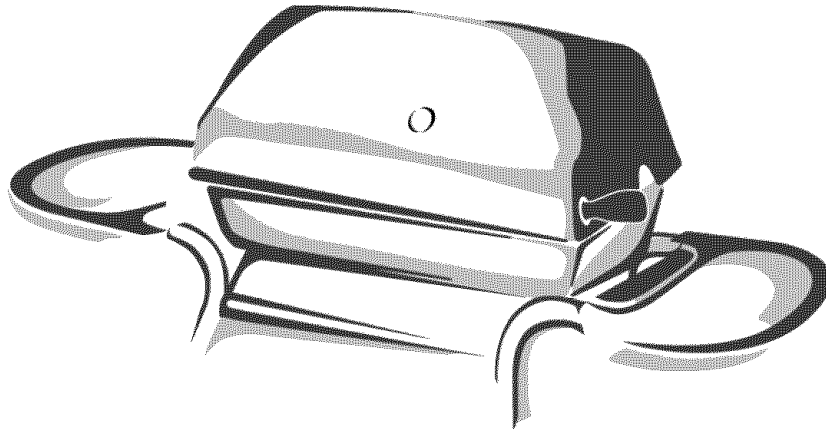




## Liquid Propane Gas Grill

Kenmore Model No. 415.16237

This Grill Is For  
Outdoor Use Only



	<b>WARNING</b>	
<ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li></ul>		

- Parts
- Assembly
- Safety Rules
- Use and Care
- Troubleshooting
- Español, p. 36

	<b>CAUTION</b>	
<ul style="list-style-type: none"><li>• Read and follow all Safety Statements, Assembly Instructions and Use &amp; Care Directions before attempting to assemble and cook.</li><li>• Some parts may contain sharp edges, especially as noted in these instructions. Wear protective gloves if necessary.</li></ul>		

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.

463264407 / 1-80010502 (02-15-07)

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.

**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** 

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

 **WARNING** 

**WARNING:** Be alert to the possibility of serious bodily injury if the instructions are not followed. Be sure to read and carefully follow all of the messages.

 **CAUTION** 

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

**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*, as applicable.
- All electrical accessories (such as rotisserie) must be electrically grounded in accordance with local codes, or *National Electrical Code, ANSI / NFPA 70*. Keep any electrical cords and/or fuel supply hoses away from any hot surfaces.
- Grill is not for use in or on recreational vehicles and/or boats.
- This grill is safety certified for use in the United States only. Do not modify for use in any other location. Modification will result in a safety hazard.

## TABLE OF CONTENTS

For Your Safety . . . . .	2
Grill Service Center . . . . .	2
Product Record Information . . . . .	2
Safety Symbols . . . . .	2
Installation Safety Precautions . . . . .	2
Kenmore Grill Warranty . . . . .	3
Use and Care . . . . .	4-11
Parts List . . . . .	12
Parts Diagram . . . . .	13
Assembly . . . . .	14-30
Cooking Table . . . . .	31
Troubleshooting . . . . .	32-35

### 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's included in the Agreement:

- ✓ **Expert service** by our 12,000 professional repair specialists
- ✓ **Unlimited service and no charge** for parts and labor on all covered repairs
- ✓ **Product replacement** if your covered product can't be fixed
- ✓ **Discount of 10%** from regular price of service and service-related parts not covered by the agreement; also, 10% off regular price of preventive maintenance check
- ✓ **Fast help by phone** – phone support from a Sears technician on products requiring in-home repair, plus convenient repair scheduling

Once you purchase the 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.

Sears has over 12,000 professional repair specialists, who have access to over 4.5 million quality parts and accessories. That's the kind of professionalism you can count on to help prolong the life of your new purchase for years to come. 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®*

## 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).

#### Ten-Year Limited Warranty on Stainless Steel Burners

For ten years from the date of purchase, any stainless steel 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.

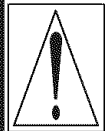
All warranty coverage is void if this grill is ever used for commercial or rental purposes.

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

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

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

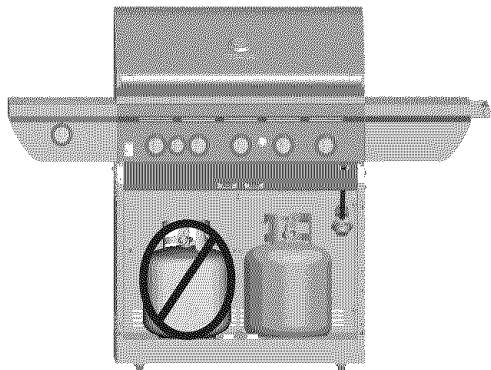
## USE AND CARE



# DANGER



- **NEVER** store a spare LP tank under or near grill or in enclosure.

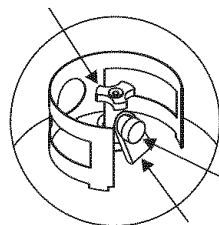


- Never fill the cylinder beyond 80% full.
- An overfilled or improperly stored tank is a hazard due to possible gas release from the safety relief valve.
- If you see, smell or hear escaping gas, immediately get away from the LP tank/grill and call your fire department.
- If the above is not followed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

LP Tank Valve



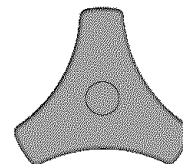
Safety Cap

Retainer Strap

- 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.



OPD Hand Wheel

### 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.**

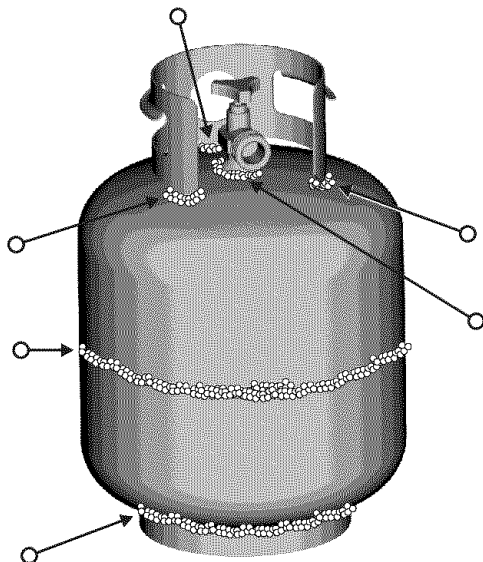
## LP Tank Leak Test

### 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.

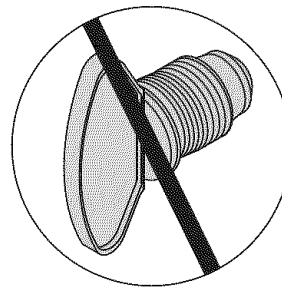
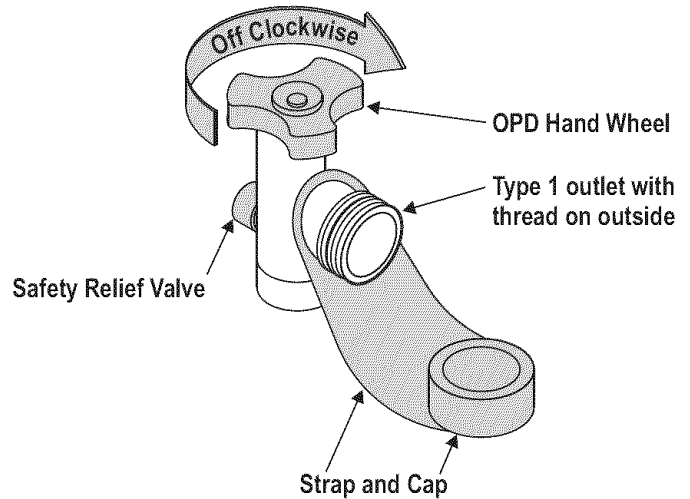
	<b>WARNING</b>	
If "growing" bubbles appear do not use or move the LP tank. Contact an LP gas supplier or your fire department!		

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



## Connecting Regulator To The LP Tank

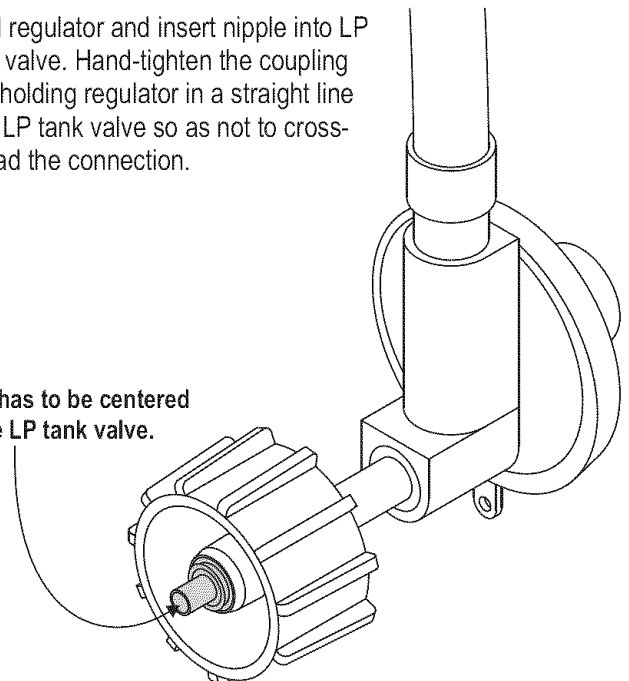
1. LP tank must be properly secured onto grill. (Refer to assembly section.)
2. Turn all control knobs to the OFF position.
3. Turn LP tank OFF by turning OPD hand wheel clockwise to a full stop.
4. Remove the protective cap from LP tank valve. Always use cap and strap supplied with valve.

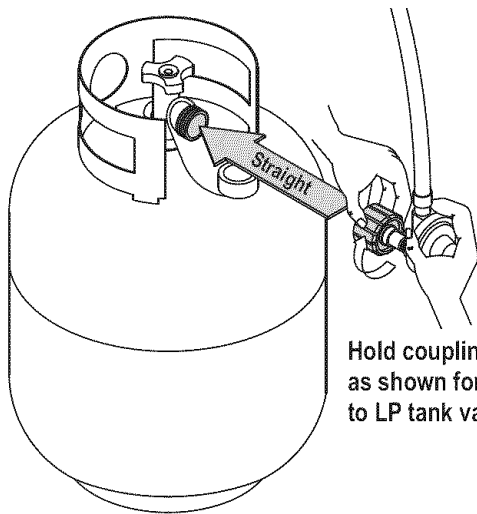


**Do not use a POL transport plug (plastic part with external threads)! It will defeat the safety feature of the valve.**

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

**Nipple has to be centered into the LP tank valve.**





Hold coupling nut and regulator as shown for proper connection to LP tank valve.

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:**

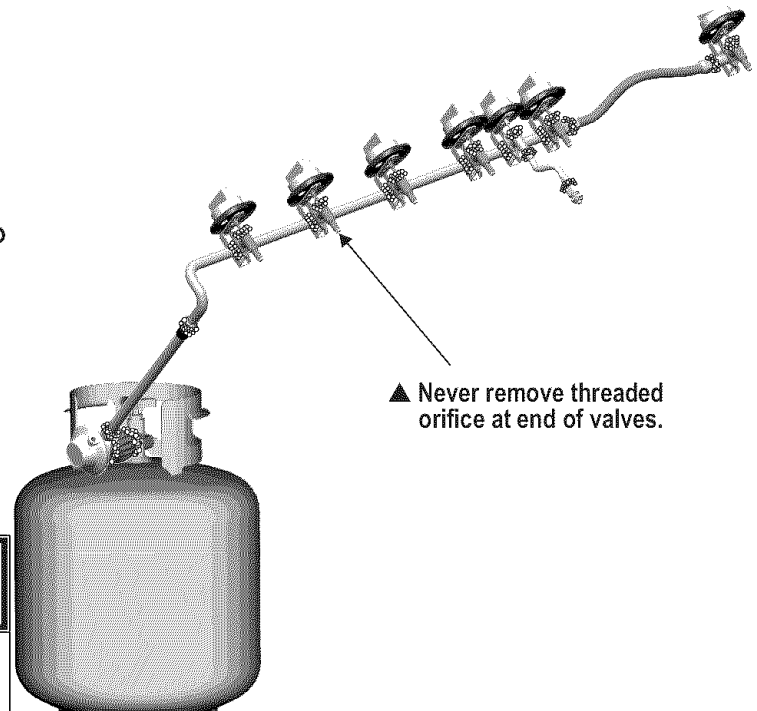
If you cannot complete the connection, disconnect regulator and repeat steps 5 and 6. If you are still unable to complete the connection, **do not use this regulator!**

	<b>DANGER</b>	
<ul style="list-style-type: none"> <li>• Do not insert any tool or foreign objects 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..</li> <li>• If a leak is detected at any time, STOP and call the fire department.</li> <li>• If you cannot stop a gas leak, <i>immediately</i> close LP tank valve and call LP gas supplier or your fire department!</li> </ul>		

	<b>WARNING</b>	
<ul style="list-style-type: none"> <li>• Never attempt to attach this grill to the self-contained LP gas system of a camper trailer or motor home.</li> <li>• Do not use grill until leak-tested.</li> </ul>		

**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.

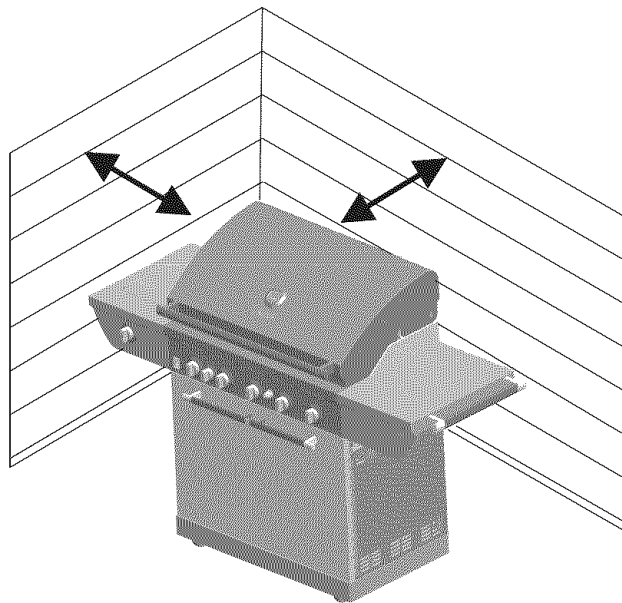


## WARNING



### 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.
- ▲ The grease tray **must** be inserted into grill and emptied after each use. Do not remove grease tray until grill has completely cooled.
- ▲ 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 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!
- ▲ If you have a grill problem see the "Troubleshooting Section".






## WARNING





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!

## Main Burner Lighting



▲ **Do not lean over grill while lighting.**

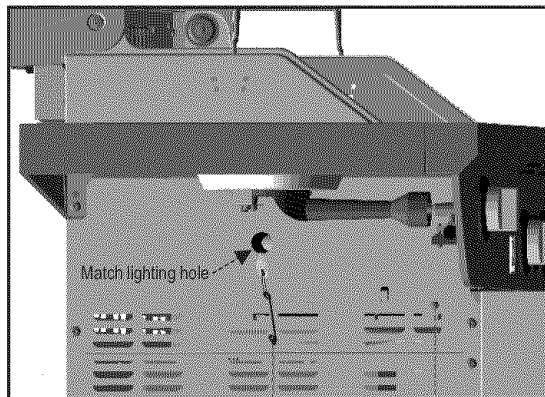
1. **Open lid during lighting.** Turn on gas at LP tank or gas Source.
2. To ignite, turn IGNITION BURNER knob to .
3. Push and hold ELECTRONIC IGNITION button. Be sure burner lights and stays lit.
4. If ignition does NOT occur in 5 seconds, turn the burner control to  OFF, wait 5 minutes, and repeat the lighting procedure.
5. Ignite other burners by turning the knob to , then turn control knob to desired setting. Start with burner closest to ignited burner.

	<b>CAUTION</b>	
<p>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.</p>		



## Main Burner Match Lighting

▲ **Do not lean over grill while lighting.**


1. **Open lid during lighting.** Turn on gas at LP tank or gas Source.
2. Place match into match holder (hanging from side of cart). Light match, place into Match lighting hole on left side of firebox towards burner.
3. Push in and turn left knob to  position. Be sure burner lights and stays lit.
4. Ignite other burners by turning the knob to , then turn control knob to desired setting. Start with burner closest to ignited burner.

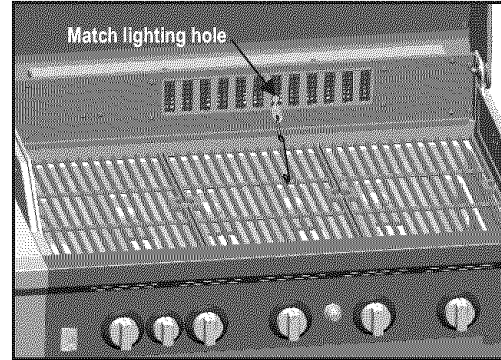


## Rotisserie Lighting



1. **Open lid during lighting.** Turn on gas at LP tank or gas Source.
2. To ignite, turn rotisserie knob to , push and hold Electronic Ignitor button. Be sure burner lights and stays lit.
3. If ignition does not occur in 5 seconds, turn burner control to  OFF, wait 5 minutes, and repeat the lighting procedure.

## Rotisserie Match Lighting

1. **Open lid during lighting.** Turn on gas at LP tank or gas Source.
2. Place match into match holder (hanging from side of cart). Light match, place into Match lighting hole on front side of Rotisserie screen towards burner.
3. Push in and turn rotisserie knob to . Be sure burner lights and stays lit.






## Sideburner Lighting

1. **Open sideburner lid during lighting.** Turn on gas at LP tank or gas Source.
2. Turn sideburner knob to , push and hold ELECTRONIC IGNITOR button. Be sure burner lights and stays lit.
3. If sideburner does NOT light in 5 seconds, turn knob to  OFF, wait 5 minutes, then repeat lighting procedure.

	<b>CAUTION</b>	
<p>Sideburner lid must be open when sideburner is in operation.</p>		

## Sideburner Match Lighting

1. **Open sideburner lid during lighting.** Turn on gas at LP tank or gas Source.
2. Hold lit match to any port hole on the burner. Push in and turn sideburner knob to . Be sure burner lights and stays lit.

	<b>CAUTION</b>	
<ul style="list-style-type: none"><li>• Putting out grease fires by closing the lid is not possible. Grills are well ventilated for safety reasons.</li><li>• Do not use water on a grease fire. Personal injury may result. If a grease fire develops, turn knobs and LP tank off.</li><li>• 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.</li></ul>		

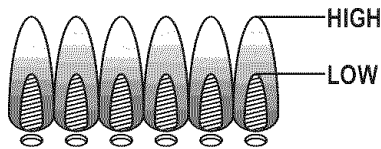


## Before Your First Cookout

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

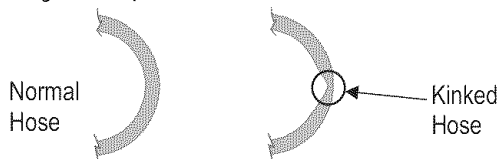
## Burner Flame Check

- 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 **LOW** 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. 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.**

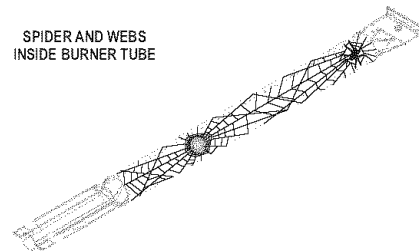
## General Grill Cleaning (continued)

- **Plated wire grates:** Wash Grates and Heat Tents 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.

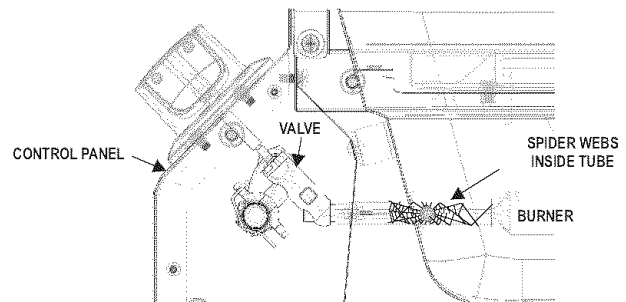


## SPIDER ALERT!

SPIDER AND WEBS  
INSIDE BURNER TUBE



*If you notice that your grill is getting hard to light or that the flame isn't as strong as it should be, take the time to check and clean the burner's.*



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.

See "Cleaning the Burner" section in this manual

## Cleaning the Burner Assemblies

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

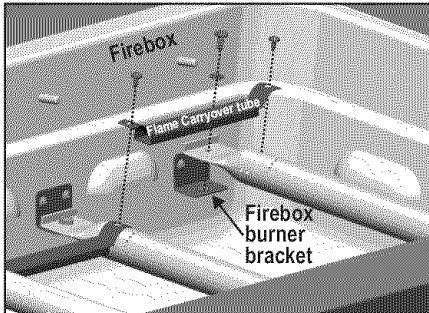
1. Turn gas off at control knobs and LP cylinder.
2. Remove Cooking Grates and Heat Tents.

### Tube Burners (figures A1-A2)

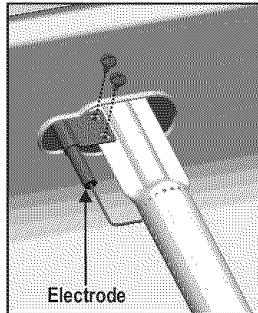
1. Remove screws and Flame Carryover Tubes from rear of Burners shown **A1**.
2. Remove screw and washer from Burner to disengage it from Firebox Burner Bracket at back end of Firebox shown **A1**.
3. Remove screw to detach Electrode from middle Burner. Electrode should remain in Firebox shown **A2**.
4. Carefully lift each Burner up and away from Valve openings.

#### Tube Burner

**A1**



**A2**

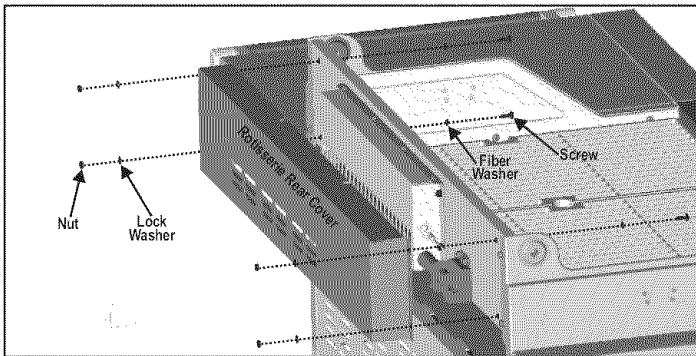


### Rotisserie Burner (figures B1-B2)

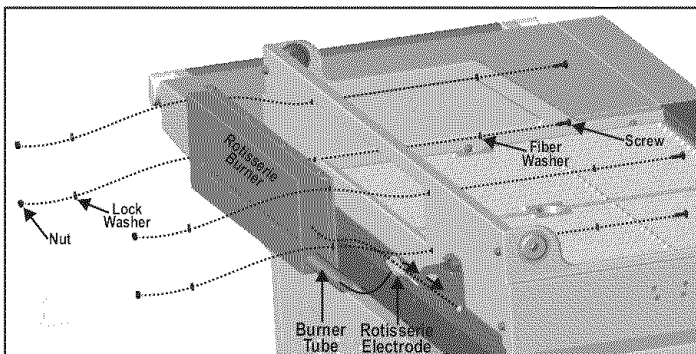
1. Remove Screws, Washers, and Nuts from Rotisserie Rear Cover behind grill shown **B1**.
2. Remove Screw from Electrode shown **B2**.
3. Remove Screws, Washers, and Nuts from Rotisserie Burner to detach from grill shown **B2**.

#### Rotisserie Burner

**B1**



**B2**



## Cleaning Burners

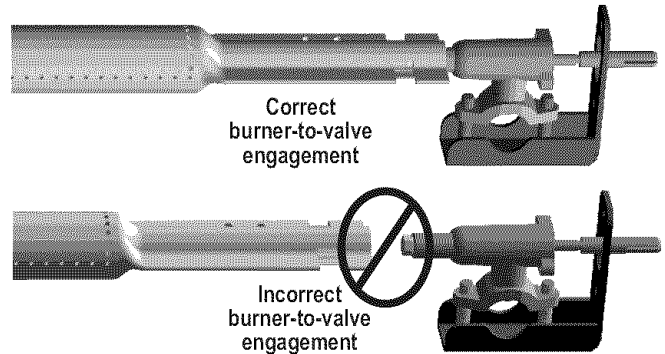
We suggest three ways to clean the Burner Tubes. Use the one easiest for you.

- (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.

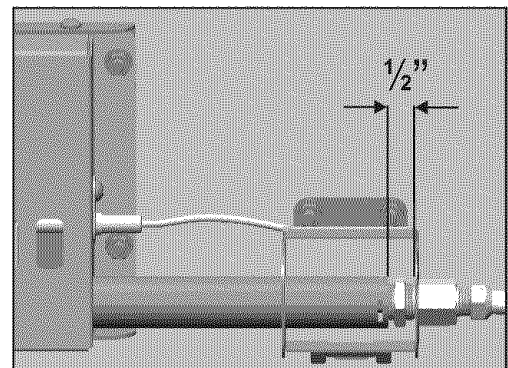
1. Wire brush entire outer surface of Burner to remove food residue and dirt.
2. Clean any blocked ports with a stiff wire such as an open paper clip.
3. Check Burner for damage, due to normal wear and corrosion some holes may become enlarged. If any large cracks or holes are found replace Burner.

Re-assembly Burners in reverse order above.

**VERY IMPORTANT: Burner tubes must re-engage over valves. See illustration below.**



**VERY IMPORTANT: Rotisserie Burner tube must re-engage over valve. See illustration below.**



## Storing Your Grill

- Clean cooking grates.
- Store in dry location.
- When LP tank is connected to grill, store outdoors in well-ventilated 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.

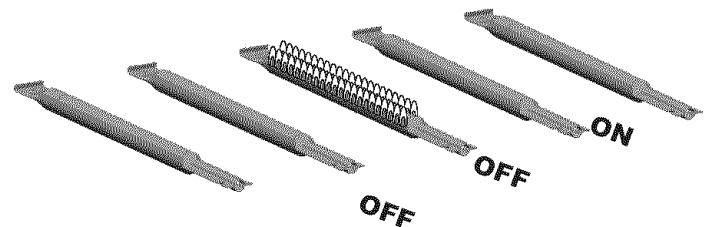
**For more information call: USDA Meat and Poultry Hotline at 1-800-535-4555 (In Washington, DC (202) 720-3333, 10:00 am-4:00 pm EST).**

## 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.

## 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.

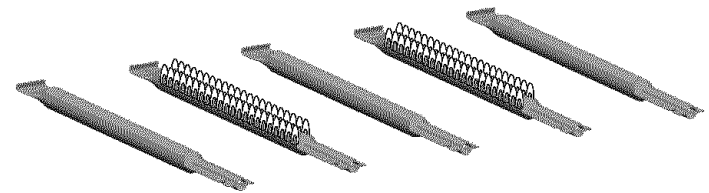


### 1 Burner Cooking

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.

### Rotisserie Cooking

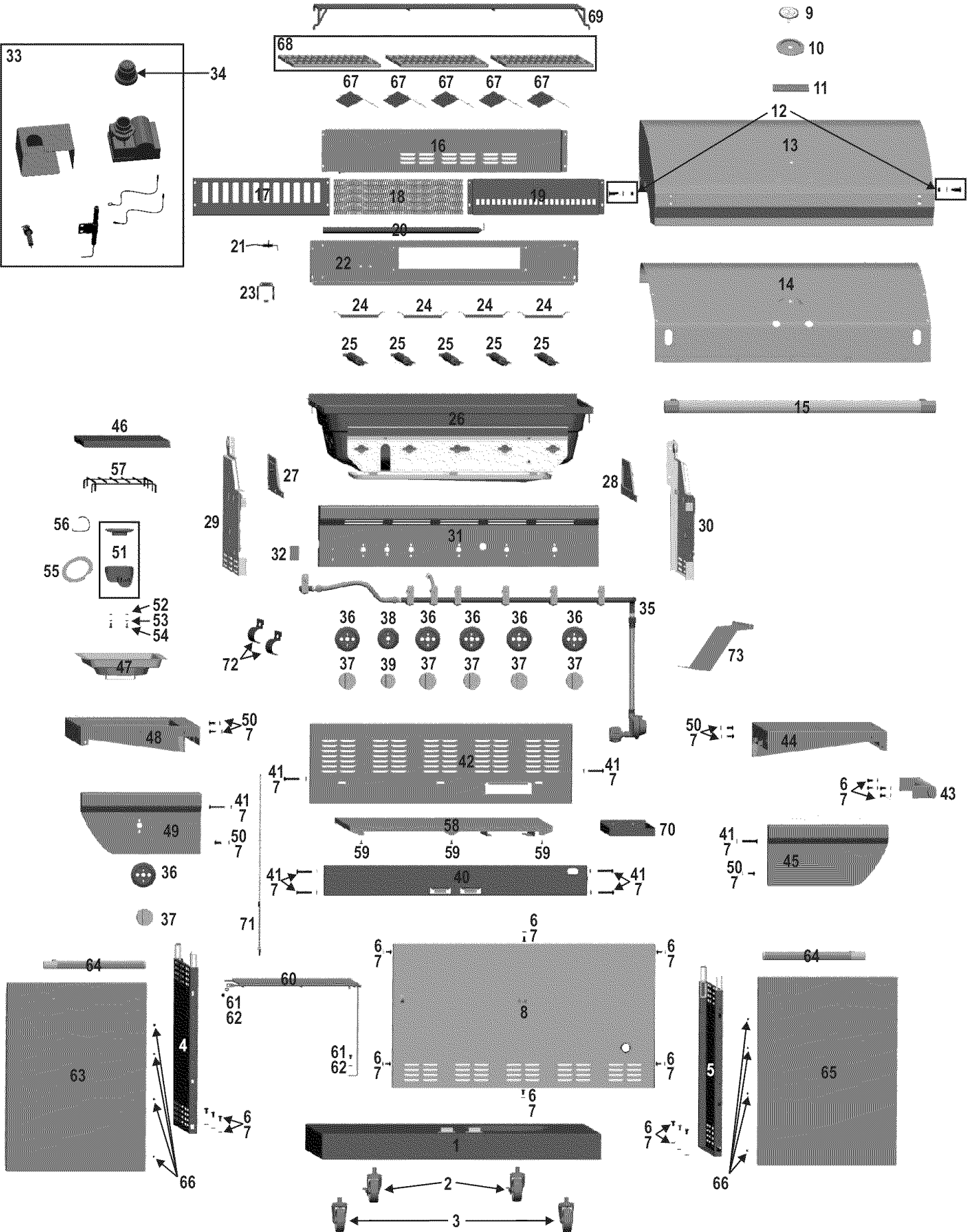
When using a rotisserie on your grill, you should **remove the cooking grates and warming rack**. This will provide adequate clearance for large foods.

- ▲ Only remove grids over tube burners for rotisserie cooking, never cook without Burner Tents.

## PARTS LIST – Model 415.16237

Key	Qty	Description	Part #	Key	Qty	Description	Part #
1	1	Bottom Shelf . . . . .	80010508	49	1	Fascia, Left . . . . .	80010534
2	2	Locking Caster . . . . .	80000268	50	6	#1/4-20x5/8" Screw . . . . .	HMS02520063CPNSTSS
3	2	Fixed Caster . . . . .	80004093	51	1	Side Burner . . . . .	80004311
4	1	Left Side Panel . . . . .	80010510	52	2	5mm Washer, Silicon . . . . .	HFWM5ID9ODSN
5	1	Right Side Panel . . . . .	80010509	53	2	5mm Washer, Lock . . . . .	HSWM5RHSPSS
6	16	#1/4-20x1/2" Screw . . . . .	HMS02520050CPNSTSS	54	2	#10-24x3/8" Screw . . . . .	HMS01924038PNSTSS
7	30	#1/4" Washer, Lock . . . . .	HSW025SS	55	1	Wind Diverter . . . . .	80006385
8	1	Lower Back Panel, Cart . . . . .	80010511	56	1	Clip, Side Burner . . . . .	80006434
9	1	Temperature Gauge . . . . .	80006666	57	1	Grate, Side Burner . . . . .	80006640
10	1	Bezel, Temperature Gauge . . . . .	80006354	58	1	Heat Shield . . . . .	80010537
11	1	Logo Plate, Kenmore . . . . .	80010544	59	3	Screw, Tapping, #8x3/8" . . . . .	HAB016038CPNSD
12	1	Hardware Top Lid Assembly . . . . .	80009607	60	1	Tank Exclusion Wire . . . . .	80010538
13	1	Top Lid Insert w/ Sides . . . . .	80010542	61	2	#8-32x3/8" Screw . . . . .	HMS01632038CPNSTSS
14	1	Inner Insert, Top Lid . . . . .	80010543	62	2	#8 Washer, Lock . . . . .	HSW016SS
15	1	Top Lid Handle . . . . .	80010545	63	1	Door, Left . . . . .	80010541
16	1	Rotisserie Cover . . . . .	80010548	64	2	Door Handle . . . . .	80010540
17	1	Front Plate, Rotisserie . . . . .	80010525	65	1	Door, Right . . . . .	80010539
18	1	Front Screen, Rotisserie . . . . .	80007246	66	8	#6-32x3/8" Screw . . . . .	HMS01432038PFSTSS
19	1	Back Plate, Rotisserie . . . . .	80010524	67	5	Flame Tamer . . . . .	80003332
20	1	Burner, Rotisserie . . . . .	80010526	68	1	Cooking Grate, Set of 3 . . . . .	80010436
21	1	Electrode, Rotisserie . . . . .	80010527	69	1	Warming Rack . . . . .	80007275
22	1	Rear Panel, Firebox . . . . .	80010518	70	1	Grease Tray Body . . . . .	80008970
23	1	Rotisserie Valve Support Bracket . . . . .	80007085	71	1	Match Holder . . . . .	80006579
24	4	Carryover Tube . . . . .	80006504	72	1	Rotisserie Hose Bracket . . . . .	80010816
25	5	Burner w/ Spider Guard . . . . .	80005703	73	1	Heat Shield, f/ Regulator Hose . . . . .	80010817
26	1	Firebox Bowl . . . . .	80010513	Not Pictured:			
27	1	Left Side Upper Panel . . . . .	80010514	1	1	Caster Wrench . . . . .	80000283
28	1	Right Side Upper Panel . . . . .	80010515	1	1	Door Magnet Assembly . . . . .	80008850
29	1	Left Side Panel, Firebox . . . . .	80010516	1	1	Assembly Manual . . . . .	80010502
30	1	Right Side Panel, Firebox . . . . .	80010517	1	1	Hardware Pack (for retailer store only) . . . . .	80010501
31	1	Control Panel . . . . .	80010520	1	1	Screw Nut Pack (for purchaser) . . . . .	80010547
32	1	Logo Plate, Dual Fuel . . . . .	80005594	8	8	#8-32x3/8" Flat Head Screw	
33	1	Electronic Ignitor Kit, Main and SB . . . . .	80010519	3	3	#8x3/8" Self-tap Screw	
34	1	Button, Electronic Ignitor . . . . .	80004343	2	2	#8-32x3/8" Screw	
35	1	Valve/Manifold/Regulator . . . . .	80010521	2	2	#8 Lock Washer	
36	6	Bezel, Control Knob . . . . .	80005596	2	2	#10-24x3/8" Screw	
37	6	Control Knob . . . . .	80004299	2	2	#10 Lock Washer	
38	1	Bezel, Rotisserie Knob . . . . .	80010528	2	2	5mm Silicon Washer	
39	1	Control Knob, Rotisserie . . . . .	80007251	16	16	1/4-20x1/2" Screw	
40	1	Front Brace w/ Door Magnet . . . . .	80010512	6	6	1/4-20x5/8" Screw	
41	8	#1/4-20x1-3/4" Screw . . . . .	HMS02520175CPNSTSS	8	8	1/4-20x1-3/4" Screw	
42	1	Upper Back Panel . . . . .	80010529	30	30	1/4 Lock Washer	
43	1	Tower Bar . . . . .	80010532	Natural Gas Conversion Kit (Not Included) 4184609			
44	1	Right Side Shelf . . . . .	80010530				
45	1	Fascia, Right . . . . .	80010531				
46	1	Lid, Side Burner . . . . .	80010536				
47	1	Side Burner Pan . . . . .	80010535				
48	1	Left Side Shelf . . . . .	80010533				

# PARTS DIAGRAM – Model 415.16237

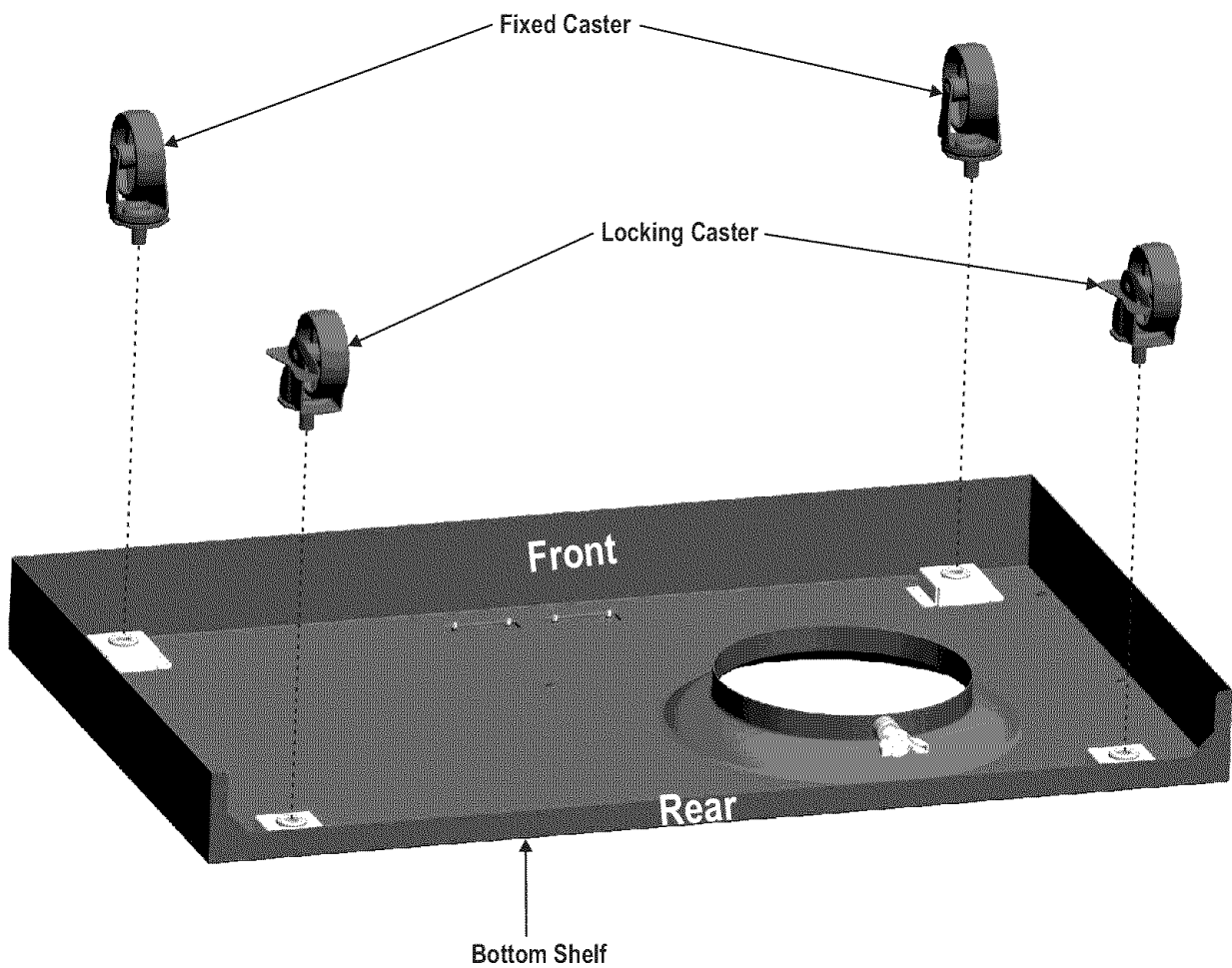


## ASSEMBLY – Model 415.16237

1

### Bottom Shelf

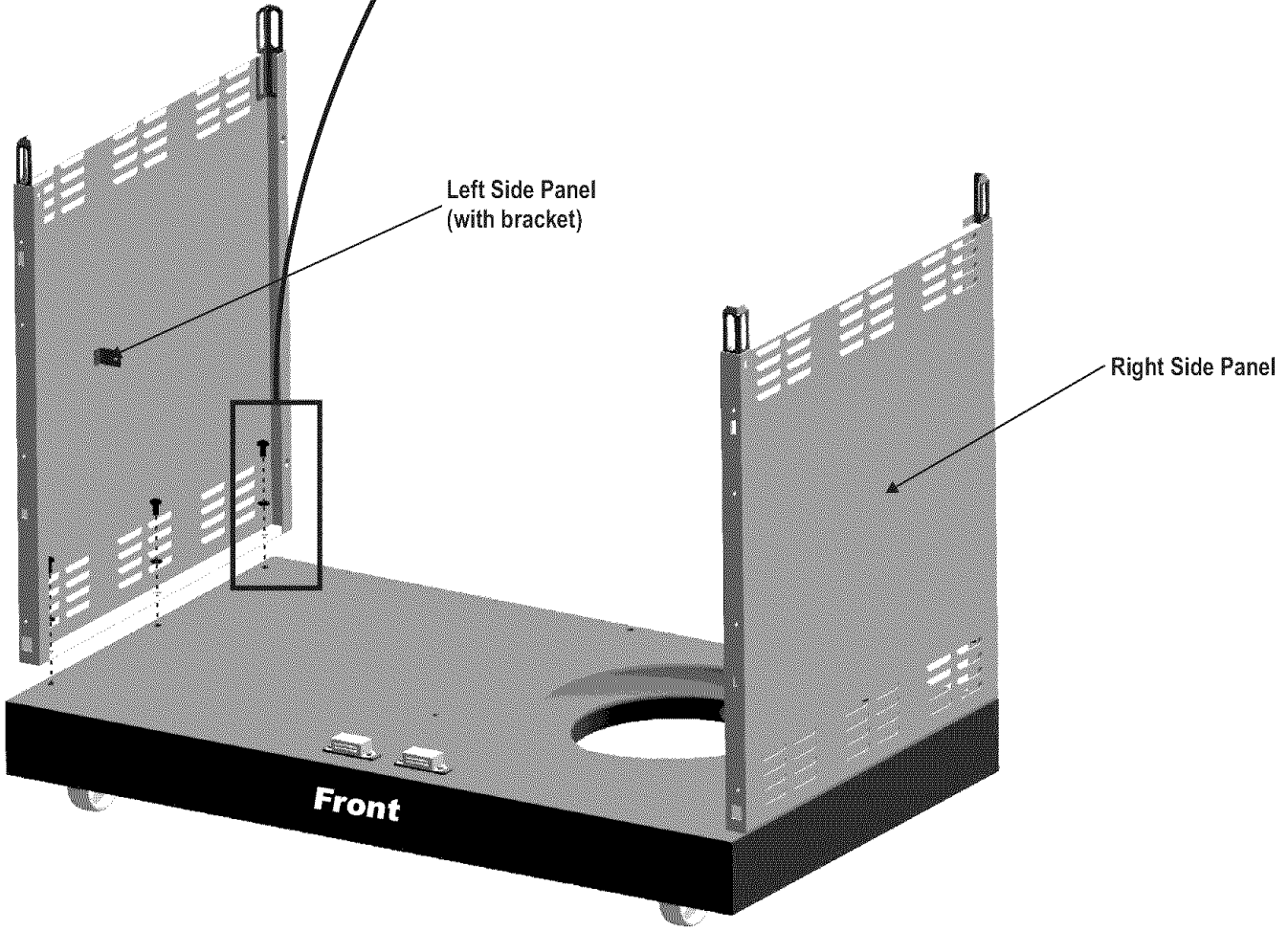
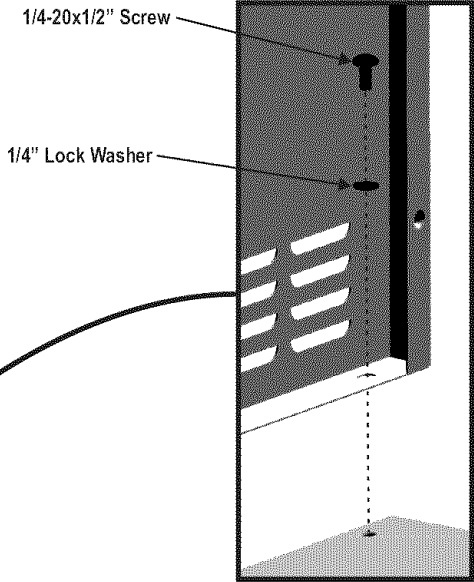
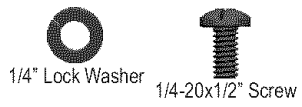
- Attach the two **locking** casters at the **rear** of the bottom shelf.
- Attach the two **fixed** casters at the **front**.
- Use the provided caster wrench to fully tighten casters.



# 2

## Side Cart Panels

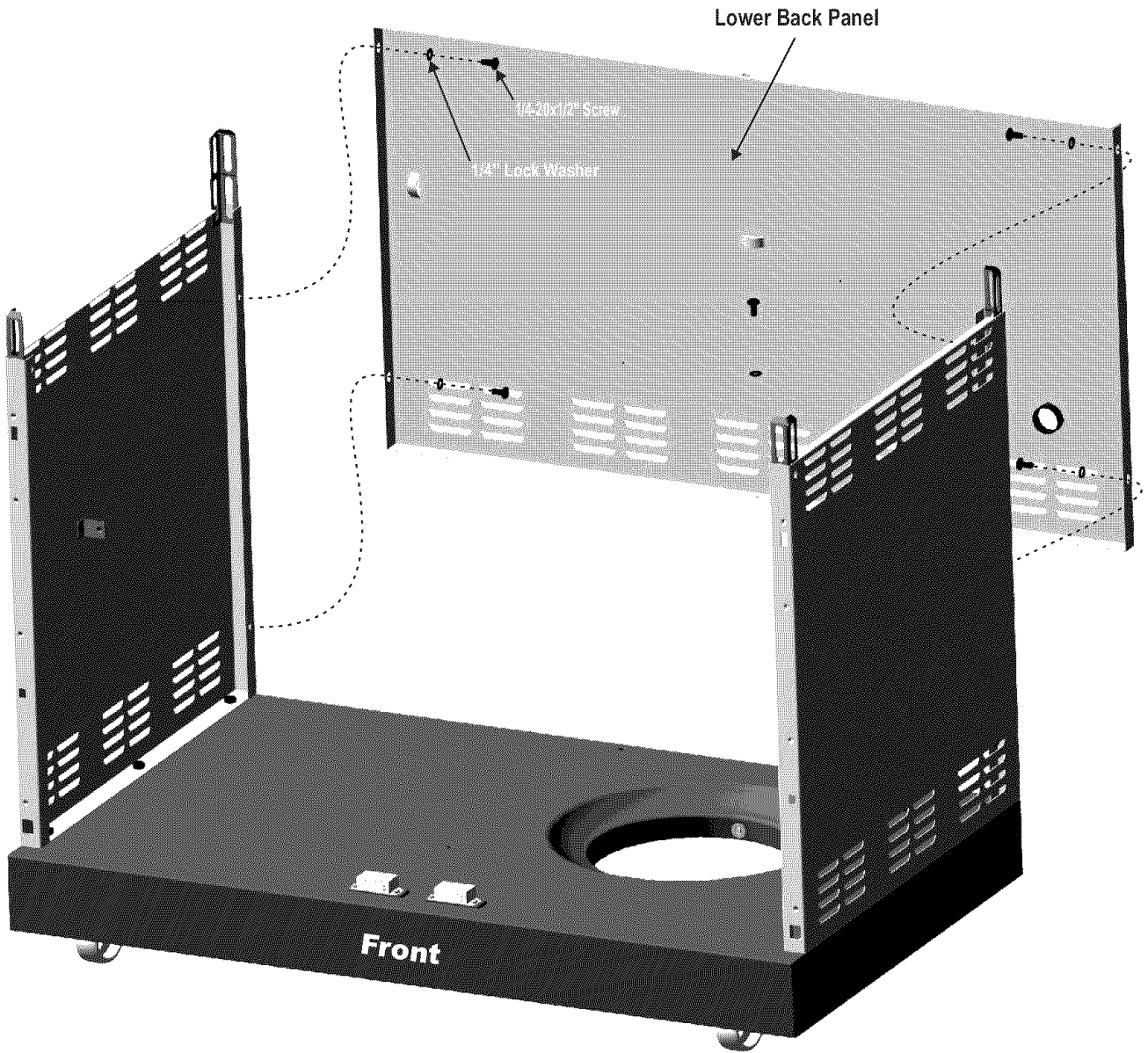
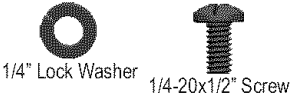
- Attach side panels to bottom shelf.
- Use three 1/4-20x1/2" screws and 1/4" lock washers per panel.
- **IMPORTANT:** Panel with bracket must be on left side of bottom shelf.



# 3

## Cart Lower Back Panel

- Place lower back panel between side panels at rear of bottom shelf.
- Secure lower back panel to side panels using two **1/4-20x1/2"** screws and **1/4"** lock washers on each side.
- Secure middle of lower back panel to bottom shelf using one **1/4-20x1/2"** screw and **1/4"** lock washer.

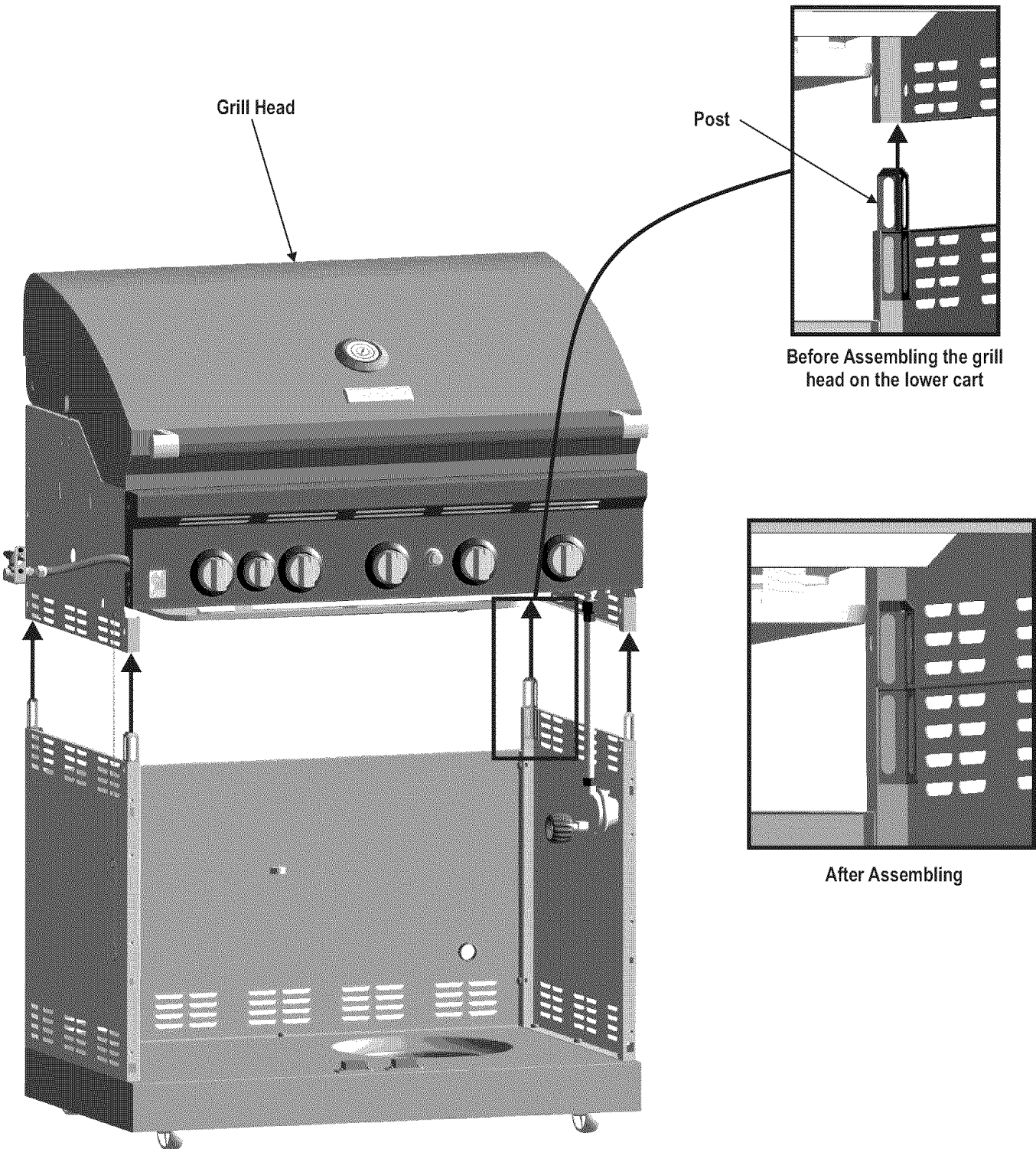




# 4

## Grill Head, Cart Assembly

- This step requires two people to lift and position grill head onto cart.
- Carefully lower the grill head onto the cart, aligning slots at bottom of grill head with posts on cart side panels.
- Grill head must face open side of cart.



Before Assembling the grill head on the lower cart

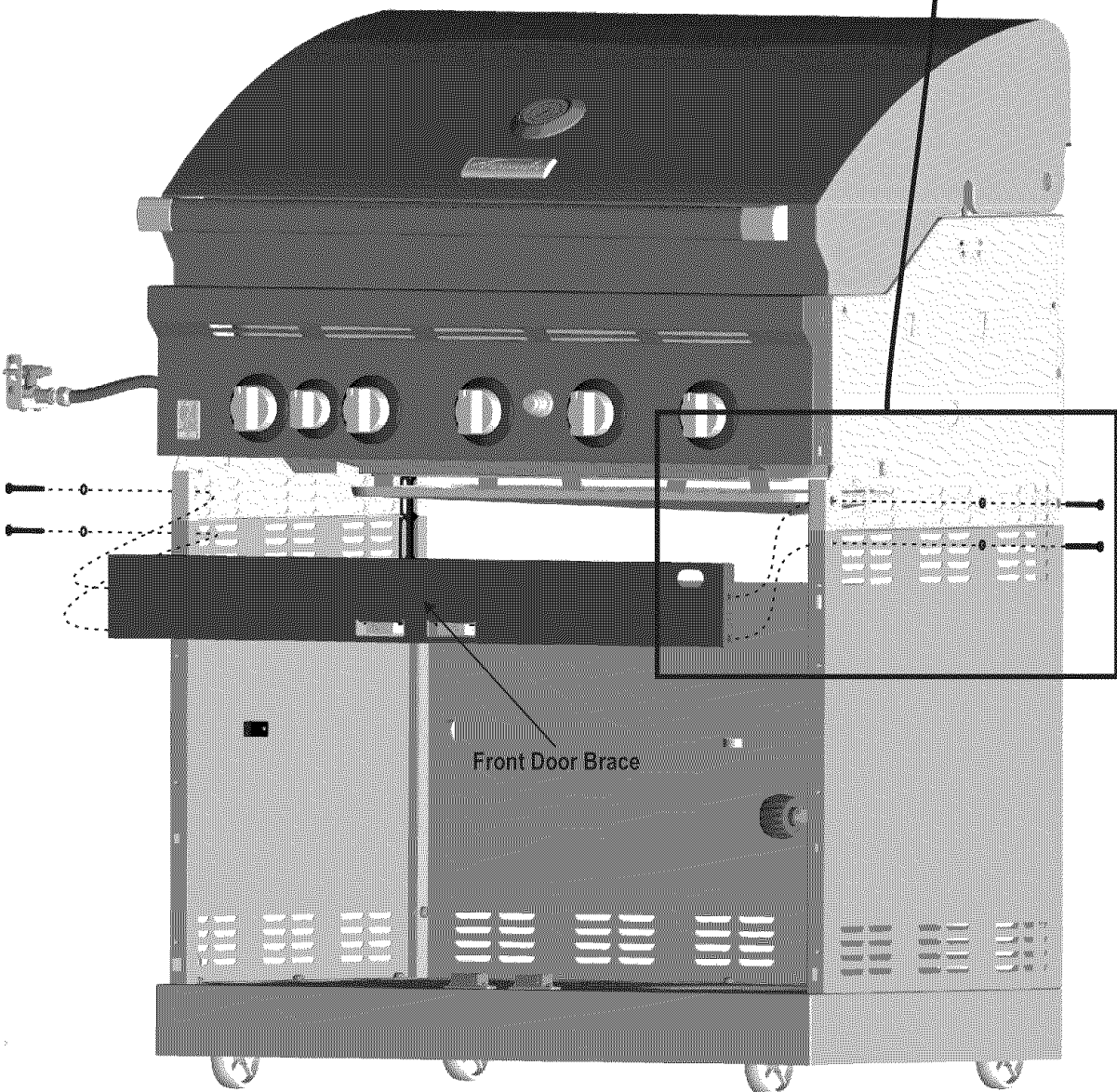
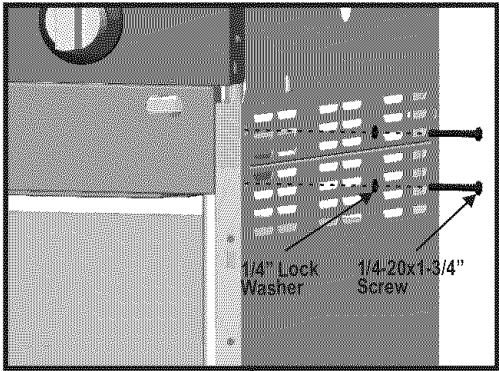
After Assembling

# 5

## Front Door Brace

- Insert front brace under control panel and between cart side panels.
- Secure using two 1/4-20x1-3/4" screws and 1/4" lock washers on each side.

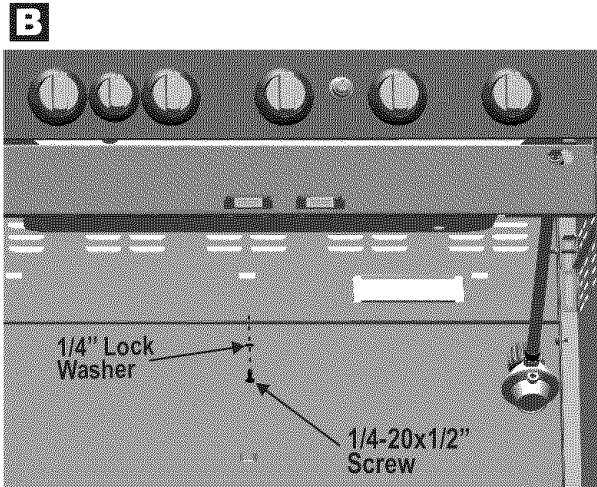
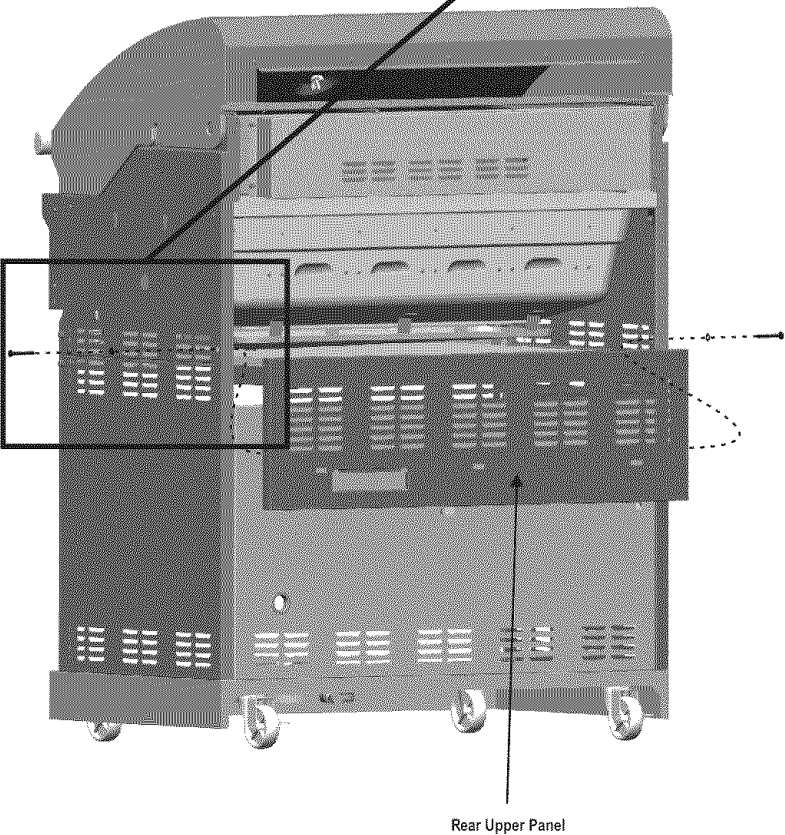
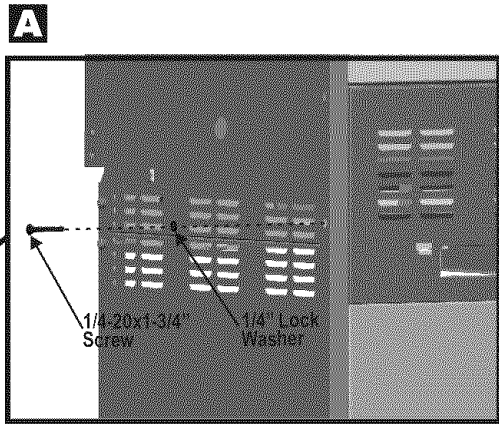
**NOTE: MAKE SURE THE SCREWS ARE IN THE LOWEST POSSIBLE POSITION IN THE MOUNTING HOLES..**



# 6

## Cart Upper Back Panel

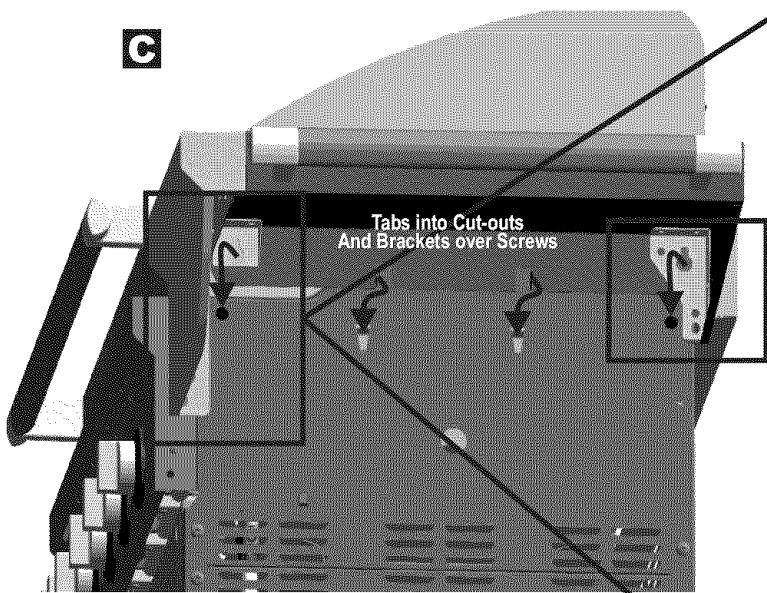
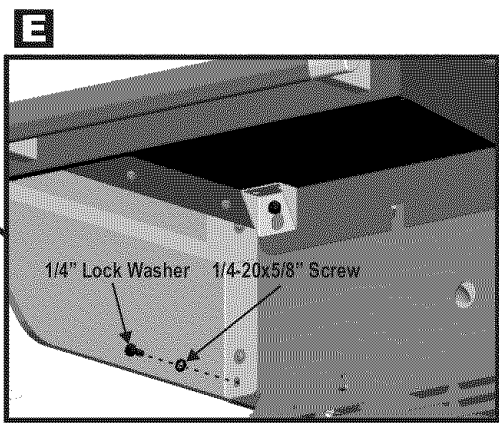
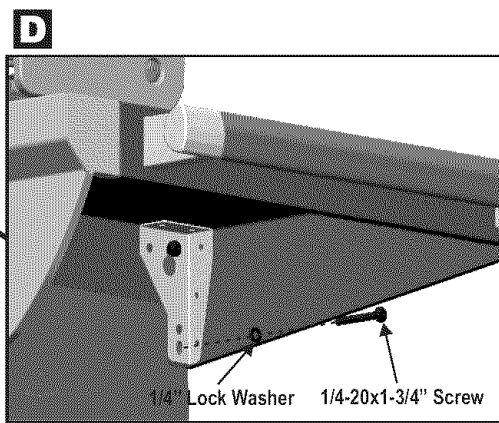
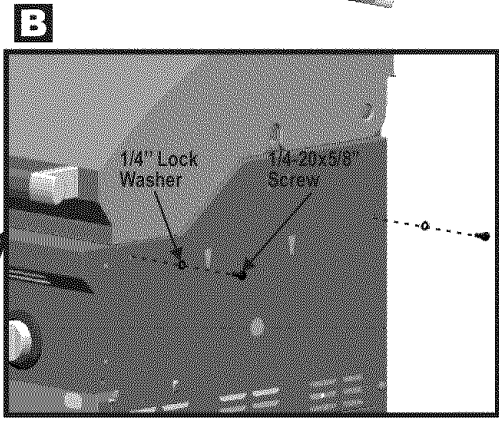
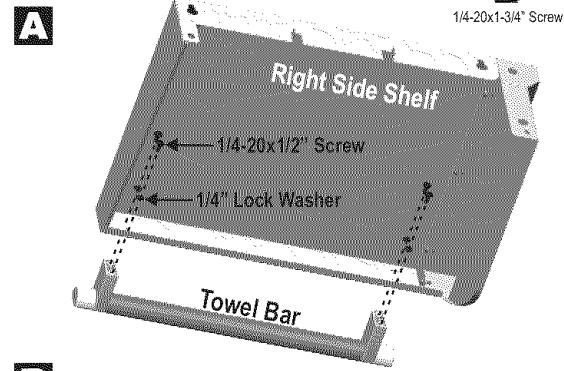
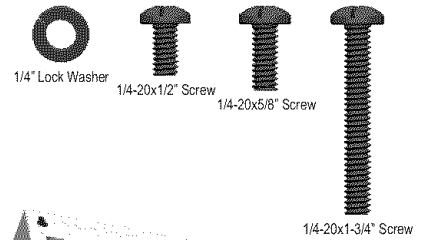
- On back of grill, place cart upper back panel between side panels and above cart lower back panel.
- Secure cart upper back panel, in lower holes, using one **1/4-20x1-3/4"** screw and **1/4"** lock washer on each side shown **A**.
- Secure cart upper back panel to lower back panel from inside using one **1/4-20x1/2"** screw and **1/4"** lock washer in the center hole shown **B**.
- **Do not fully tighten screws until side shelf installation is complete in later steps.**



# 7

## Right and Left Shelf Assembly

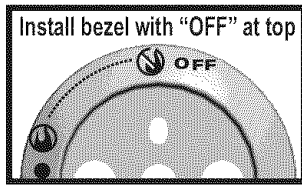
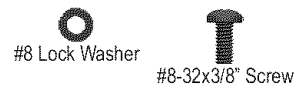
- Attach four  $1/4$ -20x $1/2$ " screws and  $1/4$ " lock washers through side shelf holes (right shelf **ONLY**), into towel bar shown **A**.
- Attach two  $1/4$ -20x $5/8$ " screws and  $1/4$ " lock washers to the side cart panel shown **B**. Tighten only one-fourth of screw length, so that shelf bracket will slide between cart and washers. Do not tighten.
- Insert side shelf over screws and washers through bracket shown **B-C** and **D-C**. Make sure the middle shelf tabs are inserted into the cart side panel cut-out shown **C**.
- Attach one  $1/4$ -20x $1-3/4$ " screw and  $1/4$ " lock washer at the rear shelf flange shown **D**.
- Attach one  $1/4$ -20x $5/8$ " screw and  $1/4$ " lock washer to front shelf flange shown **E**. Go back and fully tighten screws shown **B**.
- **Only Right Shelf Shown For Assembly, repeat above steps B-E for Left sideburner shelf.**



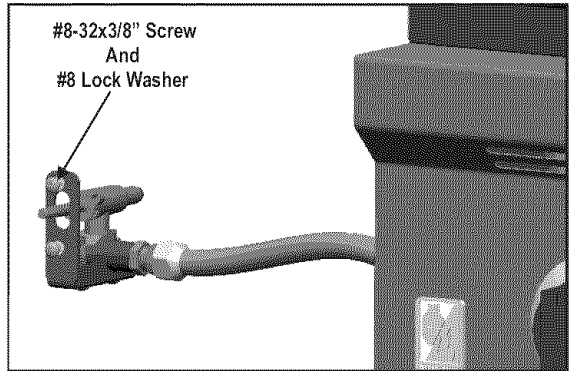
# 8

## Sideburner Control Knob Assembly

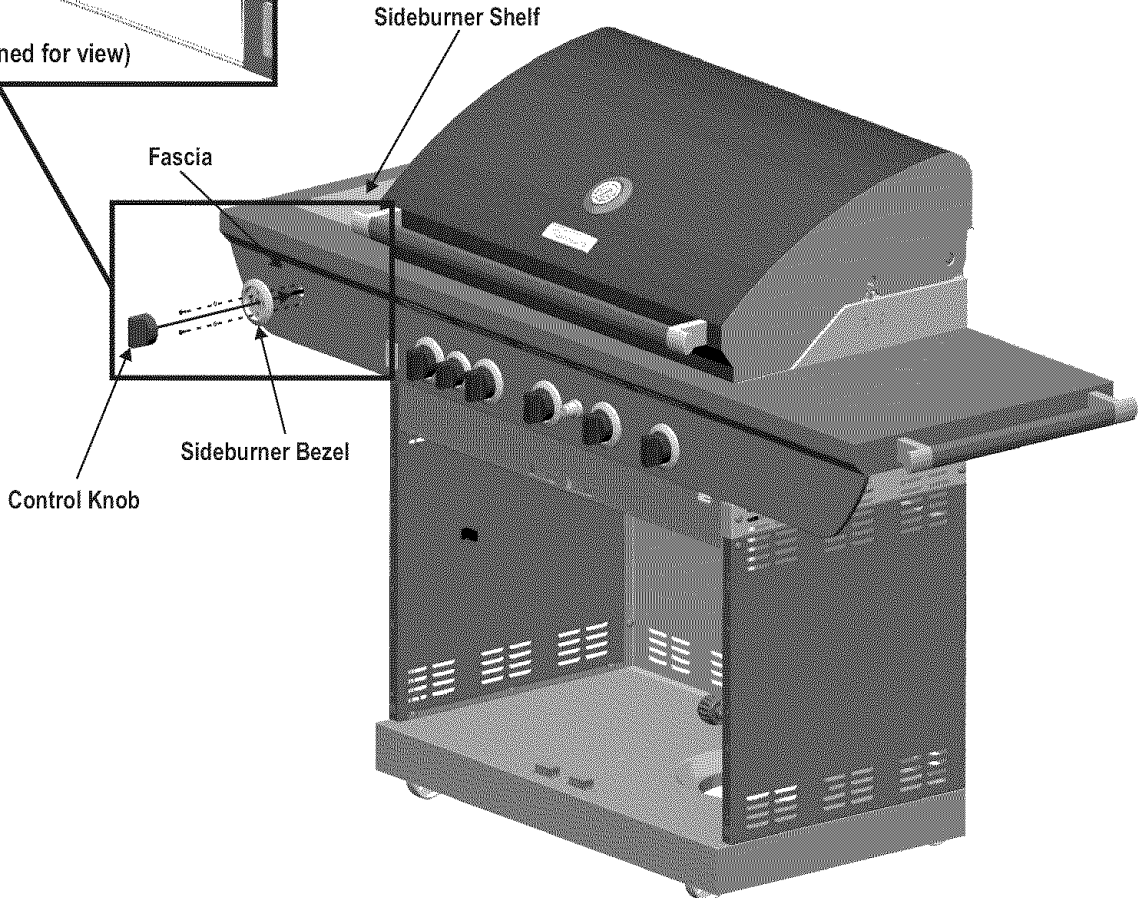
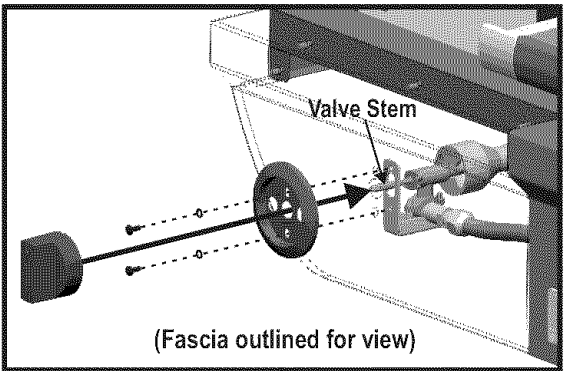
- First, remove the two #8-32x3/8" screw and #8 lock washer from the sideburner valve bracket shown **A**.
- Position sideburner valve bracket beneath sideburner shelf fascia so that valve stem comes through larger center hole in fascia shown **B**.
- Attach sideburner bezel to fascia using screws that were removed from bracket shown **B**.
- Press sideburner control knob onto valve stem shown **B**.



**A**



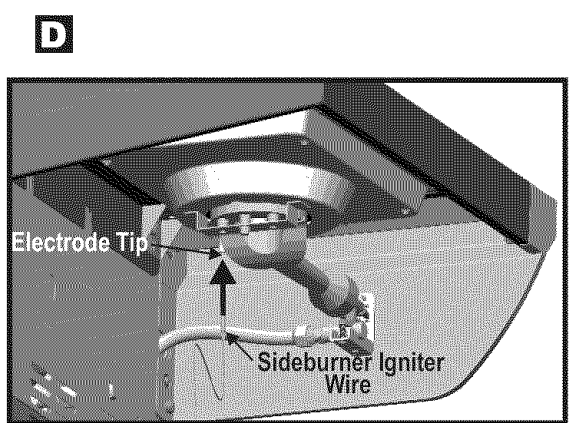
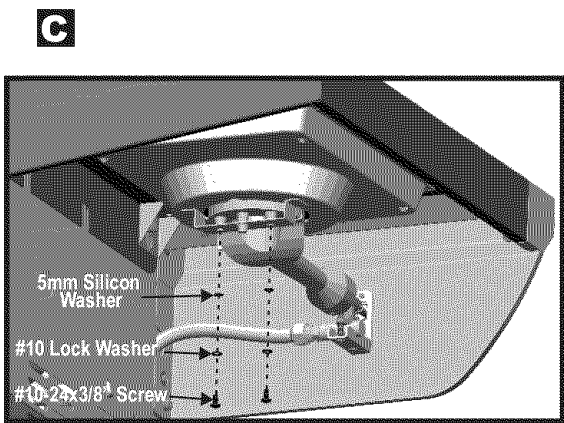
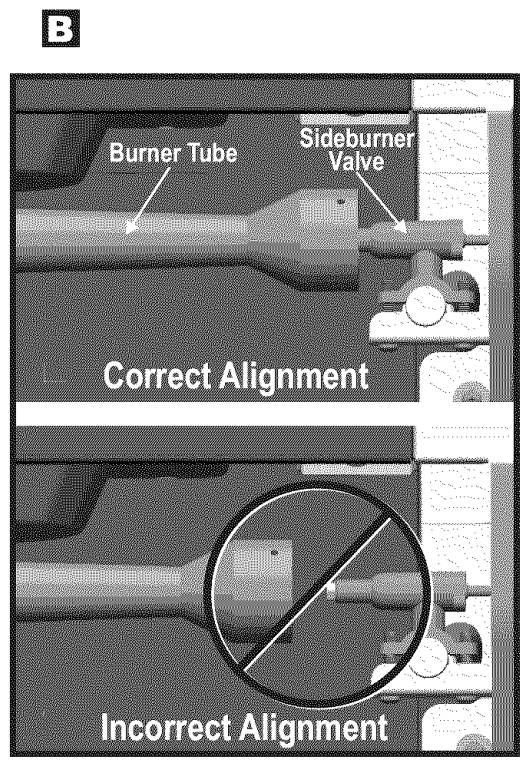
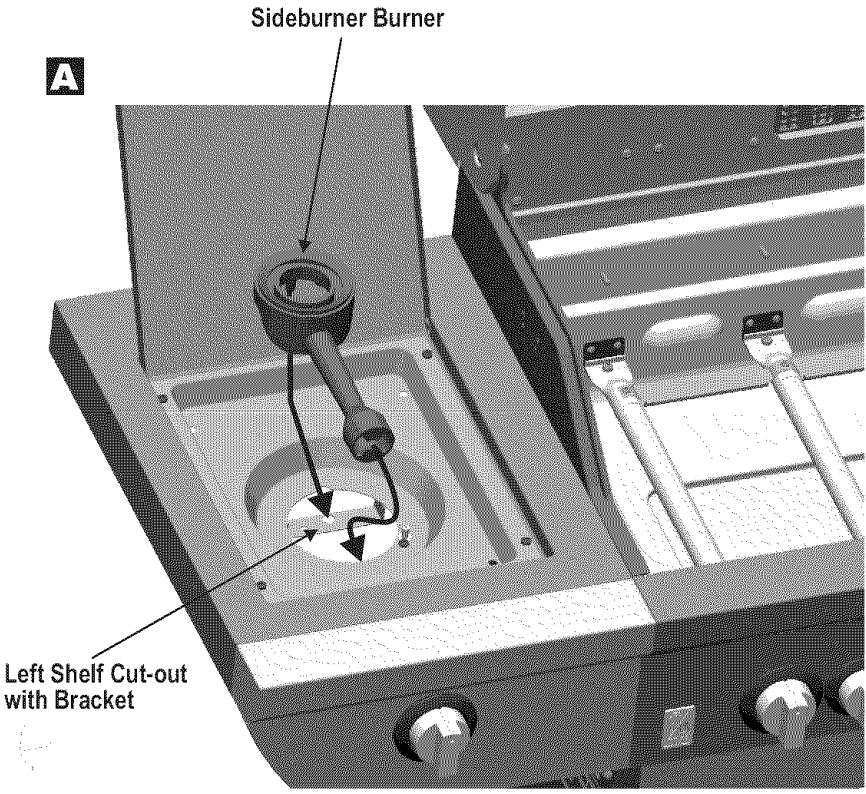
**B**



# 9

## Sideburner Burner

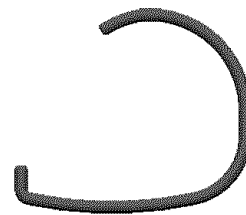
- Insert front of sideburner burner through left shelf cut-out shown **A**. Center stud on bottom rear of burner fits into center hole in burner bracket on left shelf.
- Make sure burner tube aligns correctly onto sideburner valve underneath left shelf shown **B**.
- Secure burner to bracket using two **#10-24x3/8"** screws and **5mm** silicon and **#10** lock washers shown **C**.
- Attach sideburner igniter wire from igniter module to electrode tip underneath left shelf shown **D**.



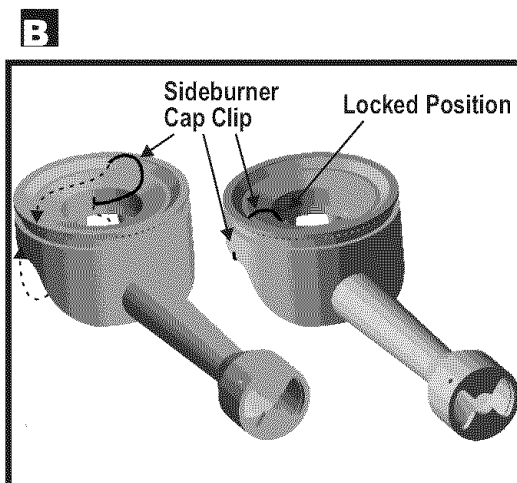
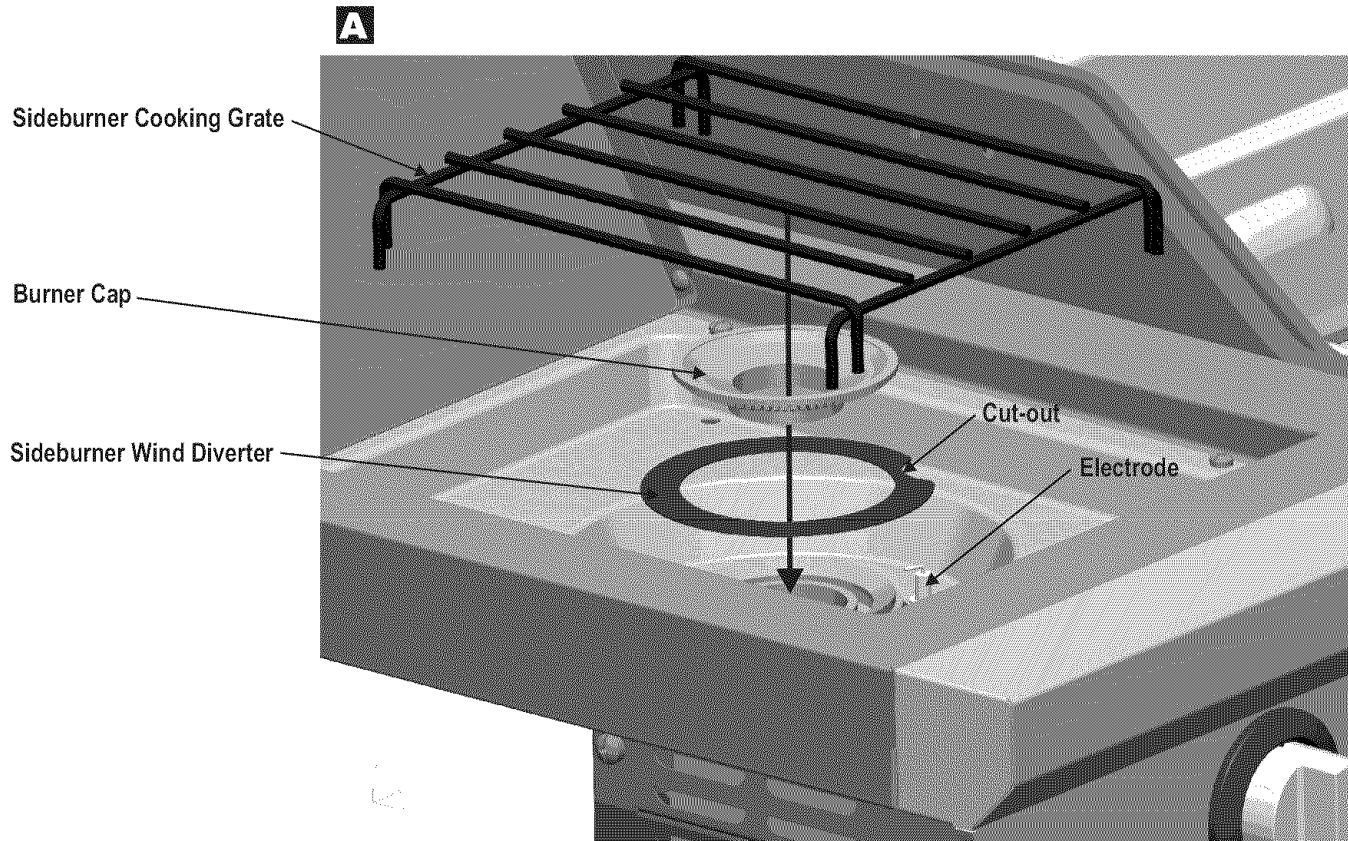
# 10

## Sideburner Wind Diverter, Sideburner Cap and Clip, Sideburner Grate

- Place sideburner wind diverter over sideburner aligning cut-out in diverter to fit around electrode shown **A**.
- Place burner cap onto sideburner and attach sideburner cap clip shown **B**.
- Place sideburner cooking grate onto sideburner shelf, aligning grate legs with holes in shelf shown **A**.



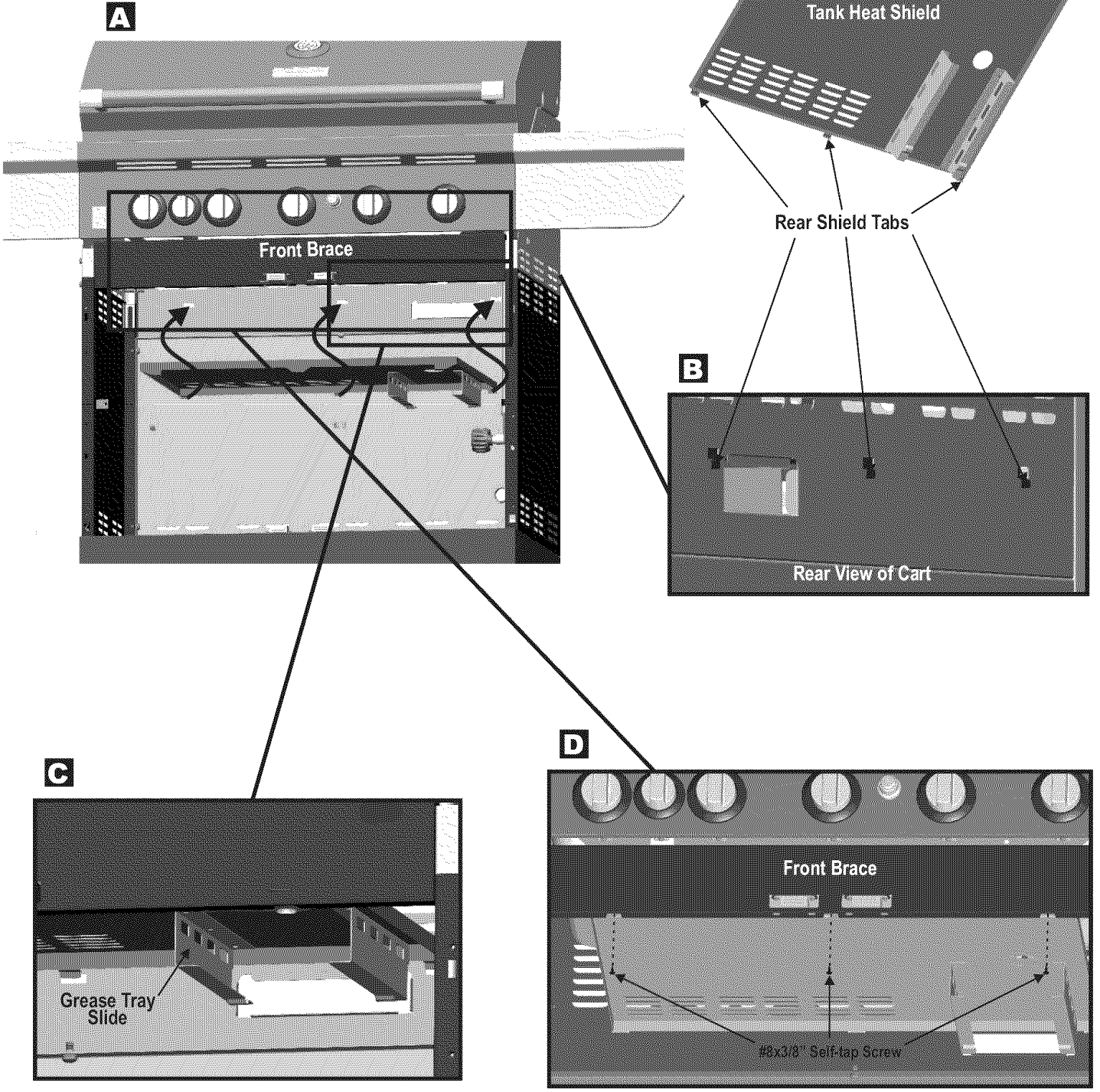
Sideburner Cap Clip



# 11

## Heat Shield Assembly

- Inside of cart shown **A**, insert rear shield tabs of tank heat shield through three cut out slots on upper back panel shown **A and B for rear view of cart**. Make sure grease tray slide is aligned with cut out in upper back panel shown **C**.
- Attach front shield tabs of tank heat shield under front brace using three **#8x3/8"** self-tapping screws shown **D**.

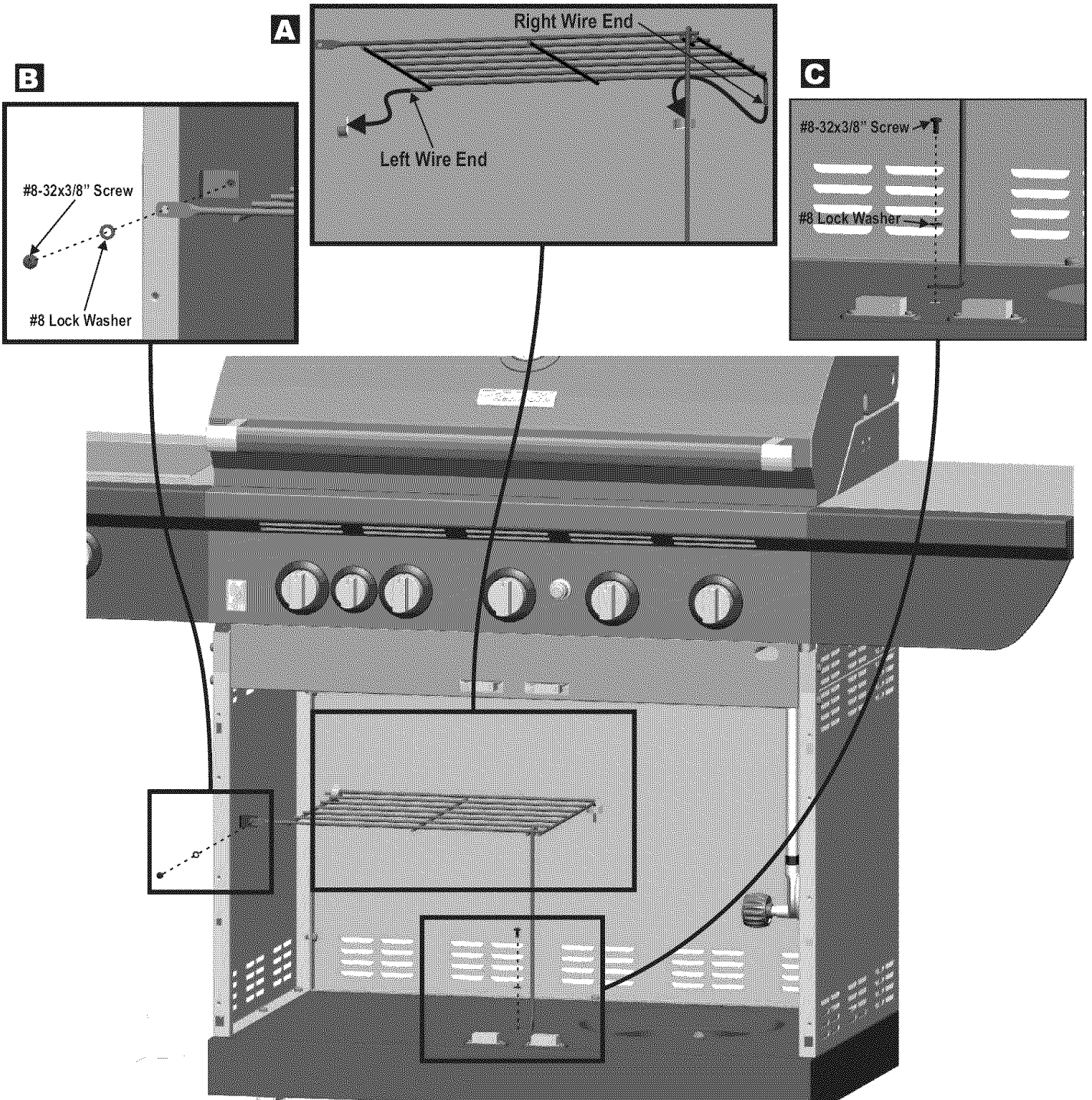
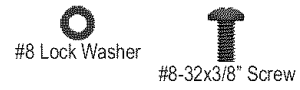




# 12

## Assembling Tank Exclusion Wire

- Insert rear left wire end of tank exclusion wire into lower back panel left slot, then lower right wire end into right slot shown **A**.
- Attach front right wire end of tank exclusion wire to the left side panel bracket using one **#8-32x3/8"** screw and **#8** lock washer shown **B**.
- Attach bottom wire end of tank exclusion wire to the bottom panel using one **#8-32x3/8"** screw and **#8** lock washer shown **C**.



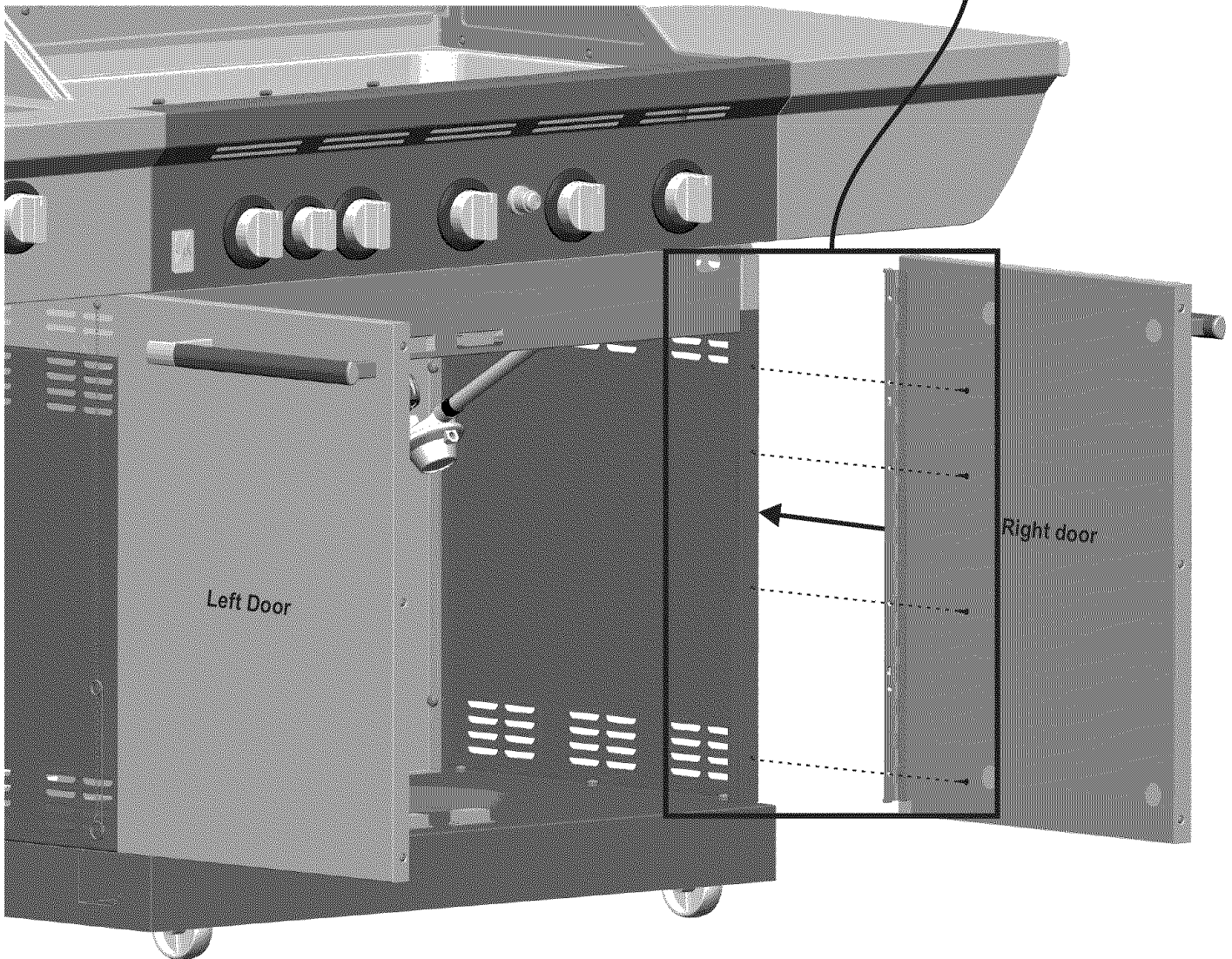
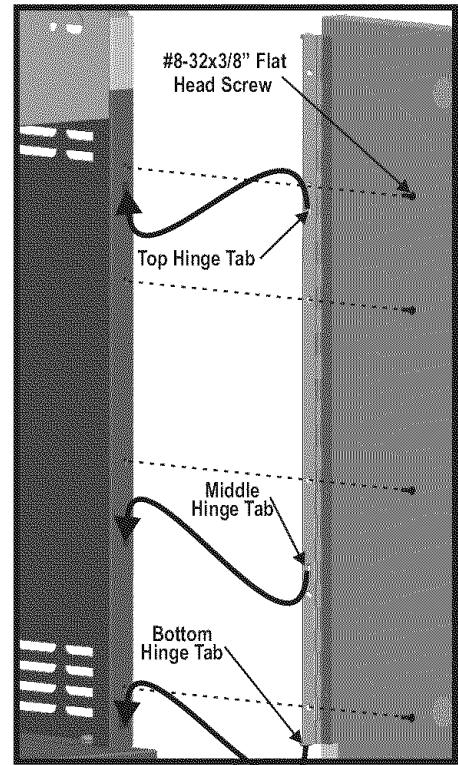
# 13

## Left Door and Right Door

- Attach each door by inserting top hinge tab into slot on front of cart side panel. Then insert bottom hinge tab into bottom slot on front of cart side panel making sure middle hinge tab also insert into middle slot.
- Secure each door to cart side panel using four #8-32x3/8 flat head screws.



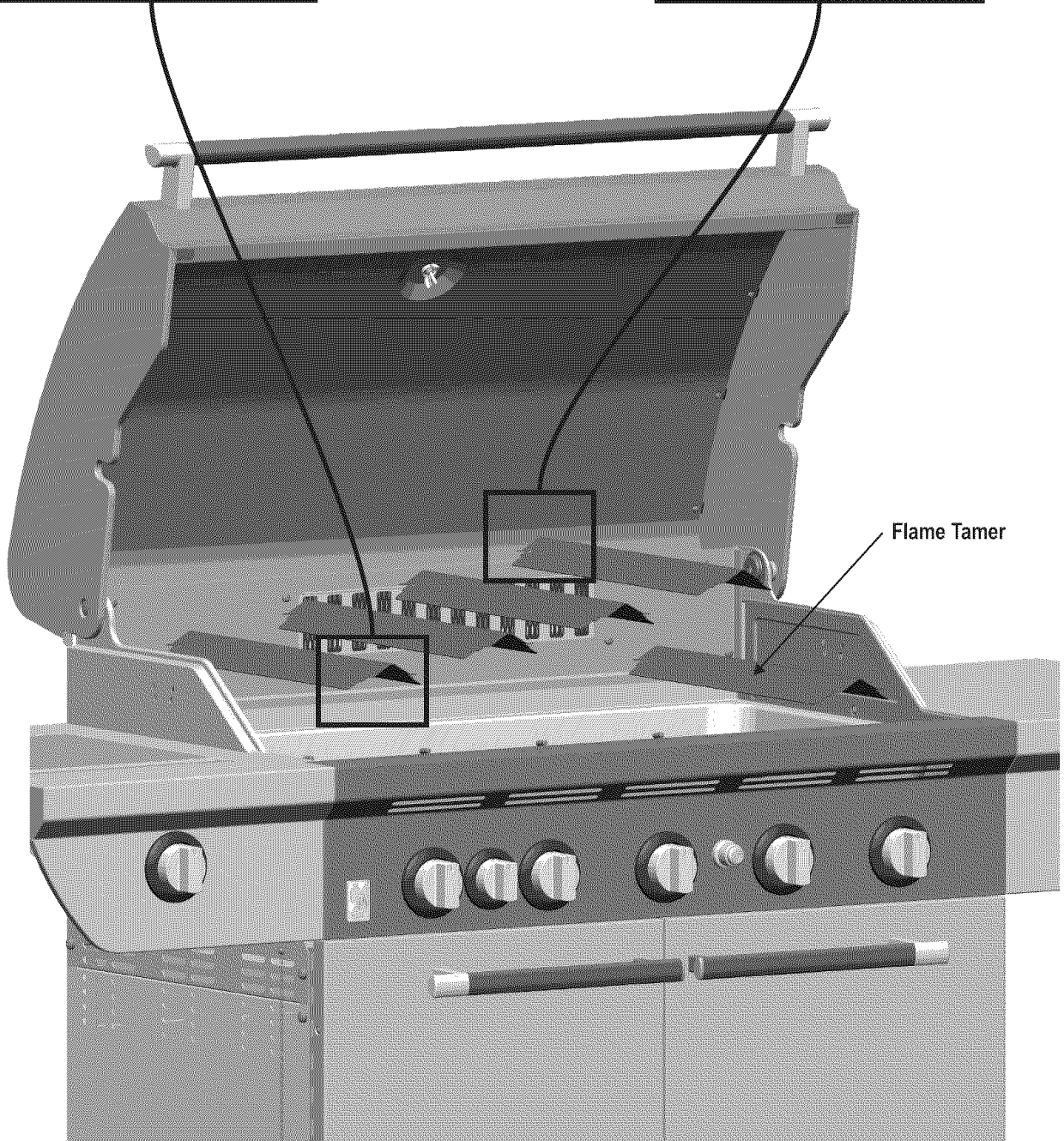
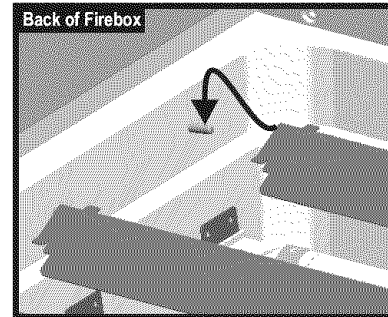
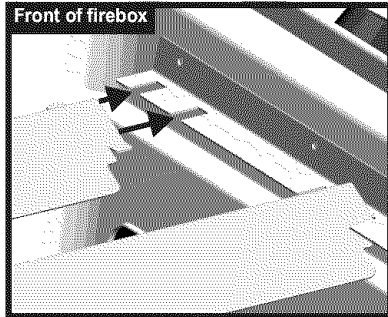
#8-32x3/8" Flat Head Screw



# 14

## Flame Tamers

- Install each flame tamer by inserting one end of flame tamer into slots at front of firebox bracket and resting opposite end on pin located at back of firebox.

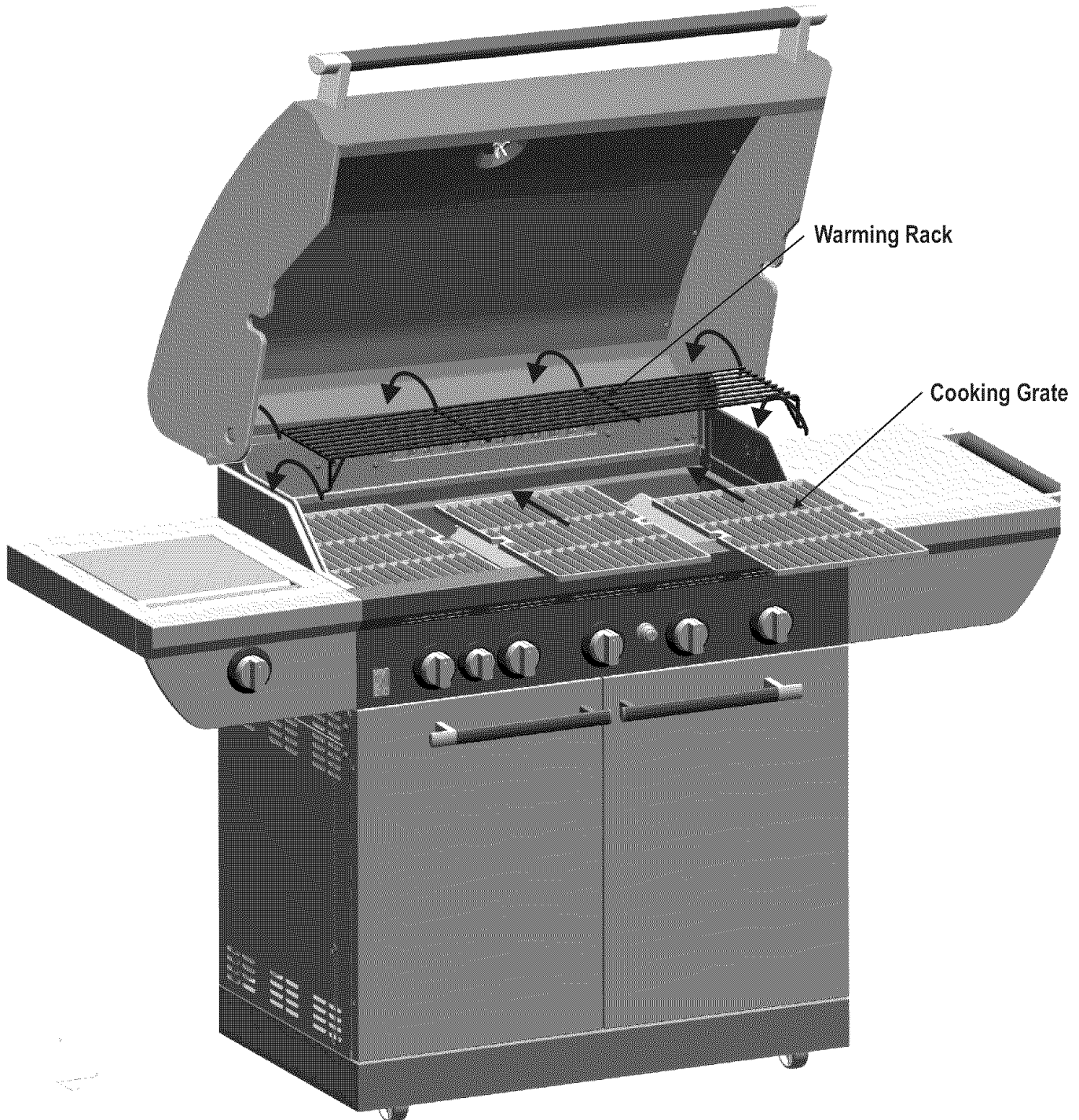
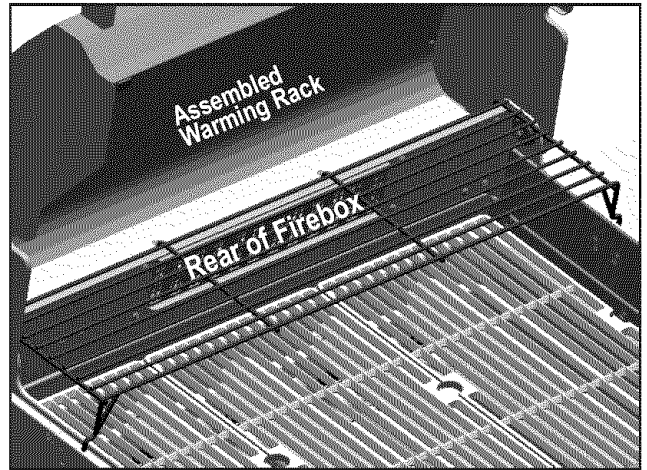


# 15

## Cooking Grate and Warming Rack

- Place cooking grates onto the firebox as shown.
- Insert the three wire ends at rear of warming rack into holes in rear of firebox.
- Front wires of warming rack rest on sides of firebox shown A.

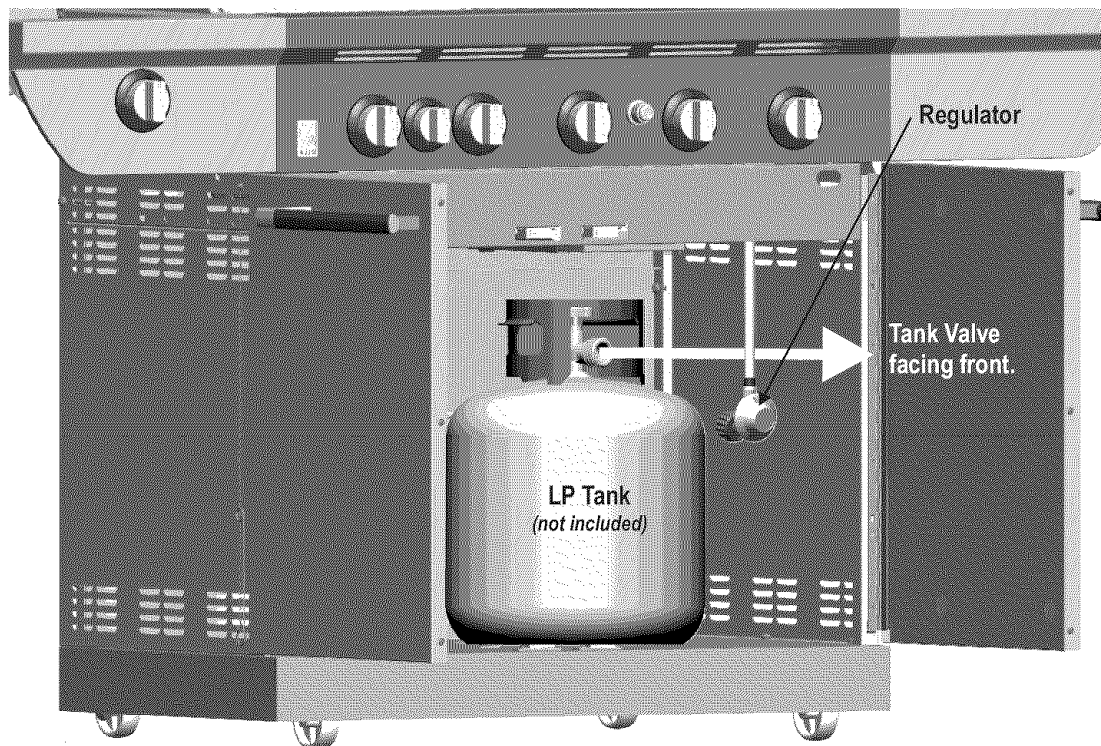
**A**



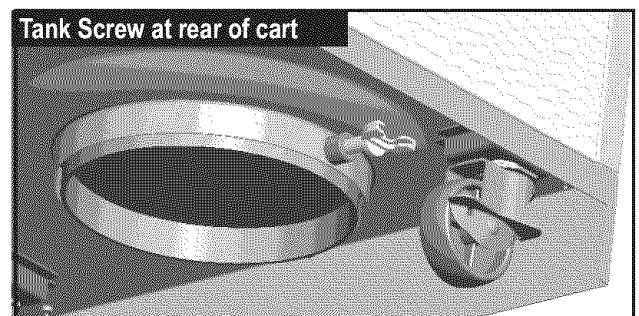
# 16

## LP Tank

- LP TANK IS SOLD SEPARATELY.** Fill and leak check the tank before attaching to grill and regulator (see Use & Care section).
- Once tank has been filled and leak checked, place cylinder into cut-out in bottom shelf. **Make sure tank valve is facing front of grill.**
- Secure tank with tank screw under bottom shelf. Insert regulator through large hole in left side panel. **See Use & Care section of this manual to perform the “Burner Flame Check” and for important safety instructions before using.**



	<b>CAUTION</b>	
<p>LP Tank valve must face to front of cart once tank is attached. Failure to install cylinder correctly may allow gas hose to be damaged in operation, resulting in the risk of fire.</p>		

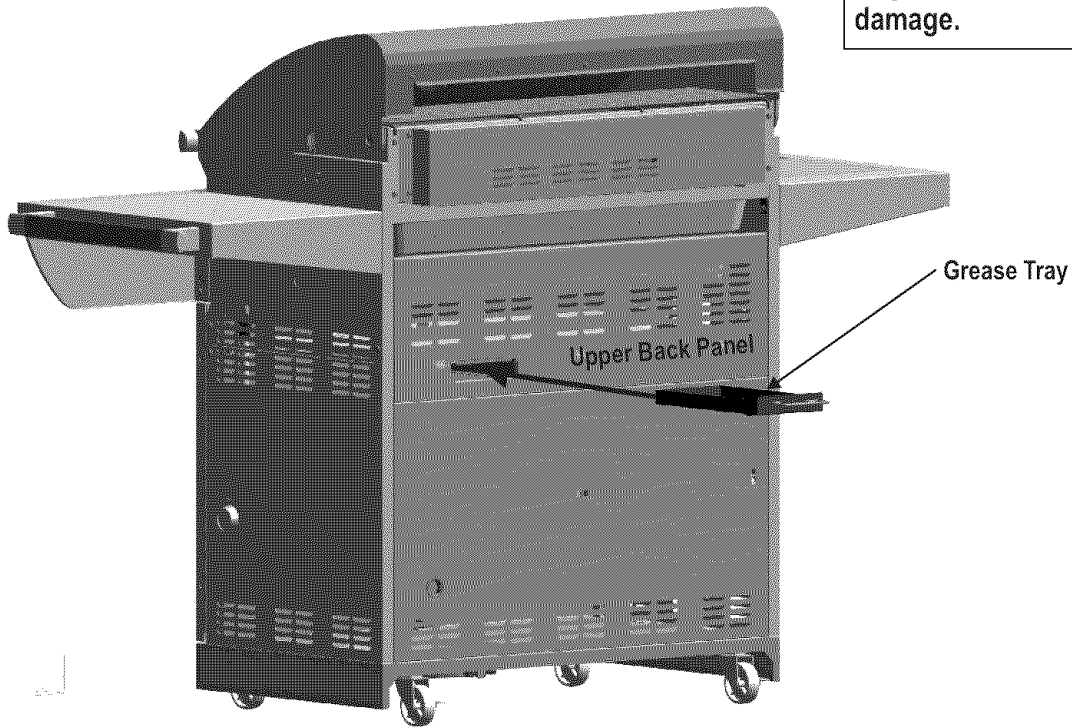


Always keep LP tank in upright position during use, transport, and storage.

# 17

## Grease Tray

- On back of grill, slide grease tray through opening on upper back panel.

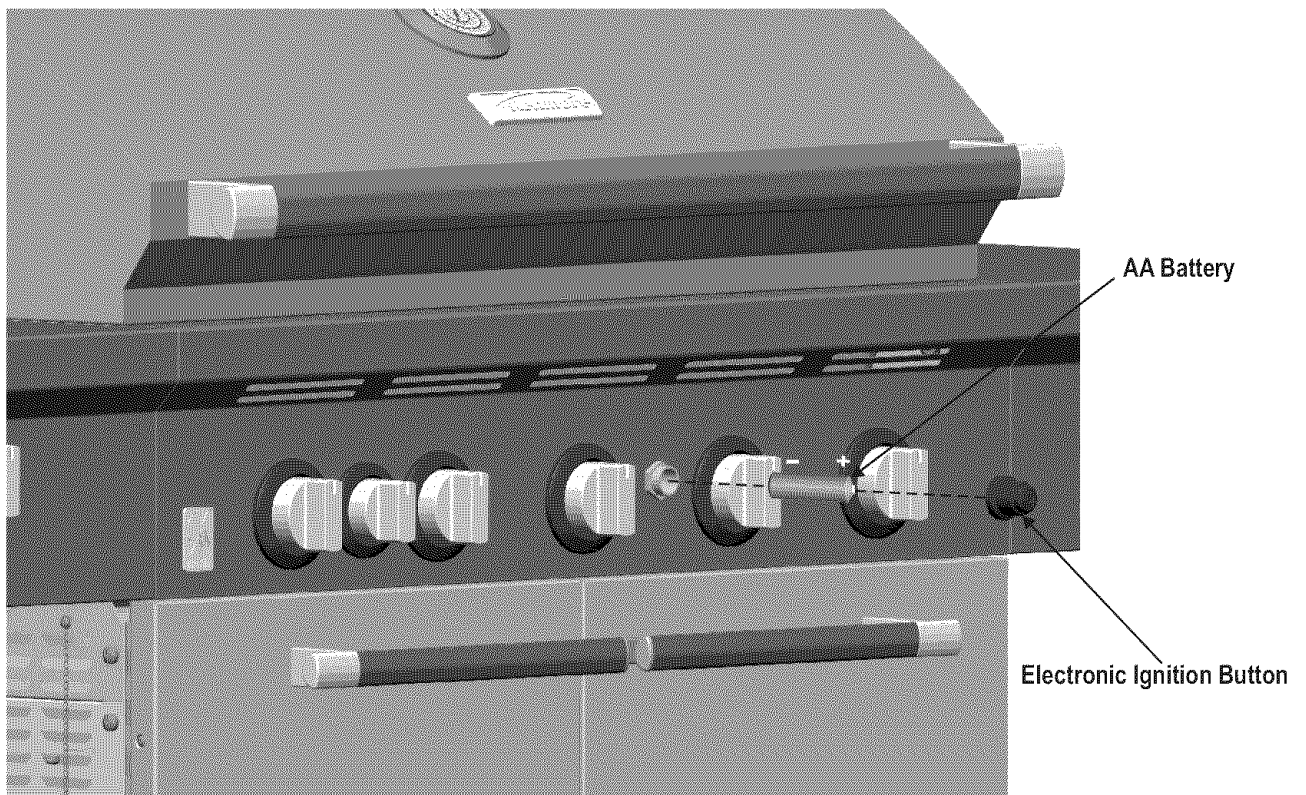


	<b>CAUTION</b>	
<p>Failure to install grease tray will cause hot grease to drip from bottom of grill with risk of fire or property damage.</p>		

# 18

## Assembling Electronic Ignition Button

- Unscrew electronic ignition button on front of control panel.
- Insert AA battery into ignitor, **negative (—) end first**. Replace button.



## Cooking Table

Cooking times and temperatures may vary according to specific recipes, cooking conditions or barbecue equipment used. Take these factors into consideration to insure best results. If you use the indirect cooking method (indirect cooking is lighting only one burner and placing food on opposite side of cooking grate), allow more grilling time.

Temperatures: High = 650°F / Medium = 450°F / Low = 300°F.

Food	Setting	Cooking Time
<b>Beef</b> Hamburger 1/2" thick	Medium	Med: 7-10 min. / Well done: 10-15 min.
Steak 1/2"	Medium-Hot	Rare: 3-6 min. / Med: 6-9 min. / Well done: 9-12 min.
Roast	Low	Rare: 18-22min. per lb. / Med: 22-28 min. per lb. / Well done: 28-32 min. per lb.
<b>Pork</b> Chops 1/2"	Medium	Well done: 15-20 min.
Ribs 5-6 lbs.	Low-Medium	Well done: 45-90 min.
Roast 3-5 lbs.	Low-Medium	Well done: 18-23 min. per lb.
Ham Steak 1/2"	Medium-Hot	12-15 min.
Ham 5 lb. fully cooked	Low-Medium	20 min. per lb.
<b>Lamb</b> Chops 1/2"	Medium	6-12 min.
<b>Poultry</b> Chicken 2-1/2 to 3-1/2 lbs.	Low	1 hr., 15 min. to 1 hr., 30 min.
Chicken halved or quartered	Low	40-60 min.
Turkey	Low-Medium	18-20 min. per lb.
<b>Seafood</b> Steaks 1" thick	Medium-Hot	Well done: 10-25 min.
Filletts 6-8 oz.	Medium-Hot	8-12 min.
Shrimp large or jumbo	Low-Medium	8-12 min.
<b>Venison</b> Steak 1" thick	Medium	Rare: 8-10 min. / Med: 10-12 min.
Burgers 1/2"	Medium	Rare: 10-12 min. / Med: 12-15 min.
Roast 3-4 lbs.	Low-Medium	Rare: 20-22 min. per lb. / Med: 22-25 min. per lb.
<b>Vegetables</b> Baking Potato whole	Low	<i>Wrap vegetables in foil</i> 55-60 min.
Onions whole	Low	45 min.
Tomatoes half	Medium	30-40 min.
Corn whole	Low	35-45 min.
Mushrooms	Medium	15-20 min.

**Troubleshooting Call 1-800-4-MY-HOME for Assistance if required.**

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

<b>Emergencies</b>	<b>Possible Cause</b>	<b>Prevention/Solution</b>
Gas leaking from cracked/cut/burned hose.	<ul style="list-style-type: none"> <li>Damaged hose.</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> </ul>
Gas leaking from LP tank.	<ul style="list-style-type: none"> <li>Mechanical failure due to rusting or mishandling.</li> </ul>	<ul style="list-style-type: none"> <li>Turn off LP tank valve.</li> </ul>
Gas leaking from LP tank valve.	<ul style="list-style-type: none"> <li>Failure of tank valve from mishandling or mechanical failure.</li> </ul>	<ul style="list-style-type: none"> <li>Turn off LP tank valve. Return LP tank to gas supplier.</li> </ul>
Gas leaking between LP tank and regulator connection.	<ul style="list-style-type: none"> <li>Improper installation, connection not tight, failure of rubber seal.</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> </ul>
Fire coming through control panel.	<ul style="list-style-type: none"> <li>Fire in burner tube section of burner due to partial blockage.</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> </ul>
<b>Troubleshooting: Problem</b>	<b>Possible Cause</b>	<b>Prevention/Solution</b>
Grease fire or continuous excessive flames above cooking surface.	<ul style="list-style-type: none"> <li>Too much grease buildup in burner area.</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> </ul>
Burner(s) will not light using ignitor.	<p><b>GAS ISSUES:</b></p> <ul style="list-style-type: none"> <li>Trying to light wrong burner.</li> <li>Burner not engaged with control valve.</li> <li>Obstruction in burner.</li> <li>No gas flow.</li> <li>Vapor lock at coupling nut to LP tank.</li> <li>Coupling nut and LP tank valve not fully connected.</li> </ul>	<ul style="list-style-type: none"> <li>See instructions on control panel and section in the Use and Care.</li> <li>Make sure valves are positioned inside of burner tubes.</li> <li>Ensure burner tubes are not obstructed with spider webs or other matter. See cleaning section of Use and Care.</li> <li>Make sure LP tank is not empty. If LP tank is not empty, refer to "Sudden drop in gas flow."</li> <li>Turn off knobs and disconnect coupling nut from LP tank. Reconnect and retry.</li> <li>Turn the coupling nut approximately one-half to three-quarters additional turn until solid stop. Tighten by hand only - do not use tools.</li> </ul>
	<p><b>ELECTRICAL ISSUES:</b></p> <ul style="list-style-type: none"> <li>Electrode cracked or broken; "sparks at crack."</li> <li>Electrode tip not in proper position.</li> <li>Wire and/or electrode covered with cooking residue.</li> <li>Wires are loose or disconnected.</li> <li>Wires are shorting (sparking) between ignitor and electrode.</li> </ul>	<ul style="list-style-type: none"> <li>Replace electrode.</li> <li>Tip of electrode should be pointing toward port hole in burner. The distance should be 1/8" to 3/16". Adjust if necessary.</li> <li>Clean wire and/or electrode with rubbing alcohol and clean swab.</li> <li>Reconnect wires or replace electrode/wire assembly.</li> <li>Replace ignitor wire.</li> </ul>

*Continued on next page.*



## Troubleshooting (continued)

Problem	Possible Cause	Prevention/Solution
Burner(s) will not light using ignitor.	<ul style="list-style-type: none"> <li>• Push-button sticks at bottom..</li> <li>• Sparking between ignitor and electrode.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace ignitor.</li> <li>• Inspect wire insulation and proper connection. Replace wires if insulation is broken.</li> </ul>
Burner(s) will not match light.	<ul style="list-style-type: none"> <li>• See “<b>GAS ISSUES:</b>” on previous page.</li> <li>• Improper method of match-lighting.</li> </ul>	<ul style="list-style-type: none"> <li>• See “Match-Lighting” section of Use and Care.</li> </ul>
Sudden drop in gas flow or low flame.	<ul style="list-style-type: none"> <li>• Out of gas.</li> <li>• Excess flow valve tripped.</li> <li>• Vapor lock at coupling nut/LP tank connection.</li> </ul>	<ul style="list-style-type: none"> <li>• Check for gas in LP tank.</li> <li>• 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.</li> <li>• Turn off knobs and LP tank valve. Disconnect coupling nut from tank. Reconnect and retry.</li> </ul>
Flames blow out.	<ul style="list-style-type: none"> <li>• High or gusting winds.</li> <li>• Low on LP gas.</li> <li>• Excess flow valve tripped.</li> </ul>	<ul style="list-style-type: none"> <li>• Turn front of grill to face wind or increase flame height.</li> <li>• Refill LP tank.</li> <li>• Refer to “Sudden drop in gas flow” above.</li> </ul>
Flare-up.	<ul style="list-style-type: none"> <li>• Grease buildup.</li> <li>• Excessive fat in meat.</li> <li>• Excessive cooking temperature.</li> </ul>	<ul style="list-style-type: none"> <li>• Clean burners and inside of grill/firebox.</li> <li>• Trim fat from meat before grilling.</li> <li>• Adjust (lower) temperature accordingly.</li> </ul>
Persistent grease fire.	<ul style="list-style-type: none"> <li>• Grease trapped by food buildup around burner system.</li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Flashback... (fire in burner tube(s)).	<ul style="list-style-type: none"> <li>• Burner and/or burner tubes are blocked.</li> </ul>	<ul style="list-style-type: none"> <li>• Turn knobs to OFF. Clean burner and/or burner tubes. See burner cleaning section of Use and Care manual.</li> </ul>
Unable to fill LP tank.	<ul style="list-style-type: none"> <li>• Some dealers have older fill nozzles with worn threads.</li> </ul>	<ul style="list-style-type: none"> <li>• The worn nozzles don't have enough “bite” to engage the valve. Try a second LP dealer.</li> </ul>
One burner does not light from other burner(s).	<ul style="list-style-type: none"> <li>• Grease buildup or food particles in end(s) of carryover tube(s).</li> </ul>	<ul style="list-style-type: none"> <li>• Clean carry-over tube(s) with wire brush.</li> </ul>

## Troubleshooting - Electronic Ignition

Problem (Ignition)	Possible Cause	Check Procedure	Prevention/Solution
<p><b>SECTION I</b> No sparks appear at any electrodes when ignition button is pushed; no noise can be heard from spark module.</p>	<ul style="list-style-type: none"> <li>• Battery not installed properly.</li> <li>• Dead battery.</li> <li>• Button assembly not installed properly.</li> <li>• Faulty spark module.</li> </ul>	<ul style="list-style-type: none"> <li>• Check battery orientation.</li> <li>• Has battery been used previously?</li> <li>• Check to ensure button assembly is fully engaged. Button should travel up and down without binding.</li> <li>• If no sparks are generated with new battery and good wire connections, module is faulty.</li> </ul>	<ul style="list-style-type: none"> <li>• Install battery (make sure that “-” and “+” connectors are oriented correctly, with “-” end up and “+” end down.)</li> <li>• Replace battery with new AAA-size alkaline battery.</li> <li>• Remove button cap assembly and reinstall, making sure it can be fully engaged.</li> <li>• Replace spark module assembly.</li> </ul>
<p><b>SECTION II</b> No sparks appear at any electrodes when ignition switch is pushed; noise can be heard from spark module.</p>	<ul style="list-style-type: none"> <li>• Output lead wires not connected.</li> <li>• Electrode tip not in proper position.</li> </ul>	<ul style="list-style-type: none"> <li>• Are output lead wires on and tight?</li> <li>• Are the electrode tips pointing in the right direction? Is the gap too big?</li> </ul>	<ul style="list-style-type: none"> <li>• Remove and reconnect all output lead wires at module and electrodes.</li> </ul> <p>Main Burners:</p> <ul style="list-style-type: none"> <li>• Tip of electrode should be pointing toward port hole in burner. The distance should be 1/8” to 3/16”.</li> </ul> <p>Adjust if necessary.</p> <p>Sideburner:</p> <ul style="list-style-type: none"> <li>• Tip of electrode should be pointing toward gas port opening on burner. The distance should be 1/8” to 3/16”.</li> </ul> <p>Adjust if necessary.</p>
<p><b>SECTION III</b> Sparks are present but not at all electrodes and/or not at full strength</p>	<ul style="list-style-type: none"> <li>• Output lead wires not connected.</li> <li>• Arcing to grill away from burner(s).</li> <li>• Weak battery.</li> <li>• Electrodes are wet.</li> <li>• Electrodes cracked or broken “sparks at crack”.</li> </ul>	<ul style="list-style-type: none"> <li>• Are output lead wires on and tight?</li> <li>• If possible, observe grill in dark location. Operate ignition system and look for arcing between output wires and grill frame.</li> <li>• All sparks present but weak or at slow rate.</li> <li>• Has moisture accumulated on electrode and/or in burner ports?</li> <li>• Inspect electrodes for cracks.</li> </ul>	<ul style="list-style-type: none"> <li>• Remove and reconnect all output lead wires at module and electrodes.</li> <li>• If sparks are observed other than from burner(s), wire insulation may be damaged. Replace wires.</li> <li>• Replace battery with a new AAA-size alkaline battery.</li> <li>• Use paper towel to remove moisture.</li> <li>• Replace cracked or broken electrodes.</li> </ul>

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