank is sold separately. Use only with an OPD (over-fill protection device) equipped LP tank. Fill and leak check before attaching to grill and regulator.
- Place LP tank into hole in bottom shelf with tank collar opening facing to side as shown. Finger tighten tank thumbscrew to hold LP tank securely in place.

See Use and Care section to correctly Leak Test and perform the Burner Flame Check.



Failure to install tank correctly may allow gas hose to be damaged in operation, resulting in the risk of fire.



Troubleshooting

EMERGENCIES: If a gas leak cannot be stopped, or a fire occurs due to gas leakage, call the fire department.

Emergencies	Possible Cause	Prevention/Solution
Gas leaking from cracked/cut/burned hose.	• Damaged hose.	 Turn off gas at LP tank. If hose is cut or cracked, replace valve/hose/regulator. See LP Tank Leak Test and Connecting Regulator To The LP Tank.
Gas leaking from LP tank.	 Mechanical failure due to rusting or mishandling. 	Turn off LP tank valve.
Gas leaking from LP tank valve.	 Failure of tank valve from mishandling or mechanical failure. 	 Turn off LP tank valve. Return LP tank to gas supplier.
Gas leaking between LP tank and regulator connection.	 Improper installation, connection not tight, failure of rubber seal. 	 Turn off LP tank valve. Remove regulator from cylinder and visually inspect rubber seal for damage. See LP Tank Leak Test and Connecting Regulator To The LP Tank.
Fire coming through control panel.	 Fire in burner tube section of burner due to partial blockage. 	 Turn off control knobs and LP tank valve. Leave lid open to allow flames to die down. After fire is out and grill is cold, remove burner and inspect for spider nests or rust. See Natural Hazard and Cleaning The Burner Assembly pages.
Troubleshooting: Problem	Possible Cause	Prevention/Solution
Grease fire or continuous excessive flames above cooking surface.	• Too much grease buildup in burner area.	 Turn off LP tank valve. Leave lid open to allow flames to die down. After cooling, clean food particles and excess grease from inside firebox area, grease cup/pan/tray, and other surfaces.
Burner(s) will not light using ignitor.	 GAS ISSUES: Trying to light wrong burner. Burner not engaged with control valve. Obstruction in burner. No gas flow. Vapor lock at coupling nut to LP tank. Coupling nut and LP tank valve not fully connected. 	 See instructions on control panel and section in the Use and Care. Make sure valves are positioned inside of burner tubes. Ensure burner tubes are not obstructed with spider webs or other matter. See cleaning section of Use and Care. Make sure LP tank is not empty. If LP tank is not empty, refer to "Sudden drop in gas flow." Turn off knobs and disconnect coupling nut from LP tank. Reconnect and retry. Turn the coupling nut approximately one-half to three-quarters additional turn until solid stop. Tighten by hand only - do not use tools.
	 ELECTRICAL ISSUES: Electrode cracked or broken; "sparks at crack." Electrode tip not in proper position. Wire and/or electrode covered with cooking residue. Wires are loose or disconnected. Wires are shorting (sparking) between ignitor and electrode. 	 Replace electrode. Tip of electrode should be pointing toward port hole in burner. The distance should be 1/8" to 3/16". Adjust if necessary. Clean wire and/or electrode with rubbing alcohol and clean swab. Reconnect wires or replace electrode/wire assembly. Replace ignitor wire.
Continued on next page.		

Troubleshooting (continued)

Problem	Possible Cause	Prevention/Solution	
Burner(s) will not light using ignitor.	Push-button sticks at bottom	Replace ignitor.	
	Sparking between ignitor and electrode.	 Inspect wire insulation and proper connection. Replace wires if insulation is broken. 	
Burner(s) will not match light.	• See "GAS ISSUES:" on previous page.		
mator light.	 Improper method of match-lighting. 	See "Match-Lighting" section of Use and Care.	
Sudden drop in gas flow or low flame.	Out of gas.	Check for gas in LP tank.	
	• Excess flow valve tripped.	 Turn off knobs, wait 30 seconds and light grill. If flames are still low, turn off knobs and LP tank valve. Disconnect regulator. Reconnect regulator and leak-test. Turn on LP tank valve, wait 30 seconds and then light grill. 	
	Vapor lock at coupling nut/LP tank connection.	Turn off knobs and LP tank valve. Disconnect coupling nut from tank. Reconnect and retry.	
Flames blow out.	High or gusting winds.	 Turn front of grill to face wind or increase flame height. 	
	Low on LP gas.	Refill LP tank.	
	Excess flow valve tripped.	Refer to "Sudden drop in gas flow" above.	
Flare-up.	Grease buildup.	 Clean burners and inside of grill/firebox. 	
	Excessive fat in meat.	Trim fat from meat before grilling.	
	Excessive cooking temperature.	Adjust (lower) temperature accordingly.	
Persistent grease fire. • Grease trapped by food buildup around burner system.		 Turn knobs to OFF. Turn gas off at LP tank. Leave lid in position and let fire burn out. After grill cools, remove and clean all parts. 	
Flashback (fire in burner tube(s)).		 Turn knobs to OFF. Clean burner and/or burner tubes. See burner cleaning section of Use and Care manual. 	
Unable to fill LP tank. • Some dealers have older fill nozzles with worn threads.		 The worn nozzles don't have enough "bite" to engage the valve. Try a second LP dealer. 	
One burner does not light from other burner(s). • Grease buildup or food particles in end(s) of carryover tube(s).		 Clean carry-over tube(s) with wire brush. 	

Troubleshooting - Electronic Ignition

Problem (Ignition)	Possible Cause	Check Procedure	Prevention/Solution
SECTION I No sparks appear at any electrodes when ignition button is	 Battery not installed properly. 	Check battery orientation.	 Install battery (make sure that "+" and "-" connectors are oriented correctly, with "+" end up and "-" end down.)
pushed; no noise can be heard from spark module.	Dead battery.	 Has battery been used previously? 	Replace battery with new AA-size alkaline battery.
	 Button assembly not installed properly. 	 Check to ensure button assembly is fully engaged. Button should travel up and down without binding. 	 Remove button cap assembly and reinstall, making sure it can be fully engaged.
	• Faulty spark module.	 If no sparks are generated with new battery and good wire connections, module is faulty. 	Replace spark module assembly.
SECTION II No sparks appear at any electrodes when ignition switch is pushed; noise can be	Output lead connections not connected.	 Are output connections on and tight? 	 Remove and reconnect all output connections at module and electrodes.
heard from spark module.	 Electrode tip not in proper position. 	 Are the electrode tips pointing in the right direction? Is the gap too big? 	 Main Burners: Tip of electrode should be pointing toward port hole in burner. The distance should be 1/8" to 3/16". Adjust if necessary. Sideburner: Tip of electrode should be pointing toward gas port opening on burner. The distance should be 1/8" to 3/16". Adjust if necessary.
SECTION III Sparks are present but not at all	 Output lead connections not connected. 	 Are output connections on and tight? 	 Remove and reconnect all output connections at module and electrodes.
electrodes and/or not at full strength	 Arcing to grill away from burner(s). 	 If possible, observe grill in dark location. Operate ignition system and look for arcing between output wires and grill frame. 	 If sparks are observed other than from burner(s), wire insulation may be damaged. Replace wires.
	Weak battery.	 All sparks present but weak or at slow rate. 	 Replace battery with a new AA-size alkaline battery.
	 Electrodes are wet. 	 Has moisture accumulated on electrode and/or in burner ports? 	 Use paper towel to remove moisture.
	 Electrodes cracked or broken "sparks at crack". 	 Inspect electrodes for cracks. 	 Replace cracked or broken electrodes.

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