



Liquid Propane Gas Grill

Kenmore Model No. 415.16505900

Kmart Item No. 640-175289115

This Grill is for Outdoor Use Only



	WARNING	
<ul style="list-style-type: none">• Read and follow all Safety, Assembly, and Use and Care Instructions in this Guide before assembling and cooking with this grill.• Failure to follow all instructions in this Use and Care Guide may lead to fire or explosion, which could result in property damage, personal injury or death.		

- Safety
- Parts
- Use and Care
- Assembly

Assembly Questions?

Call 1-800-241-7548

Tools needed for assembly:

Adjustable wrench (not provided)

Screwdriver (not provided)

7/16" Combination wrench (not provided)

SAVE THESE INSTRUCTIONS!

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 Tank 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 _____

To Installer/Assembler: Leave these instructions with consumer.

To Consumer: Keep this manual for future reference.

 **CAUTION** 

- Some parts may contain sharp edges, especially as noted in these instructions. Wear protective gloves if necessary.

 **CAUTION** 

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

 **WARNING** 

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** 

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

 **WARNING** 

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

 **CAUTION** 

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®**

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).

Three-Year Limited Warranty on Burners

For three 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.

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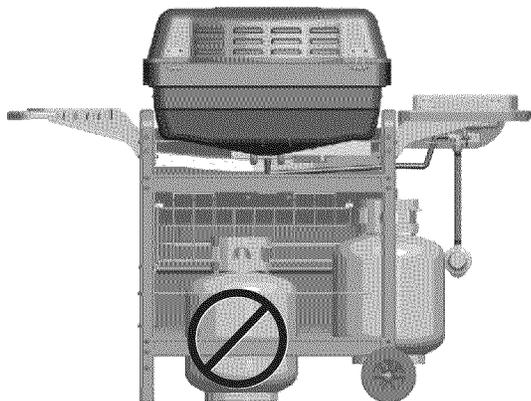
USE AND CARE



DANGER



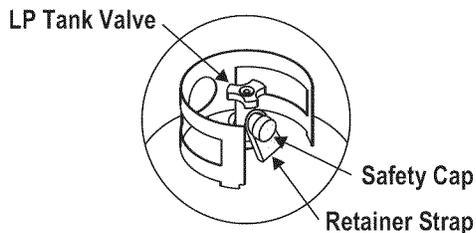
- **NEVER** store a spare LP cylinder under or near the appliance or in an enclosed area.



- Never fill a cylinder beyond 80% full.
- If the information in two points above is not followed exactly, a fire causing death or serious injury may occur.
- An over filled or improperly stored cylinder is a hazard due to possible gas release from the safety relief valve. This could cause an intense fire with risk of property damage, serious injury or death.
- If you see, smell or hear gas escaping, immediately get away from the LP cylinder/appliance and call your fire department.

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.

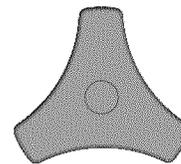
LP Tank

- 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.**



OPD Hand Wheel

- 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.**

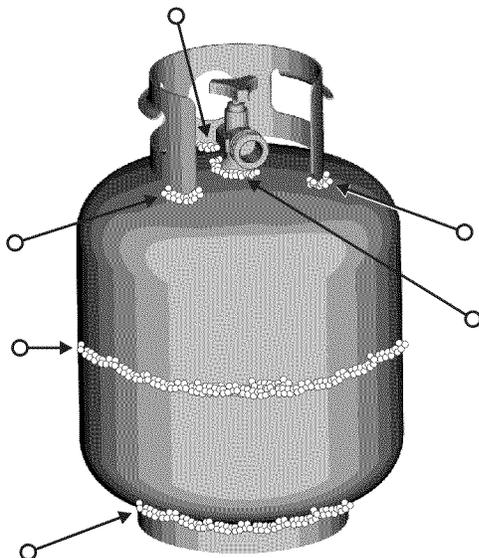
LP Tank Leak Test

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.

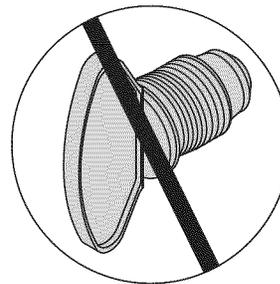
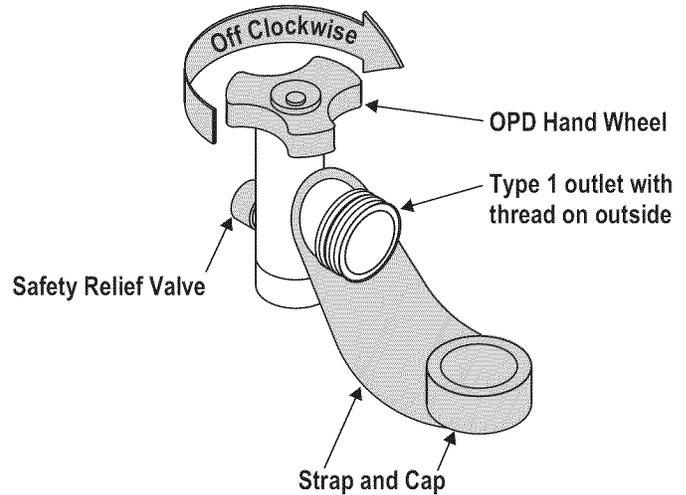
	WARNING	
If "growing" bubbles appear do not use or move the LP tank. Contact an LP gas supplier or your fire department!		

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



Connecting Regulator To The LP Tank

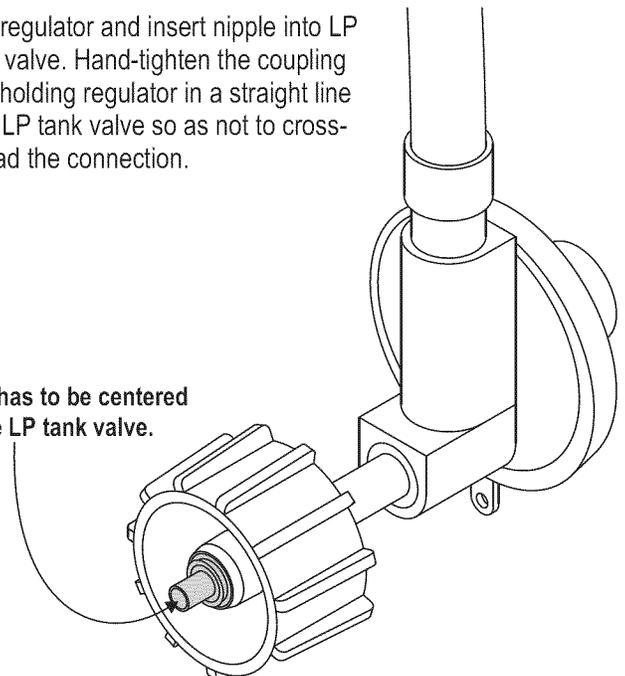
1. LP tank must be properly secured onto grill. (Refer to assembly section.)
2. Turn all control knobs to the OFF position.
3. Turn LP tank OFF by turning OPD hand wheel clockwise to a full stop.
4. Remove the protective cap from LP tank valve. Always use cap and strap supplied with valve.

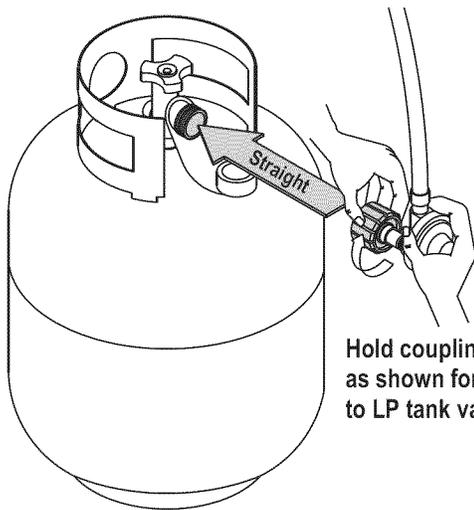


Do not use a POL transport plug (plastic part with external threads)! It will defeat the safety feature of the valve.

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:

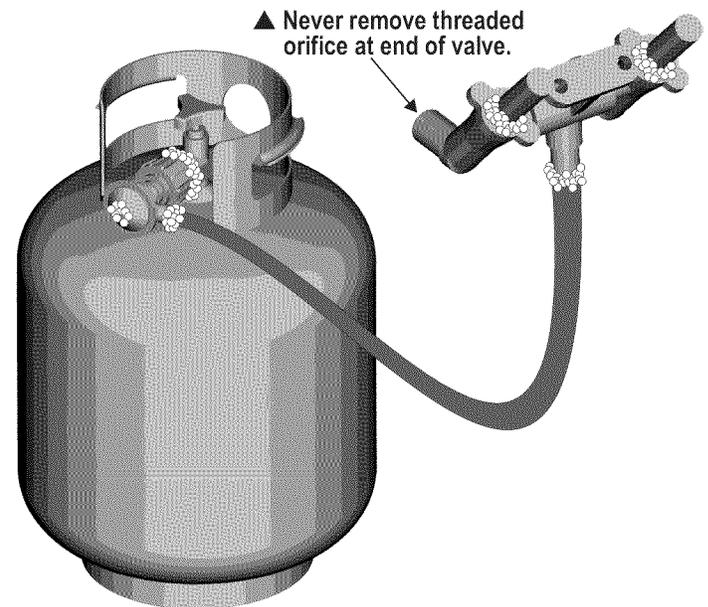
If you cannot complete the connection, disconnect regulator and repeat steps 5 and 6. If you are still unable to complete the connection, **do not use this regulator!**

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

	WARNING	
<ul style="list-style-type: none"> 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, <i>immediately</i> close LP cylinder 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.

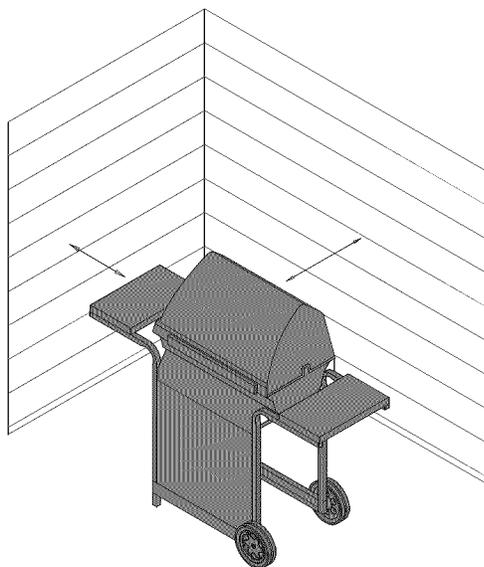


WARNING



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 cylinder valve, check the coupling nut for tightness.
- ▲ When grill is not in use, turn off all control knobs and LP cylinder valve.
- ▲ If the outdoor cooking gas appliance is not in use, the gas must be turned off at the supply cylinder. Storage of an outdoor cooking gas appliance indoors is permissible only if the cylinder is disconnected and removed from the appliance.
- ▲ 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 side shelves is 10 lbs.
- ▲ The grease cup **must** be inserted into grease 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.
- ▲ Only use the pressure regulator and hose assembly supplied with this grill. Replacement pressure regulator and hose assemblies must be specified or supplied by Char-Broil, LLC.
- ▲ If you have a grill problem see the "Troubleshooting Section".
- ▲ 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!



CAUTION



- **Putting out grease fires by closing the lid is not possible. Grills are well ventilated for safety reasons.**
- **Do not use water on a grease fire. Personal injury may result. If a grease fire develops, turn knobs and LP cylinder off.**
- **Do not leave grill unattended while preheating or burning off food residue on HI. If grill has not been regularly cleaned, a grease fire can occur that may damage the product.**

Main burner Ignitor Lighting

▲ Do not lean over grill while lighting.

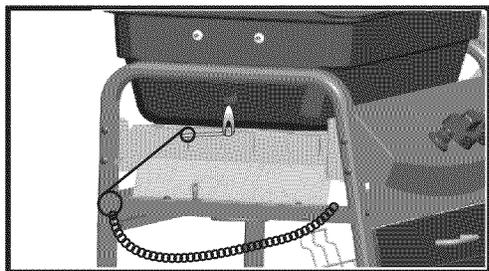
1. Open lid during lighting.
2. Turn ON valve from source or tank.
3. Push and turn Ignition Burner control knob to ➤ HI and immediately press and hold Electronic Ignition button.
4. If ignition does NOT occur in 5 seconds, turn Left Burner control knob OFF, wait 5 minutes, and repeat the lighting instructions.
5. To Light Main Burner, 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 pre-heat grill. Then turn knob to desired setting for cooking.

	<h1>CAUTION</h1>	
<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>		

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).
3. Push in and turn left knob to ➤ HI position. Be sure burner lights and stays lit.
4. Light right burner by pushing knob in and turning to ➤ HI position.



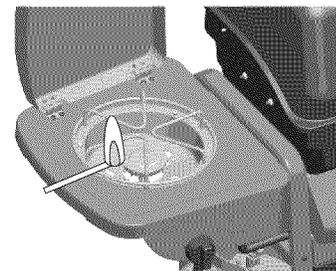
Sideburner Ignitor Lighting

▲ Do not lean over grill while lighting.

1. Open lid or cover for Side Burner during lighting.
2. Turn ON valve from source or tank.
3. Push and turn Side Burner control knob to ➤ HI and immediately press and hold Electronic Ignition button.
4. If ignition does NOT occur in 5 seconds, turn Side Burner control knob OFF, wait 5 minutes, and repeat the lighting instructions.
If ignitor does not work, follow match lighting instructions.
After Lighting: Turn knobs to HI position for warm-up.

Sideburner Match Lighting

1. Turn OFF all burner control valves.
2. Open sideburner lid (if equipped).
Turn on gas at LP cylinder.
3. Place lit match near burner.
4. Turn sideburner knob to ➤ HI. Be sure burner lights and stays lit.

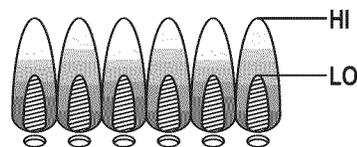


Before Your First Cookout

- 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.

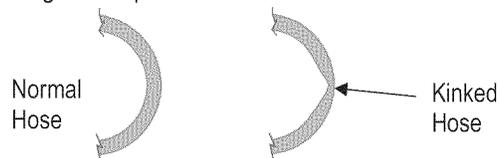
Burner Flame Check

- 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.



	<h1>CAUTION</h1>	
<p>•Putting out grease fires by closing the lid is not possible. Grills are well ventilated for safety reasons.</p> <p>•Do not use water on a grease fire. Personal injury may result. If a grease fire develops, turn knobs and LP tank off.</p> <p>•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.</p>		

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

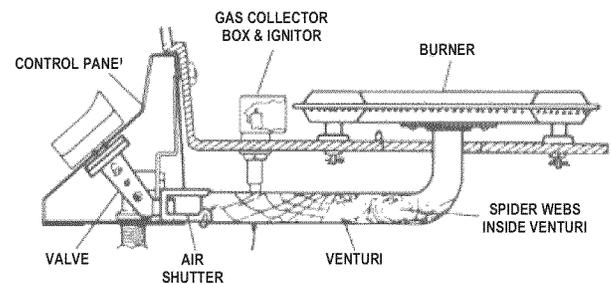
- Keep the outside of your grill looking new by cleaning it once a month with warm soap and water or a non-abrasive cleaner. If you don't have a grill cover, wipe off dust and grime before starting your grill.
- Coating the cooking grids with spray-on cooking oil will keep the food from sticking and 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.
- **Painted surfaces:** Wash with mild detergent or nonabrasive cleaner and warm soapy water. Wipe dry with a soft nonabrasive cloth.
- **Stainless steel surfaces:** To maintain your grill's high quality appearance, wash with mild detergent and warm soapy water and wipe dry with a soft cloth after each use. Baked-on grease deposits may require the use of an abrasive plastic cleaning pad. Use only in direction of brushed finish to avoid damage. Do not use abrasive pad on areas with graphics.
- **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.



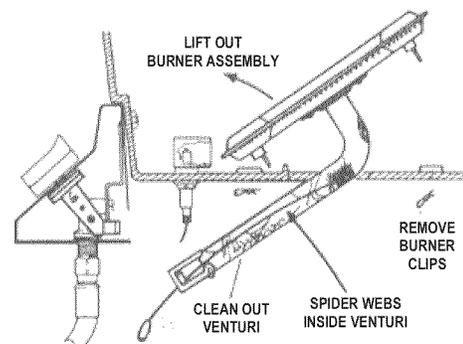
CAUTION



SPIDER ALERT!



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 venturi'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 venturi tube(s) obstructing the flow of gas to the burner. The backed-up gas can ignite in the venturi 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 and venturi assembly should be removed from the grill and cleaned before use whenever the grill has been idle for an extended period.

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.

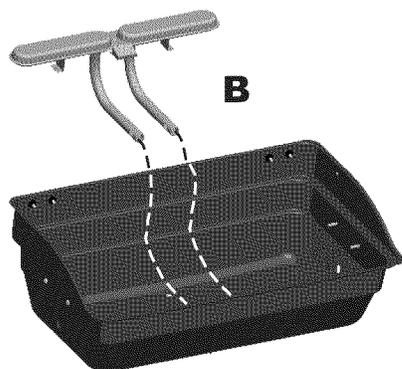
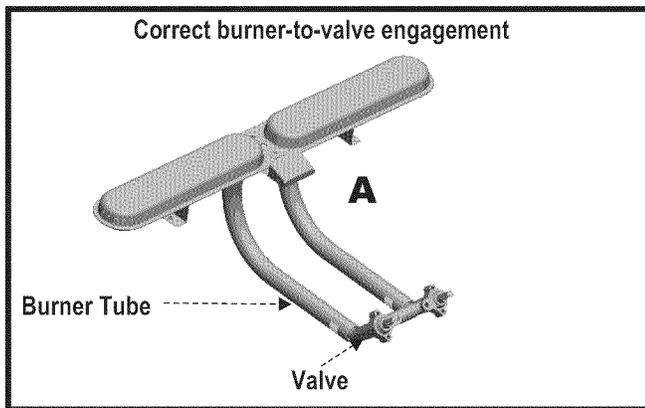
Cleaning the Burner Assembly

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 grate and heat tent.
3. Under grill remove grease cup, disconnect ignitor wire from burner.
4. Inside grill remove burner assembly (A), clean ceramic portion of electrode with rubbing alcohol and a swab.
5. Clean outside of burner with soap and water. Lay burner upside down on flat surface, insert garden hose to force water through tubes. Make sure water comes out of all burner holes. Open clogged holes with a thin wire. Shake out excess water and examine holes. Due to normal wear and corrosion some holes may become enlarged. If any large cracks or holes are found replace burner.
6. If grill is to be stored, coat burner lightly with cooking oil. Wrap in protective cover to keep insects out.
7. If not storing grill after cleaning, replace burner into grill bottom.

VERY IMPORTANT: Burner tubes must re-engage valve openings. See illustration (A).

8. Reattach ignitor wire to electrode.
9. Reposition heat tent and cooking grate. Reattach clean grease cup to grease clip.
10. Before cooking again on grill, perform a "Leak Test" and "Burner Flame Check".



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 165° 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.

WARNING: To ensure that it is safe to eat, food must be cooked to the minimum internal temperatures listed in the table below.

USDA* Safe Minimum Internal Temperatures	
Fish	145°F
Pork	160°F
Egg Dishes	160°F
Steaks and Roasts of Beef, Veal or Lamb	145°F
Ground Beef, Veal or Lamb	160°F
Whole Poultry (Turkey, Chicken, Duck, etc.)	165°F
Ground or Pieces Poultry (Chicken Breast, etc.)	165°F

*United States Department of Agriculture

PARTS LIST

Key	Qty	Description	Part #
1	2	UPPER SUPPORT, F/ LEGS	80009811
2	1	LEG (WHEEL), LEFT, FRONT, CURVED	80009831
3	1	LEG (WHEEL), LEFT, BACK, STRAIGHT	80009830
4	1	SIDE BRACE F/ TANK RETAINER BRACKET	80009815
5	2	BRACKET, TANK SUPPORT	80009834
6	1	LEG, RIGHT, FRONT, CURVED	80009819
7	1	LEG, RIGHT, BACK, STRAIGHT	80009822
8	2	LEG EXTENDER, PLASTIC	80009820
9	1	FRONT PANEL MAGNET	80018416
10	1	UPPER FRONT PANEL, FOLDING	80017873
11	1	LOWER FRONT PANEL	80018420
12	1	TOP BRACE, F/ FOLDING PANEL	80018422
13	2	BACK BRACE	80009833
14	2	TANK EXCLUSION WIRE	80017474
15	2	WHEEL	80010191
16	1	AXLE ROD	80009835
17	1	CONTROL PANEL, MAIN	80017872
18	1	SUPPORT, FIREBOX, LEFT	80009838
19	1	SUPPORT, FIREBOX, RIGHT	80009839
20	1	VALVE\HOSE\REGULATOR ASSY	80018095
21	1	ELECTRONIC IGNITION MODULE	80014484
22	1	BUTTON, F/ ELECTRONIC IGNITION MODULE	80014444
23	1	HEAT SHIELD, F/ ELECTRONIC IGNITION MODULE	80014458
24	1	HEAT SHIELD, F/ TANK	80009837
25	1	RETAINER, TANK	80007961
26	1	FRONT PANEL HANDLE	80017878
27	1	CONDIMENT BASKET	80017877
28	1	BURNER, MAIN	80017864
29	1	COLLECTOR/ ELECTRODE ASSY	80012227
30	1	FIREBOX	80017862
31	3	CONTROL KNOB	80000035
32	1	MOUNTING BRACKET, F/ PLASTIC SIDE SHELF, BACK	80017921
33	1	MOUNTING BRACKET, F/ PLASTIC SIDE SHELF, FRONT	80017920
34	1	RIGHT SIDE SHELF	80012073
35	1	MOUNTING BRACKET, F/ SB SHELF, BACK	80009809
36	1	MOUNTING BRACKET, F/ SB SHELF, FRONT	80009810
37	1	LEFT SIDE SHELF F/ SB	80017870
38	1	MATCH HOLDER	80004320

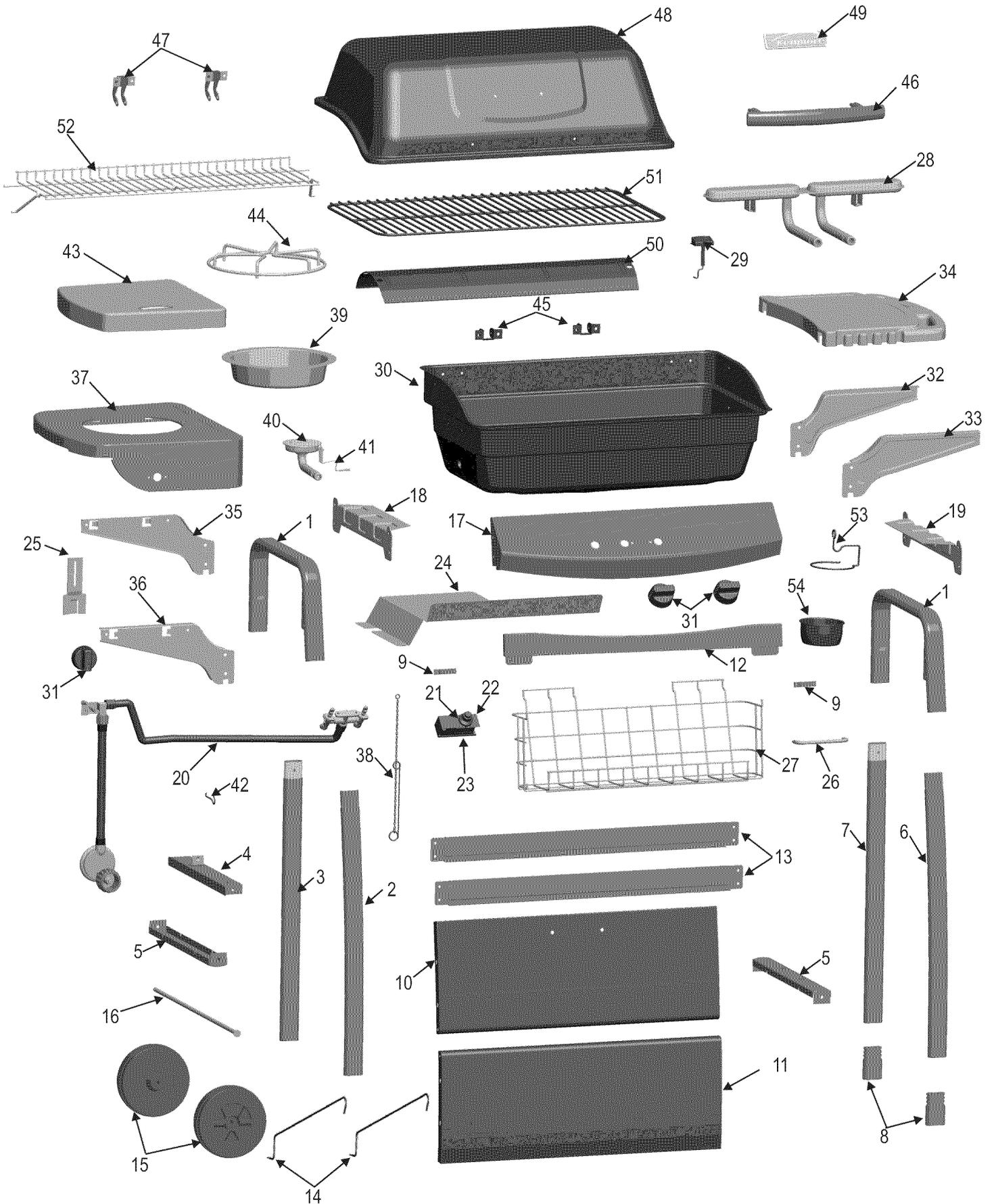
Key	Qty	Description	Part #
39	1	DRIP PAN, F/ SB	80006246
40	1	SIDEBURNER	80013817
41	1	ELECTRODE W/ WIRE, F/ SIDEBURNER	80017658
42	1	BURNER CLIP F/ SIDE BURNER	80011110
43	1	LID, F/ SIDEBURNER	80013818
44	1	SIDEBURNER GRATE	80009728
45	2	HINGE, LOWER, F/ TOP LID	80009944
46	1	HANDLE, F/ TOP LID	80009845
47	2	HINGE, UPPER, F/ TOP LID	80010091
48	1	TOP LID	80017867
49	1	LOGO PLATE	80018437
50	1	HEAT DIFFUSER	80017876
51	1	COOKING GRATE	80009841
52	1	SWINGAWAY GRID	80009825
53	1	CLIP, F/ GREASE CUP	80000271
54	1	GREASE CUP	80000270

NOT Pictured

...	1	HARDWARE PACK	80017880
...	1	ASSEMBLY MANUAL, ENGLISH	80017881
...	1	ASSEMBLY MANUAL, SPANISH	80018593

If you are missing hardware or have damaged parts, please call 1-800-241-7548 for replacement.

PARTS DIAGRAM

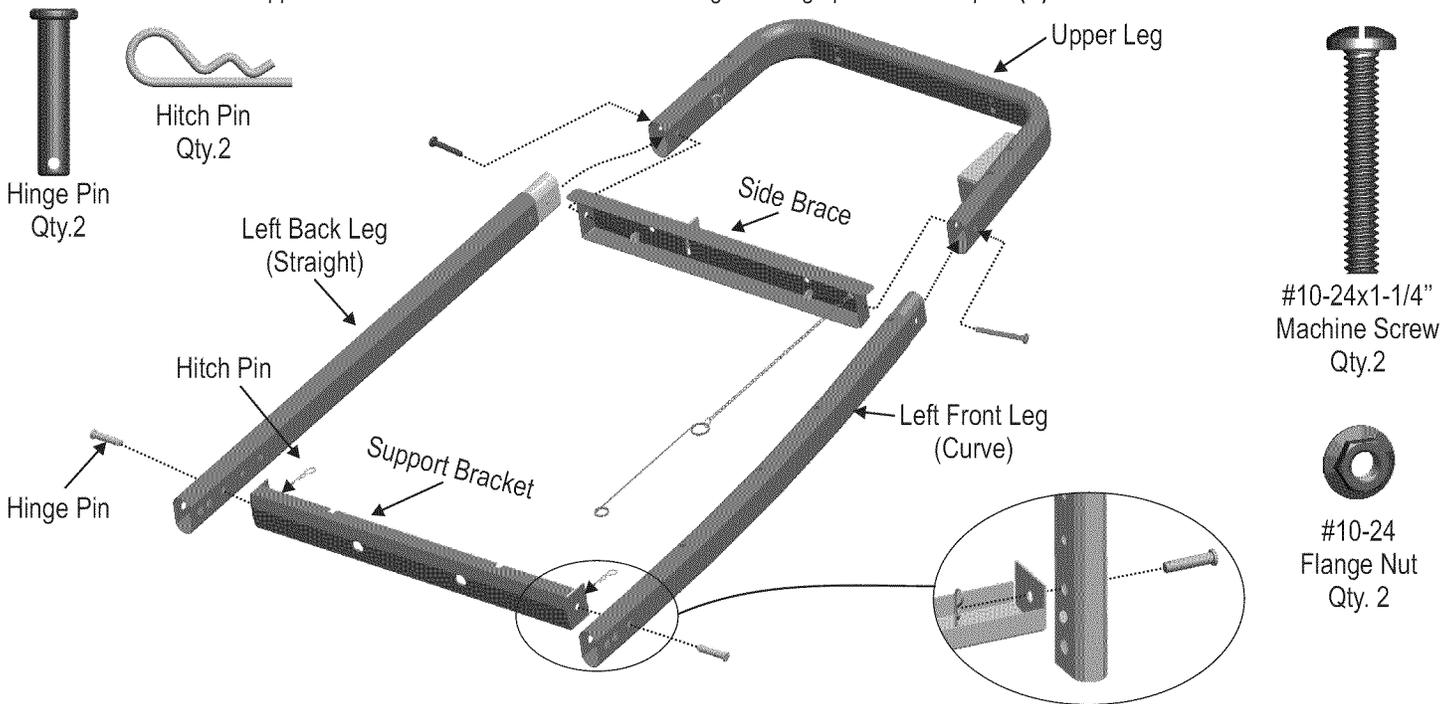


ASSEMBLY

1

Left Leg

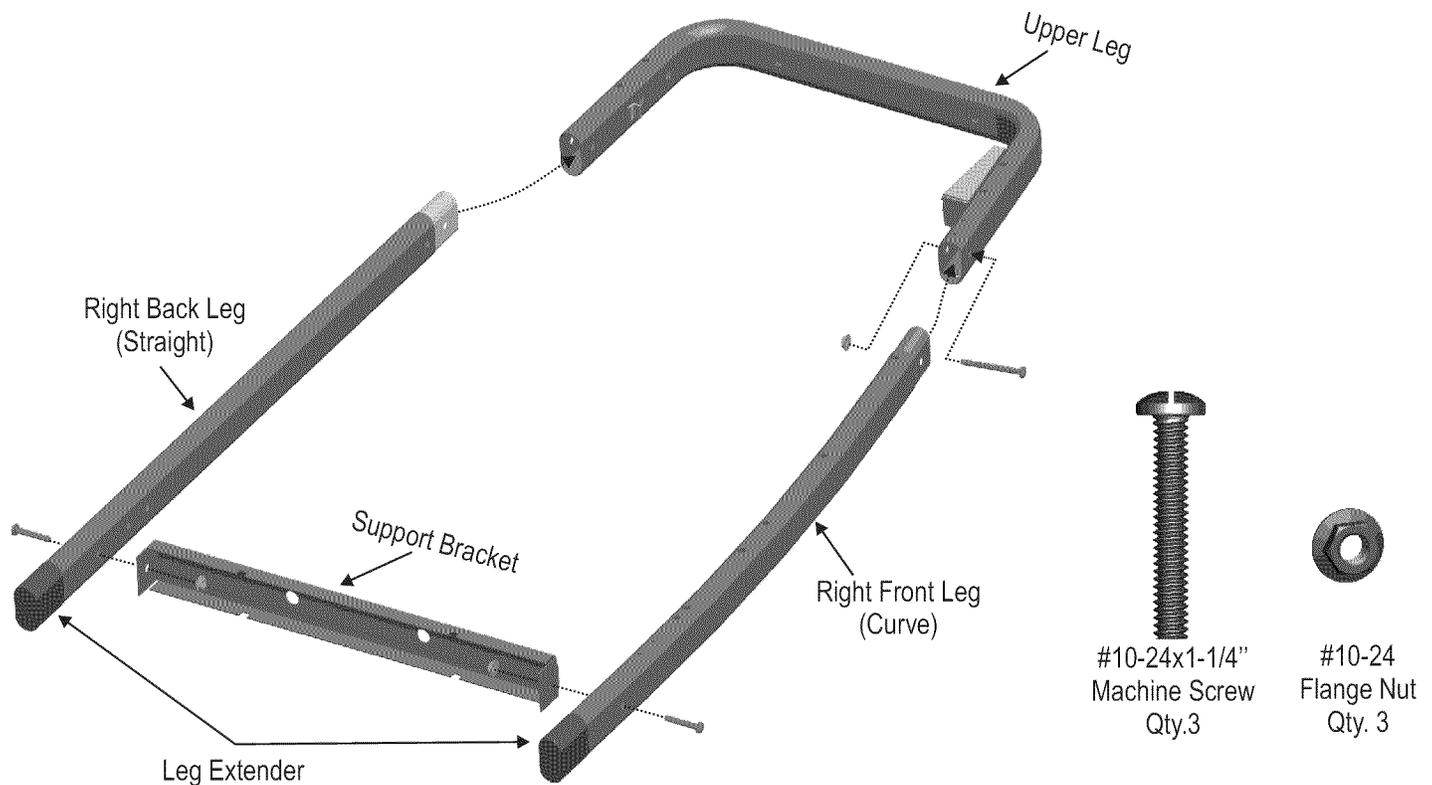
- Place one upper leg as shown . NOTE: Left front and left back legs do not have leg extenders. In front, attach upper leg, side brace and left front leg (curve) with **#10-24x1-1/4" screw** and **#10-24 flange nut**. **Tighten screws**. In back, attach upper leg, side brace and left back leg (straight) with **#10-24x1-1/4" screw** and **#10-24 flange nut**. **Do not tighten**.
- Attach support bracket in second hole from bottom of leg with hinge pins and hitch pins (A).



2

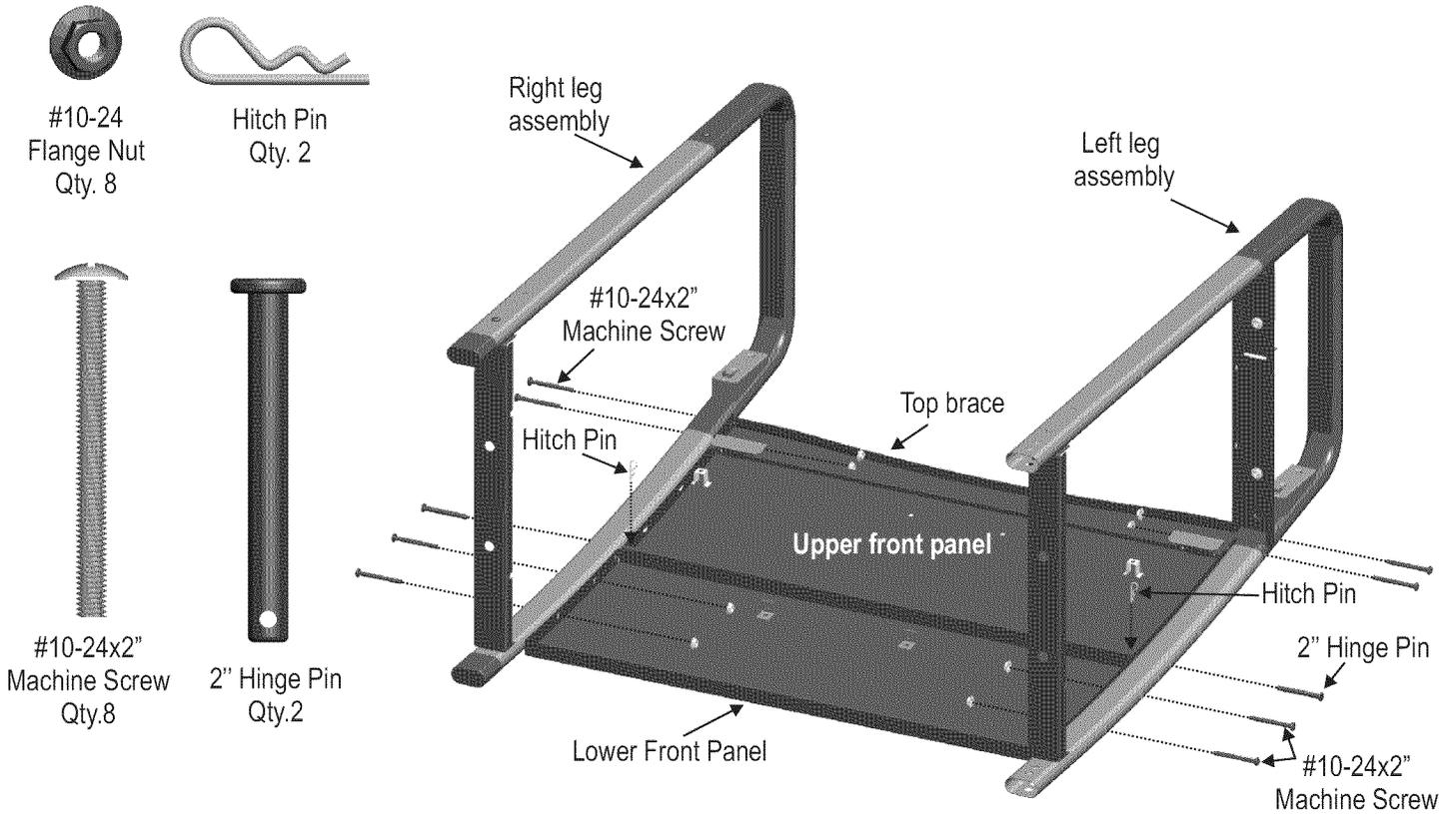
Right Leg

- Place other upper leg as shown. Attach upper leg and right front leg (curve) with **#10-24x1-1/4" screw** and **#10-24 flange nut**. **Tighten screws**.
- Attach support bracket with **#10-24x1-1/4" screws** and **#10-24 flange nuts**.



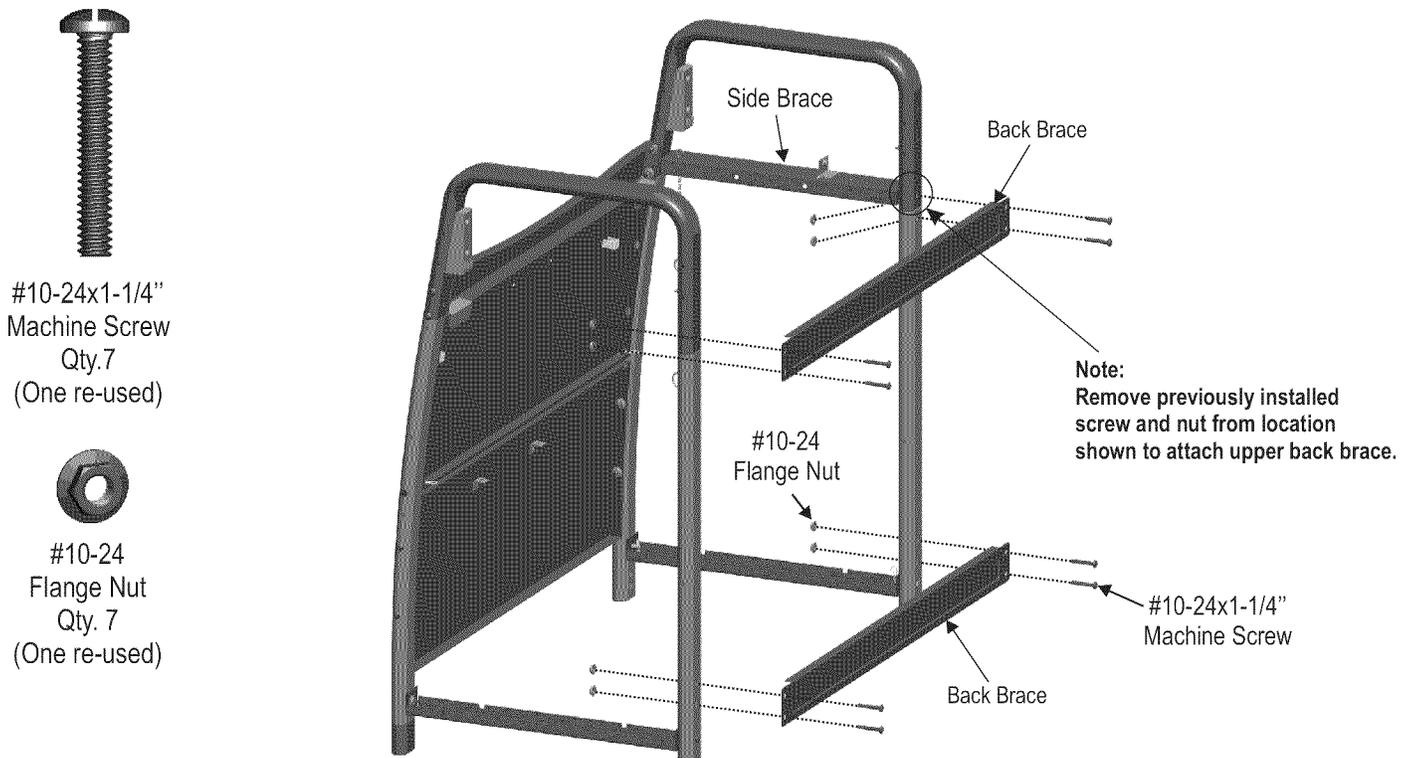
3 Upper and lower Front Panel and Top brace

- Lay front legs down on the floor. Fit upper front panel between legs. Attach with 2" hinge pins and hitch pins .
- Attach lower front panel with #10-24x2" machine screws and #10-24 flange nuts .
- Attach top brace with #10-24x2" machine screws and #10-24 flange nuts .



4 Back Brace to Cart

- Remove previously attached screws and nuts securing the upper leg and side brace as noted below. Attach upper and lower back braces with #10-24x1-1/4" screws and #10-24 flange nuts.

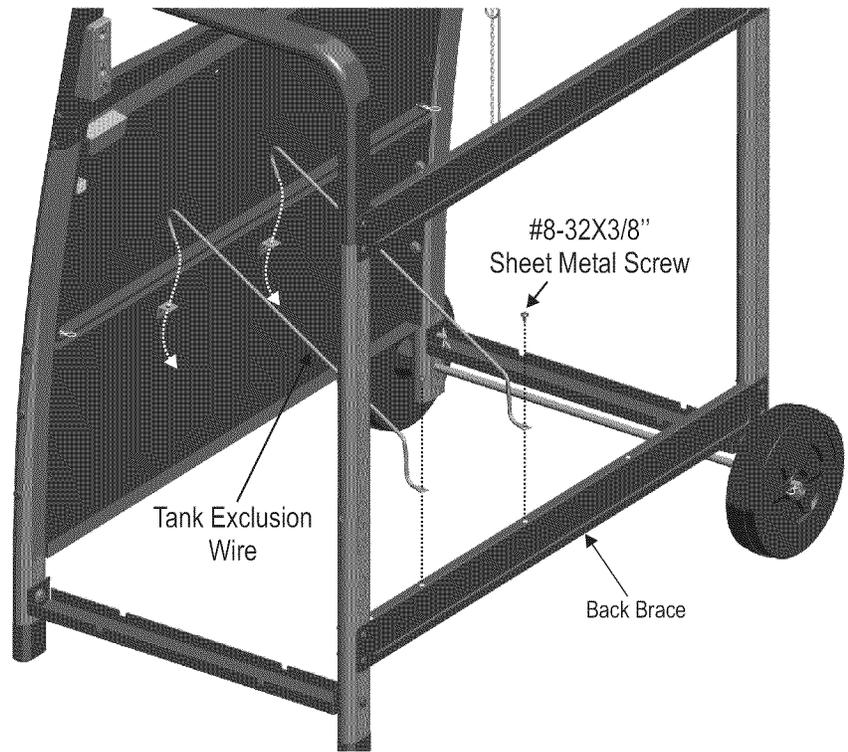


5 Tank Exclusion

- Hank tank exclusion wires onto lower front panel brackets, attach other ends to back brace with #8-32X3/8" sheet metal screws.

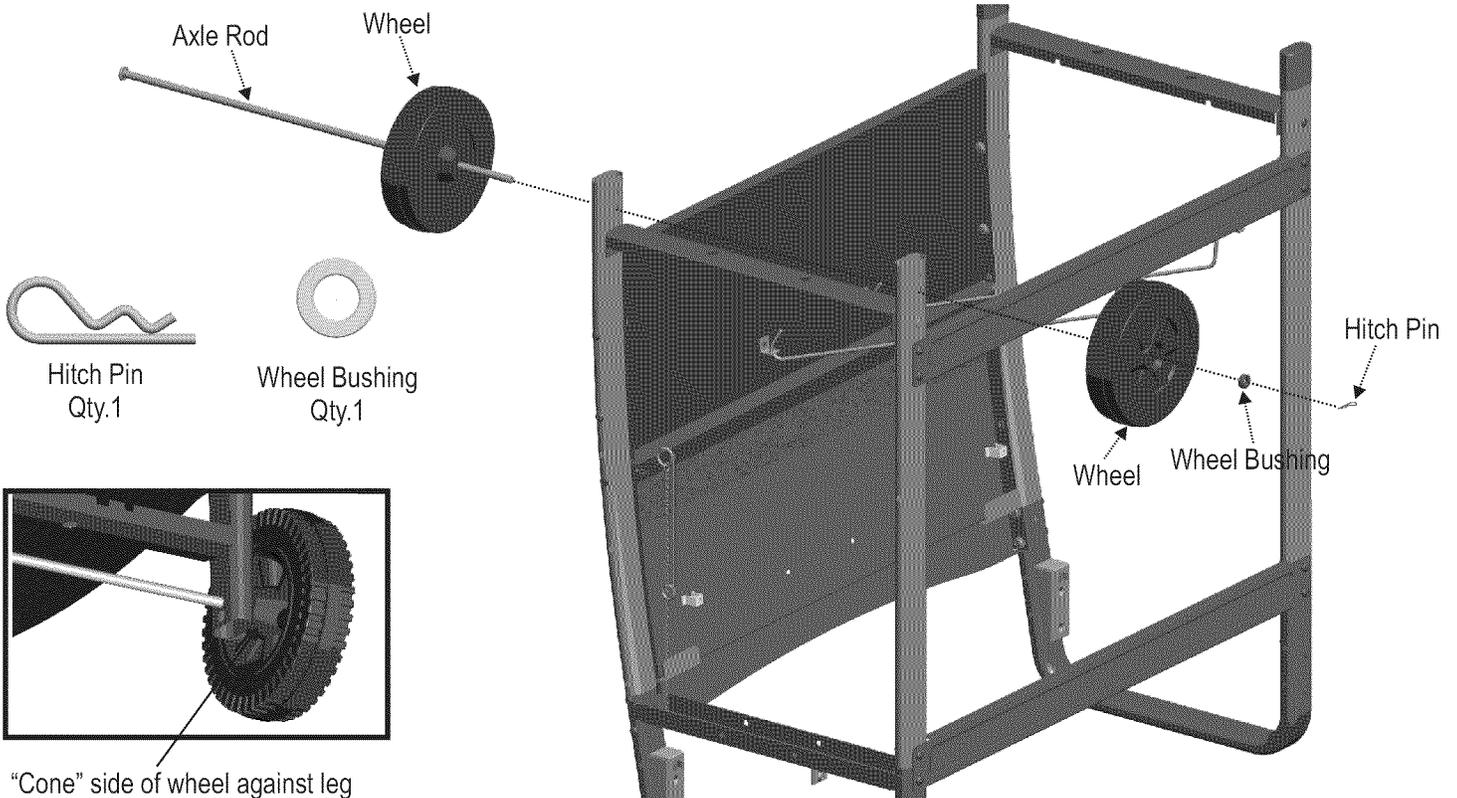


#8-32X3/8"
Sheet Metal Screw
Qty.2



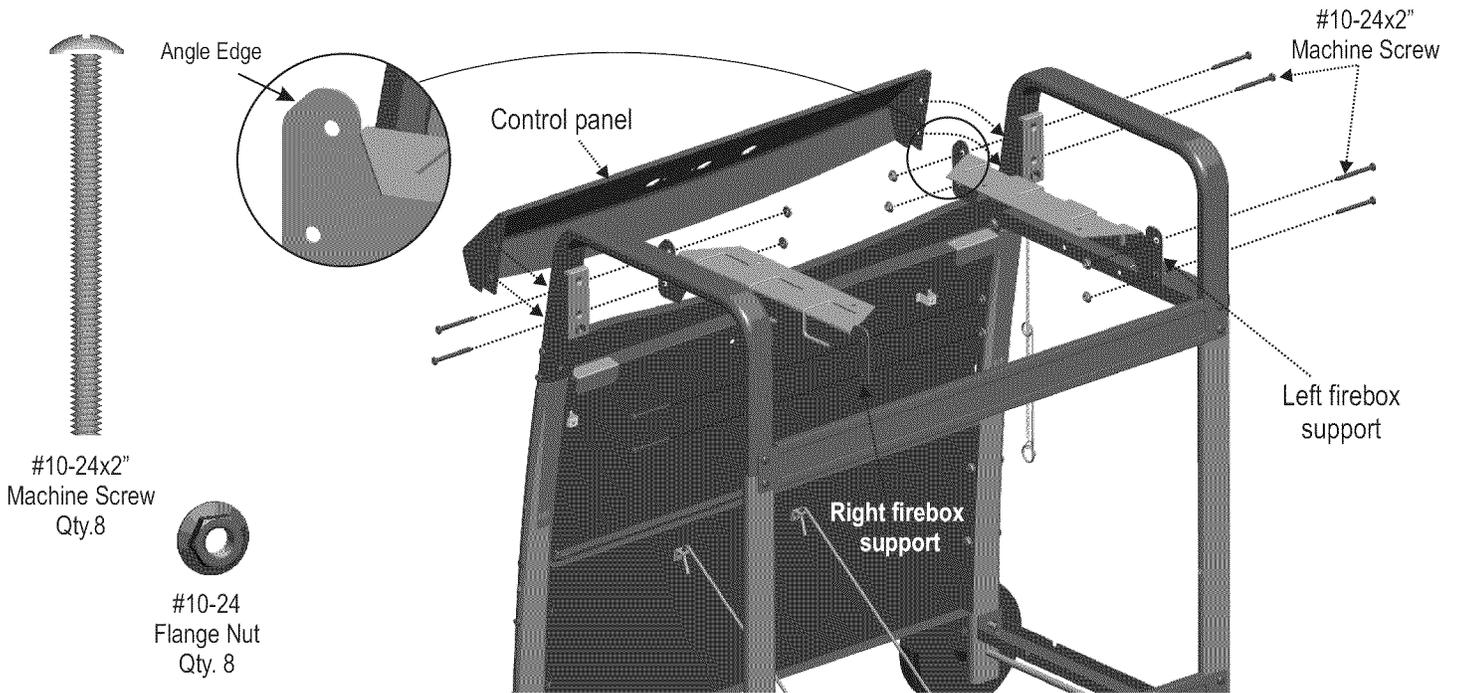
6 Wheels

- Turn assembly upside down.
- Insert axle rod through wheel, legs and other wheel. Attach with a wheel bushing and hitch pin.



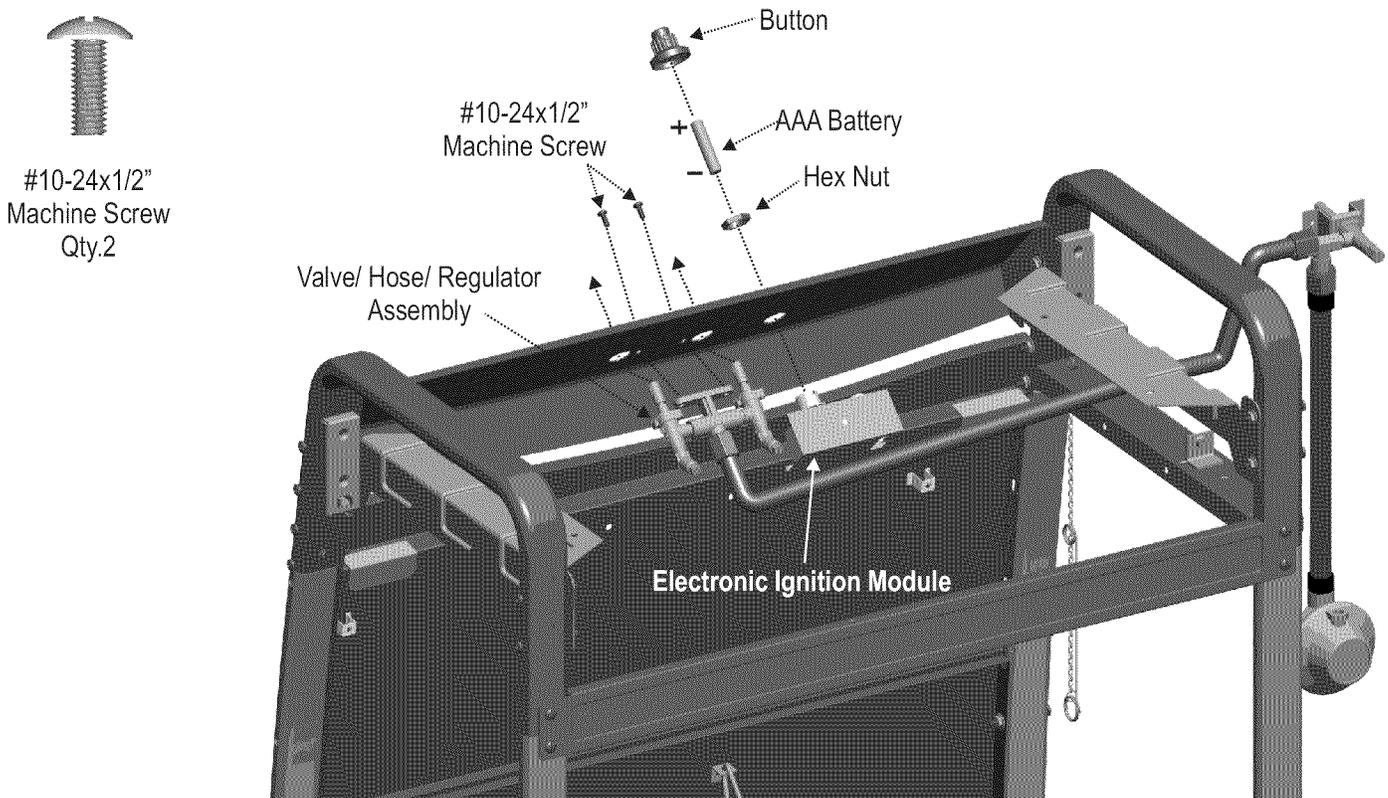
7 Control Panel and Firebox Support

- Stand cart upright.
- In front, fit control panel between left and right legs. Insert #10-24x2" machine screws to hold panel in place. Place upper firebox supports onto screws making sure angle side is facing the front and attach with # 10-24 flange nuts.
- In back, attach upper firebox support with #10-24x2" machine screws and # 10-24 flange nuts.



8 Valve/Hose/Regulator and Ignitor

- Attach valve/hose/regulator assembly to control panel using #10-24x1/2" machine screws.
- Remove ignitor cap and plastic hex nut from Electronic Ignition Module assembly. Insert module into the opening on control panel and attach with the removed hex nut. Place AAA battery into module slot with positive end (+) facing outward. Screw ignitor cap onto module.



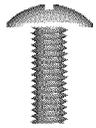
9

Heat Shield

- Attach heat shield with #10-24x1/2" machine screws and #10-24 flange nuts.

Tank Retainer

- Insert tank retainer into side brace and secure with #10-24x3/8" wing screw.



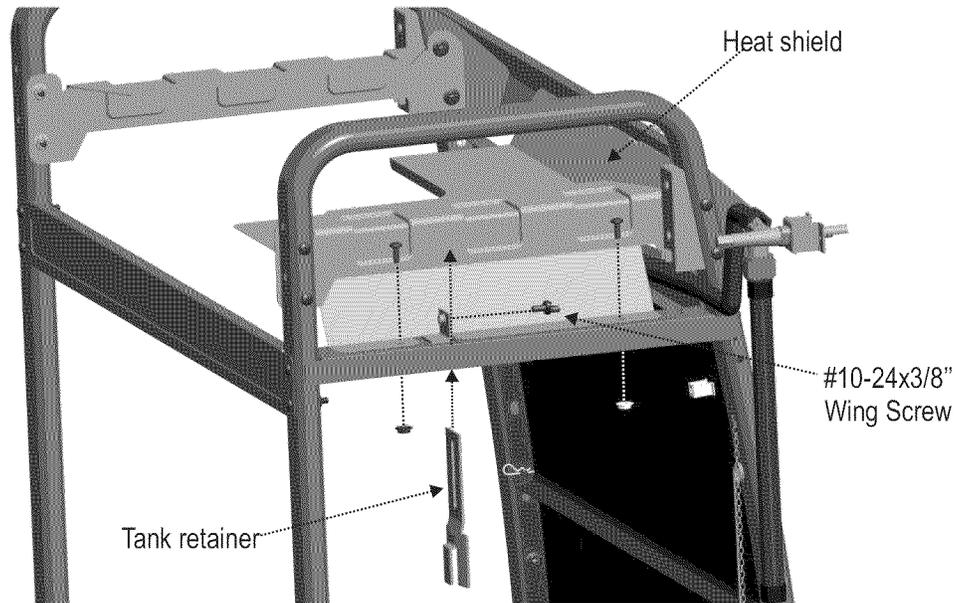
#10-24x1/2"
Machine Screw
Qty.2



#10-24
Flange Nut
Qty. 2



#10-24x3/8"
Wing Screw
Qty.1



10

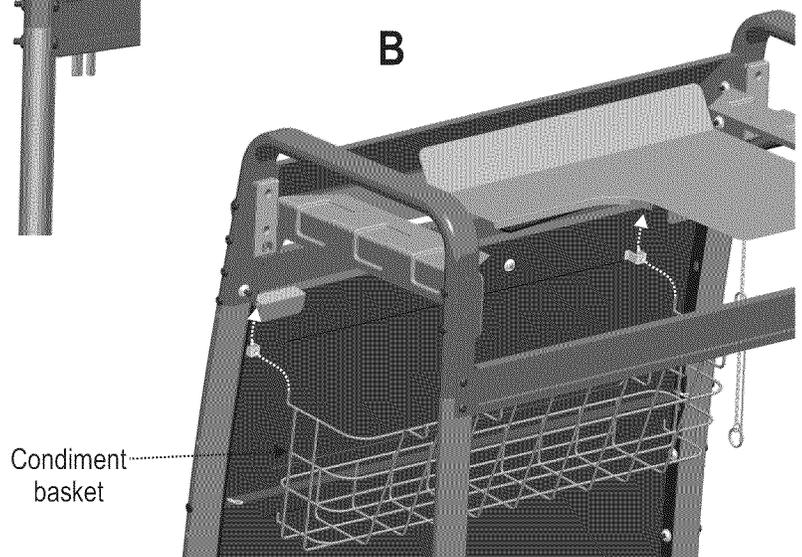
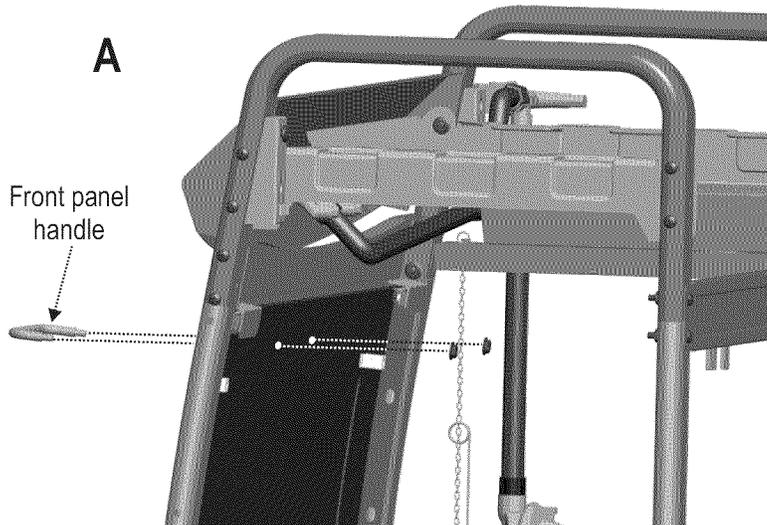
Front Panel Handle and Condiment basket

- Attach front panel handle to upper front panel using #10-24 flange nuts (A).

- Attach condiment basket to upper front panel as shown (B).



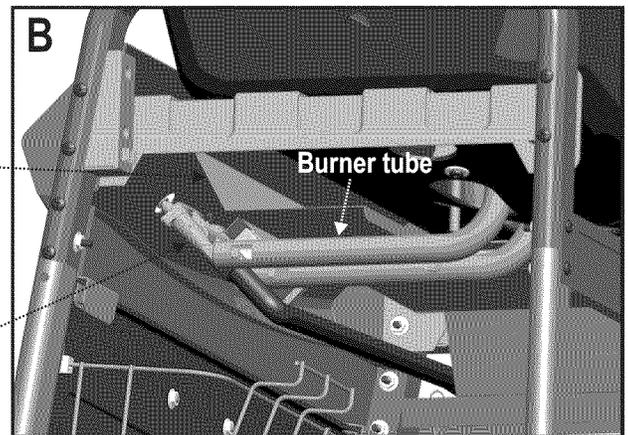
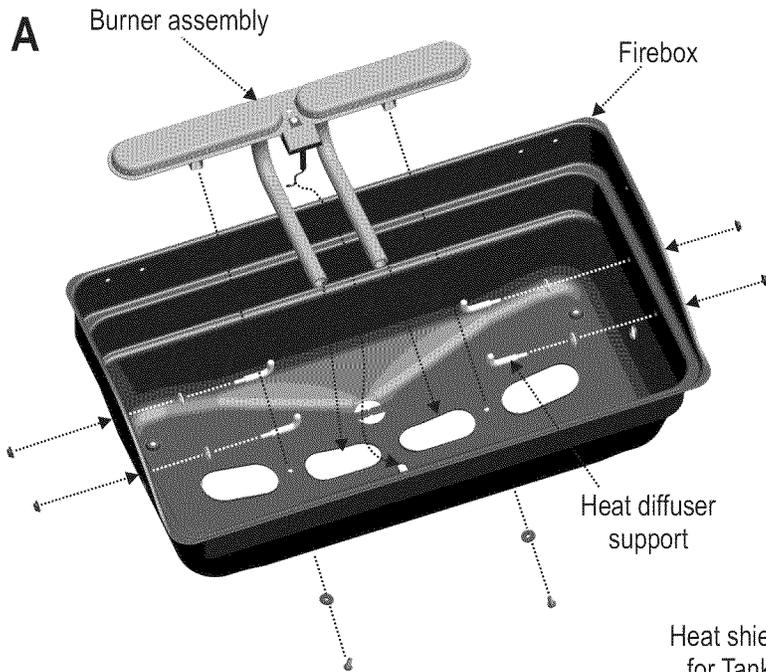
#10-24
Flange Nut
Qty. 2



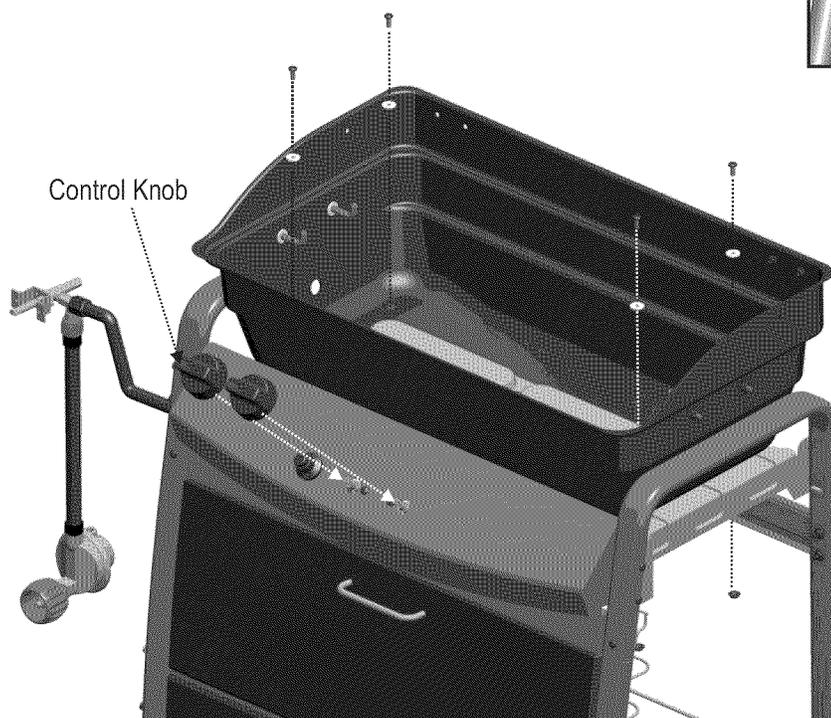
11

Burner and Firebox and Control Knobs

- Place burner assembly into firebox. Fasten the burner assembly to the firebox using 5x15 fiber washers and #10-24x1/2" machine screws (A).
- Inside firebox, insert heat diffuser supports with 5x15 fiber washers to firebox through sides of firebox, then secure with #10-24 flange nuts on outside of firebox (A).
- Place firebox on cart. Make sure burner tubes are correctly engaged with valves. If burner is not level from left to right, adjust the two screws attaching valve to control panel. Attach ignitor wire to ignitor (B).
- Attach firebox with #10-24x2" machine screws, 5x15 fiber washers and #10-24 flange nuts (C).
- Push control knobs onto valve stems (C).



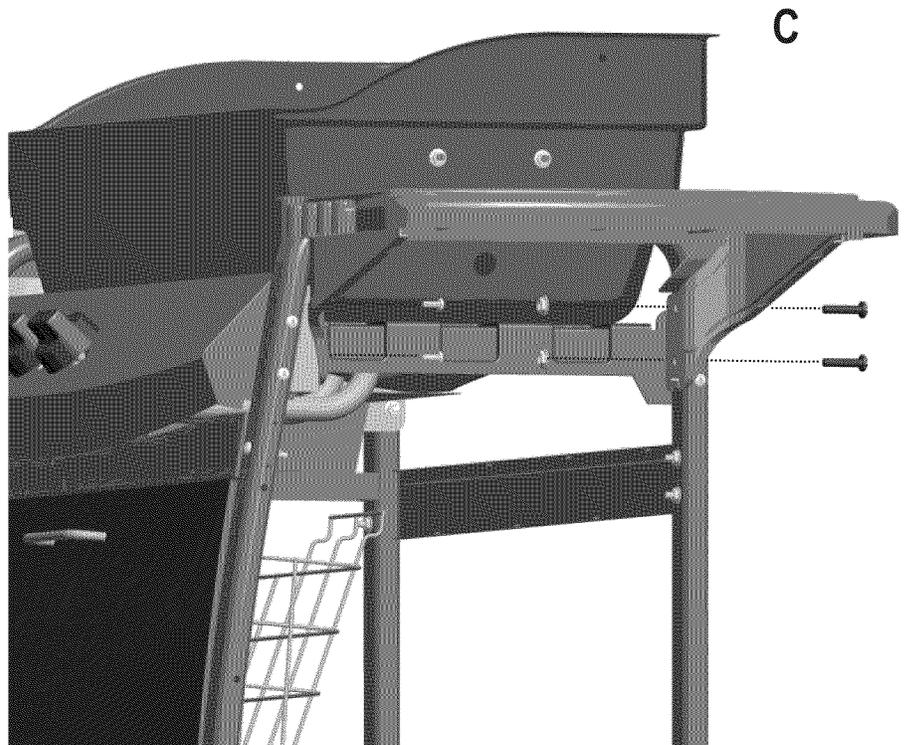
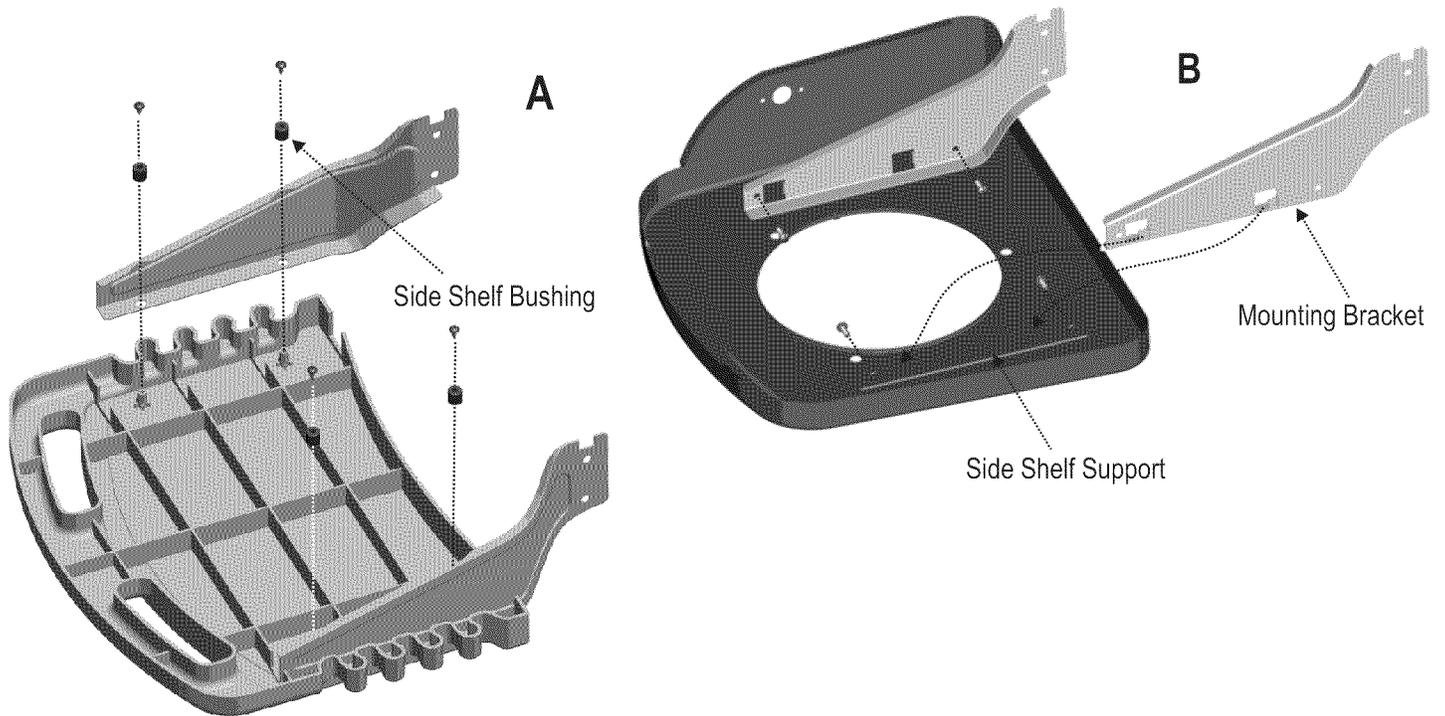
Make sure the burner tubes are located underneath Heat Shield



12

Right Side Shelf and Side Burner Support Shelf

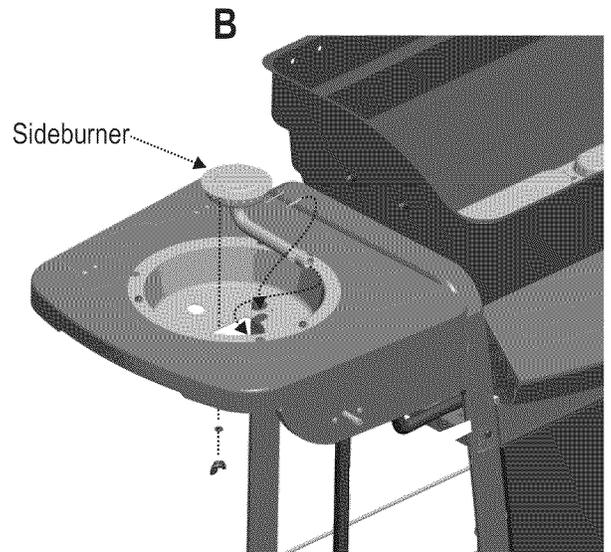
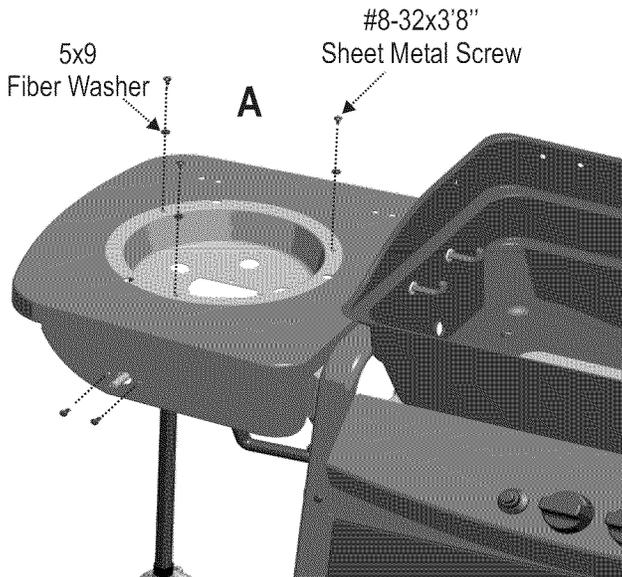
- Attach mounting brackets to Right Side Shelf with #8-32x3/8" sheet metal screws and side shelf bushings (A). **Note: Do not overtighten the screws.**
- Insert mounting brackets into Side Burner Shelf Support, and secure with #10-24x1/2" machine screws (B).
- Attach Right Side Shelf and Side Burner Support Shelf to front of leg with 1/4"-20x1/2" machine screws. Back of leg with 1/4"-20x1-1/4" machine screws and 1/4"-20 flange nuts .



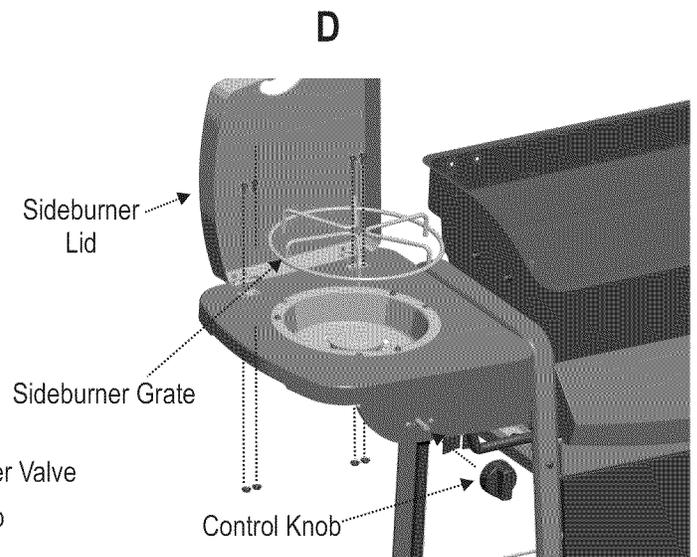
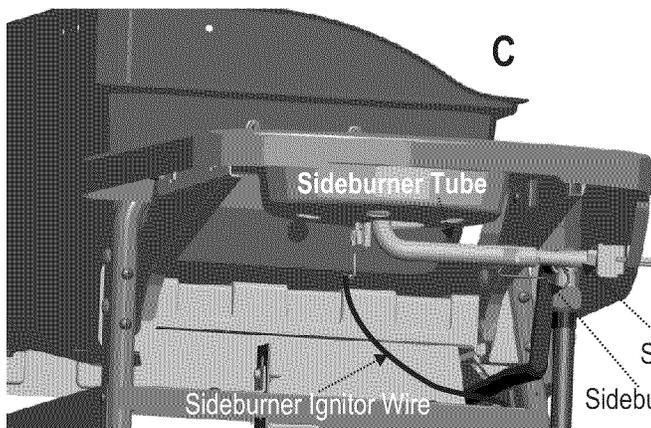
13

Sideburner

- Attach sideburner valve with #8-32x3/8" machine screws. Attach sideburner pan with #8-32x3/8" sheet metal screws and 5x9 fiber washers (A).
- Place sideburner into shelf (B). Make sure valve is inside sideburner tube (C). Attach sideburner with #8-32 wing nut and 5x9 fiber washer (B).
- Hook burner clip to sideburner tube and around manifold. Attach sideburner ignitor wire. (C)
- Attach sideburner lid to back of shelf with #10-24x1/2" machine screws and #10-24 flange nuts. Press control knob onto valve stem and sideburner grate onto shelf. (D)

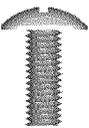


Correctly assembled burner-to-valve engagement



14 Lower Hinges

- Attach lower hinges to back of firebox using #10-24x1/2" machine screws, 5x15 fiber washers and #10-24 flange nuts. The center flat portion of the hinge should be at the bottom (see inset).



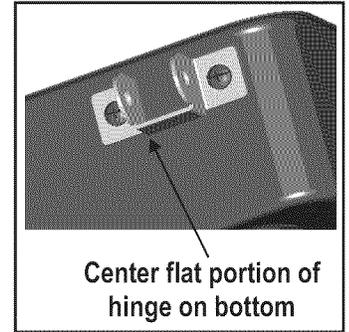
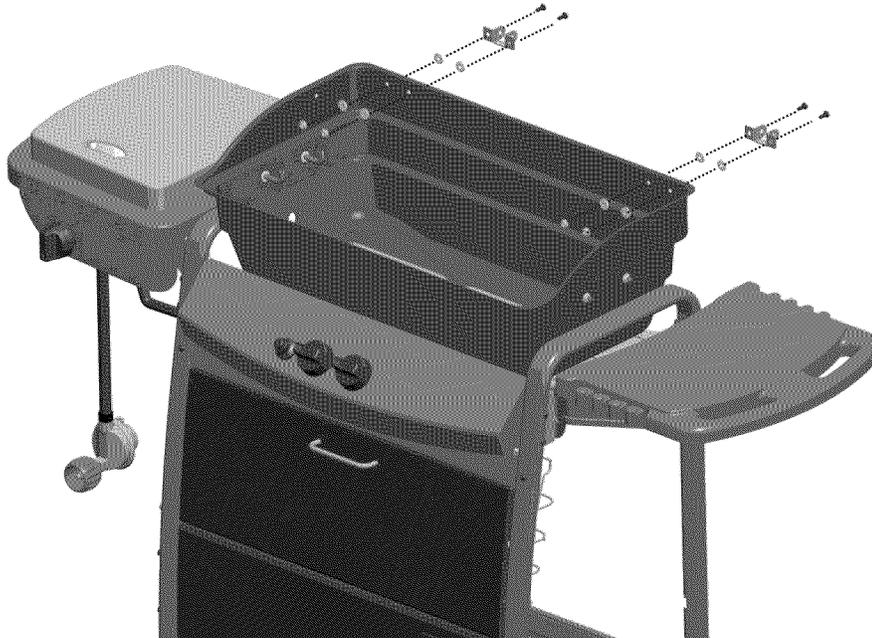
#10-24x1/2"
Machine Screw
Qty.4



5x15
Fiber Washer
Qty.8



#10-24
Flange Nut
Qty. 4



15 Lid Handle and Upper Hinges

- Attach handle to lid with 7x15 fiber washers and 1/4"-20 wing nuts (A).
- Attach upper hinges to back of lid using #10-24x1/2" machine screws, 5x15 fiber washers and #10-24 flange nuts. Hinge should curve downward when properly installed (B).



#10-24X1/2"
Machine Screw
Qty.4



#10-24
Flange Nut
Qty. 4



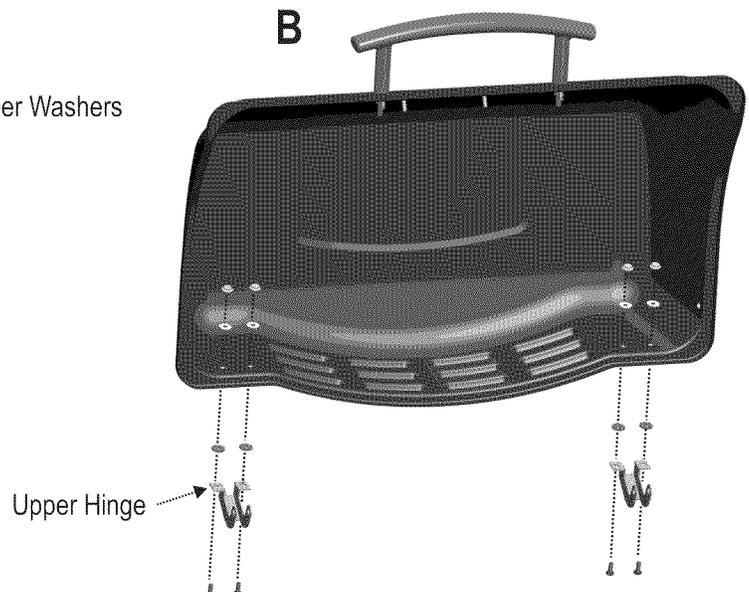
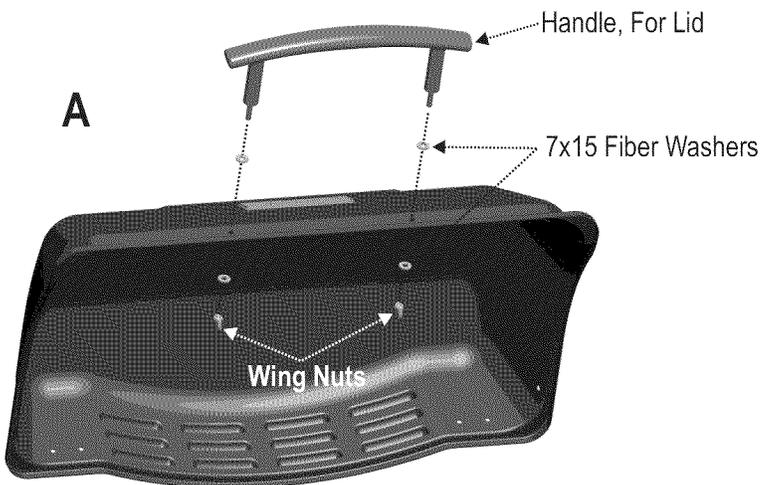
5x15
Fiber Washer
Qty.8



7x15
Fiber Washer
Qty.4



1/4"-20
Wing nut
Qty.2



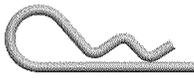
16

Attach Lid

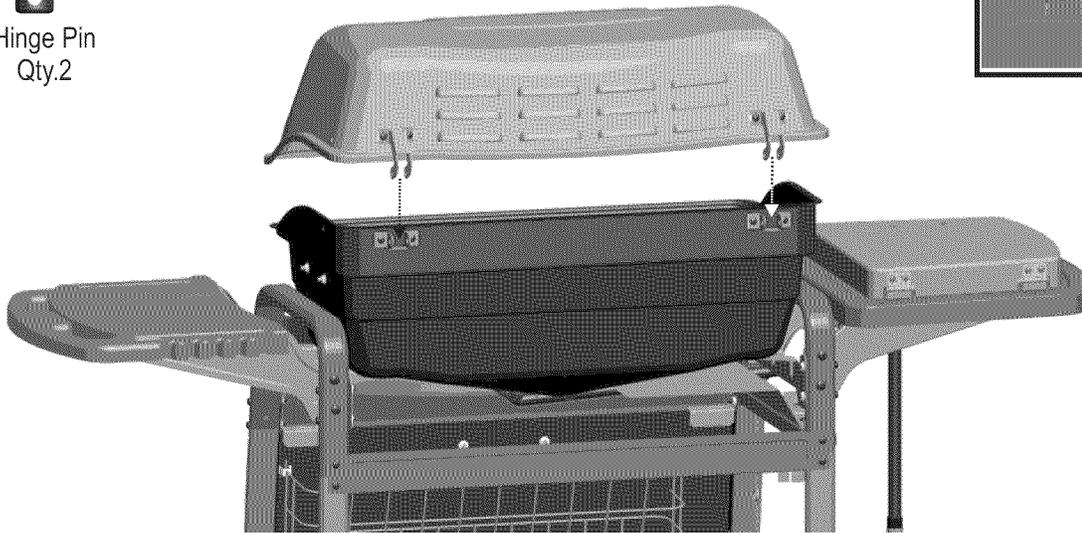
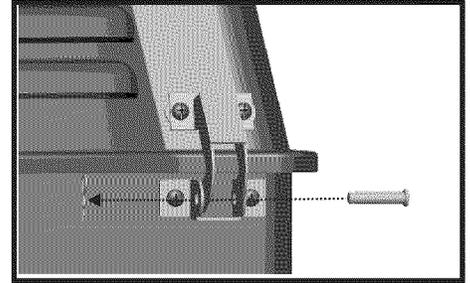
Place lid assembly onto firebox, aligning hinges. Hinges on lid fit inside hinges on firebox. Secure using **two hinge pins** and **hitch pins**.



Hinge Pin
Qty.2



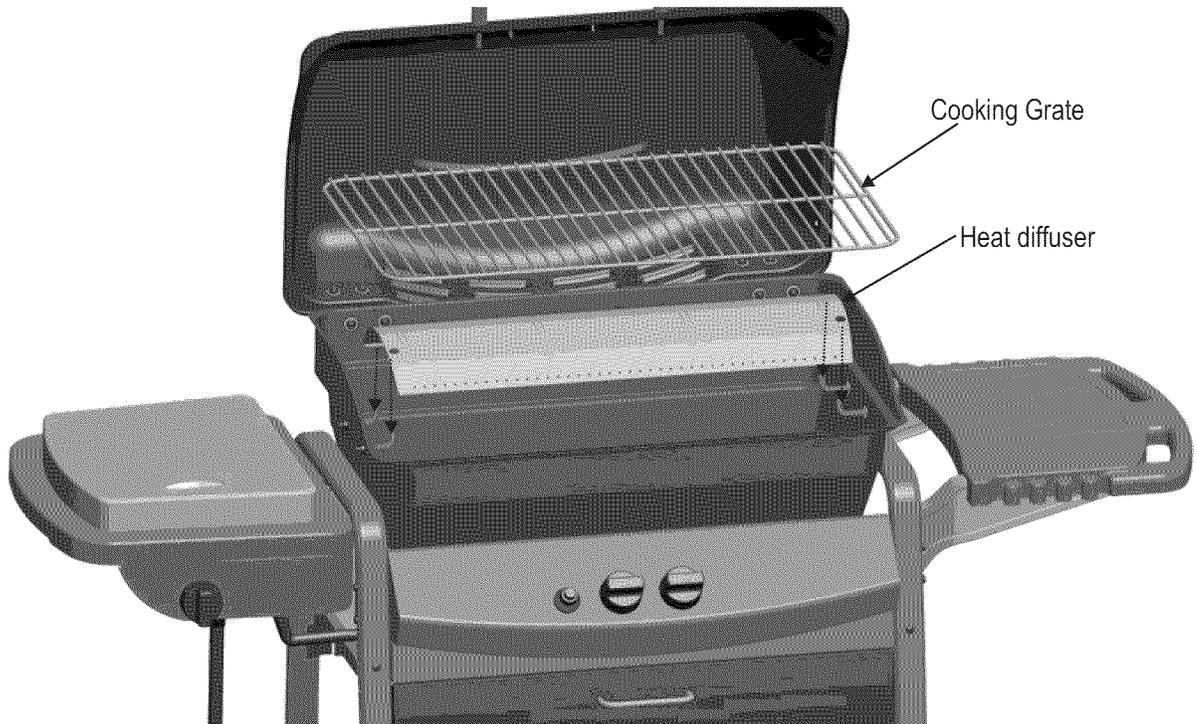
Hitch Pin
Qty.2



17

Heat Diffuser and Cooking Grate

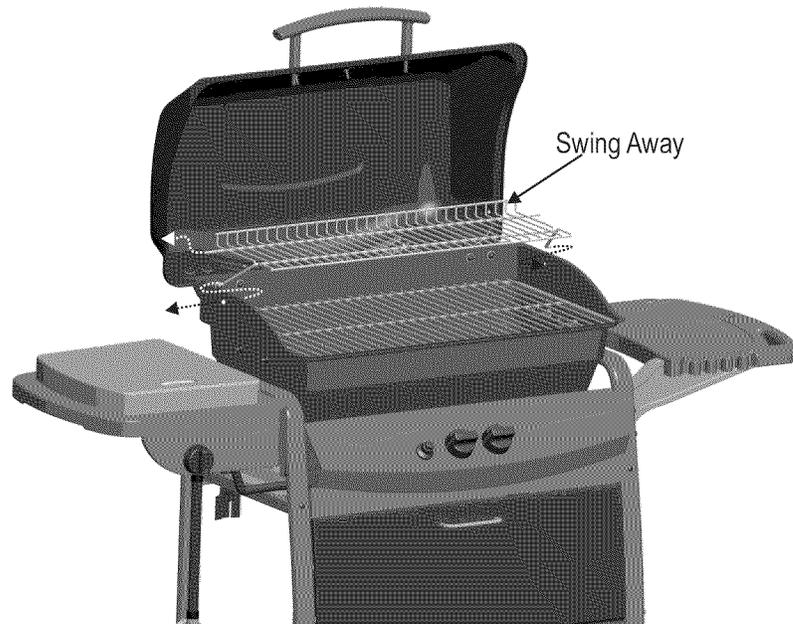
- Place heat diffuser onto heat diffuser support.
- Place cooking grate into firebox.



18

Swing Away

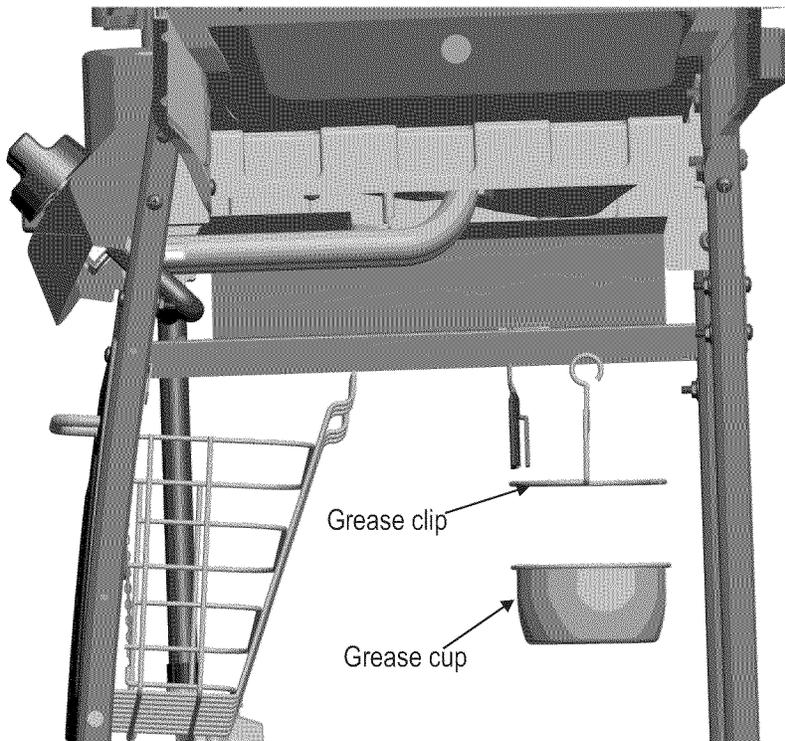
Insert ends of Swing Away pivot wire into holes in sides of grill lid. Insert ends of Swing Away leg wire into holes in sides of firebox. NOTE: Pivot and leg wires, running side-to-side, should be under wires running front-to-back. If pivot and leg wires are on top, Swing Away is installed upside-down.



19

Grease Cup

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



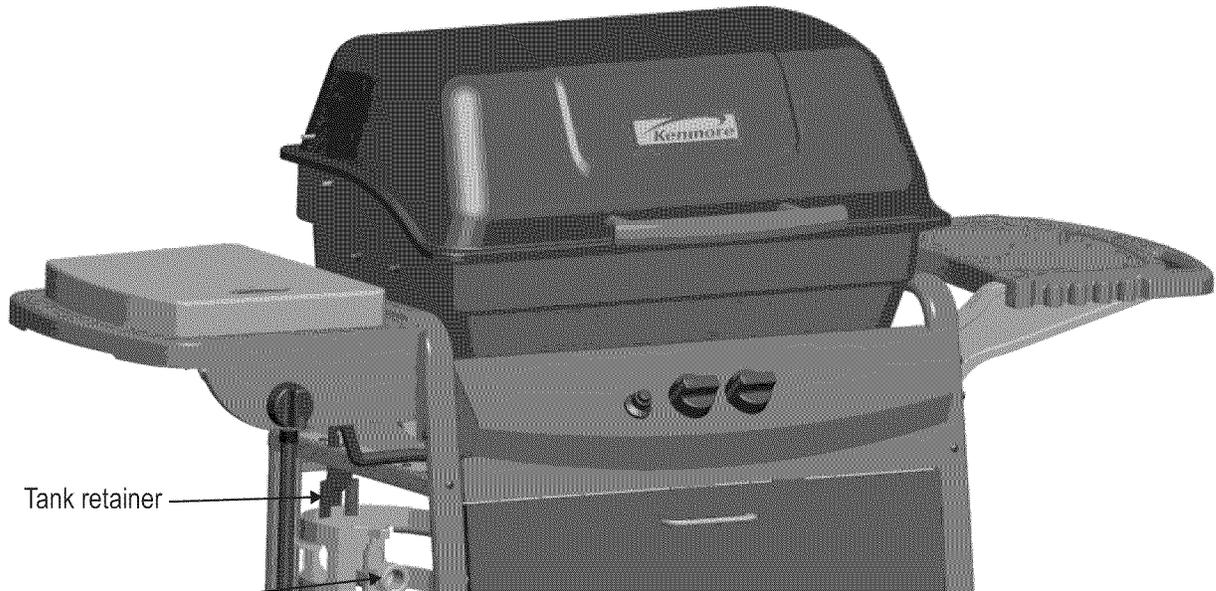
	CAUTION	
<p>Failure to install grease cup clip and cup will cause hot grease to drip from bottom of grill with risk of fire or property damage.</p>		

20

LP Tank

Tank collar opening must face to front of grill. Loosen wing nut from tank retainer bracket. Set bottom of tank into notches of tank bracket. Place tank retainer bracket onto tank collar and tighten wing nut.

LP CYLINDER IS SOLD SEPARATELY. Fill and leak check the cylinder before attaching to grill and regulator (see Use & Care section). Once cylinder has been filled and leak checked, place cylinder into notches in tank support bracket. **Make sure cylinder valve is facing front of grill. See Use & Care section of this manual to perform the “Burner Flame Check” and for important safety instructions before using.**



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 cylinder or at source on natural gas systems. If anything but burned, replace valve/hose/regulator. If burned, discontinue use of product until a plumber has investigated cause and corrections are made.
Gas leaking from LP cylinder.	• Mechanical failure due to rusting or mishandling.	• Replace LP cylinder.
Gas leaking from LP cylinder valve.	• Failure of cylinder valve from mishandling or mechanical failure.	• Turn off LP cylinder valve. Return LP cylinder to gas supplier.
Gas leaking between LP cylinder and regulator connection.	• Improper installation, connection not tight, failure of rubber seal.	• Turn off LP cylinder valve. Remove regulator from cylinder and visually inspect rubber seal for damage. See LP Cylinder Leak Test and Connecting Regulator to the LP Cylinder.
Fire coming through control panel.	• Fire in burner tube section of burner due to blockage.	• Turn off control knobs and LP cylinder 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.
Grease fire or continuous excessive flames above cooking surface.	• Too much grease buildup in burner area.	• Turn off control knobs and LP cylinder valve. Leave lid open to allow flames to die down. After cooling, clean food particles and excess grease from inside firebox area, grease tray, and other surfaces.

Troubleshooting

Problem	Possible Cause	Prevention/Solution
<p>Burner(s) will not light using ignitor. (See Electronic Ignition Troubleshooting also)</p> <p><i>Continued on next page.</i></p>	<p>GAS ISSUES:</p> <ul style="list-style-type: none"> • Trying to light wrong burner. • Burner not engaged with control valve. • Obstruction in burner. • No gas flow. • Vapor lock at coupling nut to LP cylinder. • Coupling nut and LP cylinder valve not fully connected. <p>ELECTRICAL ISSUES:</p> <ul style="list-style-type: none"> • 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. • Dead battery. 	<ul style="list-style-type: none"> • See instructions on control panel and in Use and Care section. • 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 cylinder is not empty. If LP cylinder is not empty, refer to "Sudden drop in gas flow." • Turn off knobs and disconnect coupling nut from LP cylinder. 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. • Replace electrode(s). <p>Main Burners:</p> <ul style="list-style-type: none"> • Tip of electrode should be pointing toward gas port opening on burner. The distance should be 1/8" to 1/4". Adjust if necessary. <p>Sideburner:</p> <ul style="list-style-type: none"> • Tip of electrode should be pointing toward gas port opening on burner. The distance should be 1/8" to 3/16". Adjust if necessary. <ul style="list-style-type: none"> • Clean wire and/or electrode with rubbing alcohol and clean swab. • Reconnect wires or replace electrode/wire assembly. • Replace ignitor wire/electrode assembly. • Replace with a new AA-size alkaline battery.

REV00

Troubleshooting (continued)

Problem	Possible Cause	Prevention/Solution
Burner(s) will not light using ignitor. (See Electronic Ignition Troubleshooting also)	ELECTRONIC IGNITION: •No spark, no ignition noise. •No spark, some ignition noise. •Sparks, but not at electrode or at full strength.	<ul style="list-style-type: none"> • See Section I of Electronic Ignition System. • See Section II of Electronic Ignition System. • See Section III of Electronic Ignition System.
Burner(s) will not match light.	<ul style="list-style-type: none"> •See “GAS ISSUES:” on previous page. •Match will not reach. •Improper method of match-lighting. 	<ul style="list-style-type: none"> •Use long-stem match (fireplace match). •See “Match-Lighting” section of Use and Care.
Sudden drop in gas flow or low flame.	<ul style="list-style-type: none"> •Out of gas. •Excess flow valve tripped. •Vapor lock at coupling nut/LP cylinder connection. 	<ul style="list-style-type: none"> •Check for gas in LP cylinder. •Turn off knobs, wait 30 seconds and light grill. If flames are still low, turn off knobs and LP cylinder valve. Disconnect regulator. Reconnect regulator and leak-test. Turn on LP cylinder valve, wait 30 seconds and then light grill. •Turn off knobs and LP cylinder valve. Disconnect coupling nut from cylinder. Reconnect and retry.
Flames blow out.	<ul style="list-style-type: none"> •High or gusting winds. •Low on LP gas. •Excess flow valve tripped. 	<ul style="list-style-type: none"> •Turn front of grill to face wind or increase flame height. •Refill LP cylinder. •Refer to “Sudden drop in gas flow” above.
Flare-up.	<ul style="list-style-type: none"> •Grease buildup. •Excessive fat in meat. •Excessive cooking temperature. 	<ul style="list-style-type: none"> •Clean burners and inside of grill/firebox. •Trim fat from meat before grilling. •Adjust (lower) temperature accordingly.
Persistent grease fire.	•Grease trapped by food buildup around burner system.	•Turn knobs to OFF. Turn gas off at LP cylinder. Leave lid in position and let fire burn out. After grill cools, remove and clean all parts.
Flashback... (fire in burner tube(s)).	•Burner and/or burner tubes are blocked.	•Turn knobs to OFF. Clean burner and/or burner tubes. See burner cleaning section of Use and Care.
Unable to fill LP cylinder.	•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
<p>SECTION I No sparks appear at any electrodes when control knob turned to ; no noise can be heard from spark module.</p>	<ul style="list-style-type: none"> •Battery not installed properly. •Dead battery. •Button assembly not installed properly. •Faulty spark module. 	<ul style="list-style-type: none"> •Check battery orientation. •Has battery been used previously? •Check to insure threads are properly engaged. Button should travel up and down without binding. •If no sparks are generated with new battery and good wire connections, module is faulty. 	<ul style="list-style-type: none"> •Install battery (make sure that “+” and “-” connectors are oriented correctly, with “+” end up and “-” end down.) •Replace battery with new AA-size alkaline battery. •Unscrew button cap assembly and reinstall, making sure threads are aligned and engaged fully. •Replace spark module assembly.
<p>SECTION II No sparks appear at any electrodes when control knob turned to ; noise can be heard from spark module.</p>	<ul style="list-style-type: none"> •Output lead connections not connected. 	<ul style="list-style-type: none"> •Are output connections on and tight? 	<ul style="list-style-type: none"> •Remove and reconnect all output connections at module and electrodes.
<p>SECTION III Sparks are present but not at all electrodes and/or not at full strength</p>	<ul style="list-style-type: none"> •Output lead connections not connected. •Electrical arc between output wires and grill frame. •Weak battery. •Electrodes are wet. •Electrodes cracked or broken; Sparks at electrode crack. 	<ul style="list-style-type: none"> •Are output connections on and tight? •If possible, observe grill in dark location. Operate ignition system and look for arcing between output wires and grill frame. •All sparks present but weak or at slow rate. •Has moisture accumulated on electrode and/or in burner ports? •Inspect electrodes for cracks. 	<ul style="list-style-type: none"> •Remove and reconnect all output connections at module and electrodes. •If sparks are observed other than from burner(s), wire insulation may be damaged. Replace wires. •Replace battery with a new AA-size alkaline battery. •Use paper towel to remove moisture. •Replace cracked or broken electrodes.

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