# **Assembly Instructions/Use and Care Manual**

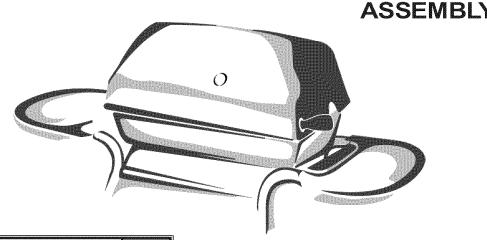


# **Liquid Propane Gas Grill**

Model No. 415.162090

This Grill Is For Outdoor Use Only







# WARNING



- Read this manual before cooking on grill. Failure to follow all manufacturer's instructions could result in fire or explosion which could cause property damage, personal injury or death.
- Combustion by-products produced when using this product contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.
- Parts
- Use and Care
- Assembly
- Troubleshooting
- Safety Rules
- Español, p. 33



# **CAUTION**



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

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.

463350505 / 1-7001062 (06-10-05)





# FOR YOUR SAFETY

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

# FOR YOUR SAFETY

If you smell gas:

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

# 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**<sup>®</sup>.

### **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 only with LP (propane) gas and the regulator/valve assembly supplied.
- Grill installation must conform with local codes, or in their absence with National Fuel Gas Code, NFPA 54 / ANSI Z223.1. Handling and storage of LP cylinders must conform to LP Gas Code NFPA/ANSI 58. Grill is not for use in or on recreational vehicles and/or boats
- 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.
- This grill is safety certified for outdoor use in the United States only. Do not modify for use in any other location. Modification will result in a safety hazard.

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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'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 is defective in material or workmanship within one year from the date of purchase, call 1-800-4-MY HOME® to have it repaired free of charge.

# Additional Limited Warranty on Specific Grill Parts

For the time periods listed below, the following specific grill parts will be replaced free of charge if they are defective in material or workmanship. You will be charged for labor.

- · Lifetime on Aluminum Top and Bottom Castings.
- Two years from purchase date on Stainless Burner Assembly.

All warranty coverage excludes batteries and any grill part paint loss or rusting, which are either expendable parts that can wear out from normal use in less than a year, or are conditions that can be the result of normal use, accident or improper maintenance.

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

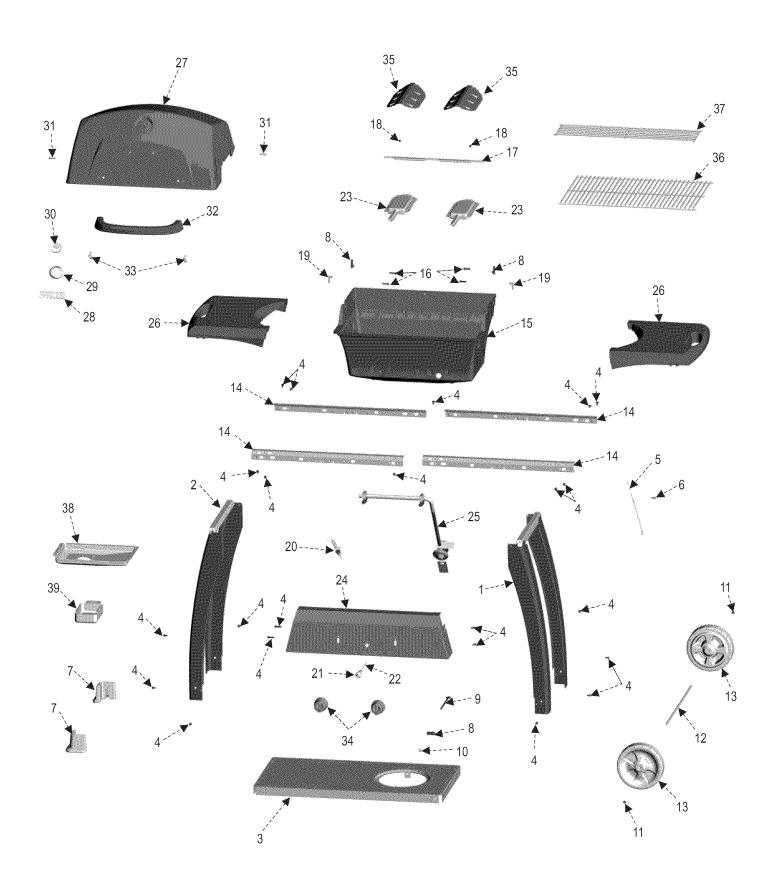
This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., Dept. 817WA, Hoffman Estates, IL 60179

# PARTS LIST - Model No. 415.162090

<u>Key</u>	<u>Qty</u>	Description	Part #	<u>Key</u>	<u>Qty</u>	Description	Part #
1	1	Right Leg Assembly w/ Match Holder	. 7000622	21	1	Ignitor	. 4153713
2	1	Left Leg Assembly	. 7000621	22	1	Ignitor Wire	. 4153196
3	1	Bottom Shelf	. 7000612	23	2	Burners	. 7000083
4	23	#10-16x1/2" Self-Tap Screw	. 7000737 STD611005	24	1	Control Panel	. 7000619
5	1	Match Holder w/Chain	. 7000364	25	1	Valve/Hose/Regulator Assembly	. 7000062
6	1	Push Fastener	. 4080112	26	2	Shelves	. 7000351
7	2	Leg Extender	. 7000320	27	1	Top Casting	. 7000615
8	3	"U" Nut 1/4-20	. 7000185	28	1	Logo Plate Assembly	. 4157167
9	1	1/4-20 x 6" Tank Thumbscrew	. 7000355	29	1	Bezel Temperature Gauge	. 4157169
10	1	1/4-20 Flanged Hex Nut	. 7000394	30	1	Temperature Gauge w/Wing Nut	. 4157171
11	2	#10-24x1/2" Washer Head Screw	. 7000829	31	2	Shoulder Bolt	. 7000186
12	1	Axle Rod	. 7000265	32	1	Handle	. 7000199
13	2	Wheel	. 7000262	33	2	#10-24 Wing Nut	. 4080063 STD541610
14	4	Rail	. 7000480	34	2	Control Knob	. 7000312
15	1	Grill Bottom	. 7000842	35	2	Vaporizer Tents	. 7000044
16	4	#10-1" Self-Tap Screw	. 4080716	36	1	Cooking Grid	. 7000023
17	1	Carry-Over Tube	. 7000277	37	1	Warming Rack	. 7000180
18	2	3/16 Pal Nut	. 7000132	38	1	Grease Tray	. 7000042
19	2	Casting Bumper	. 7000184	39	1	Grease Pan	. 7000046
20	1	Electrode w/Wing Nut	. 7000378				

# PARTS DIAGRAM - Model No. 415.162090



# **ASSEMBLY - Model No. 415.162090**

Use included Phillips head screwdriver to assemble your grill.

Size and type of hardware used in assembly of your grill may vary, but will not affect grill integrity, performance or assembly.

# "NEW" T. L. M. - Torque Locking Method

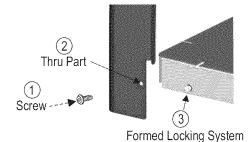
(1)

2

(3)

Screw + Thru Part + Formed Lock = Solid Lock Cart Structure

- The cart assembly utilizes the new T.L.M. fastening method.
- No need for the old style "Bolt & Nut" combination

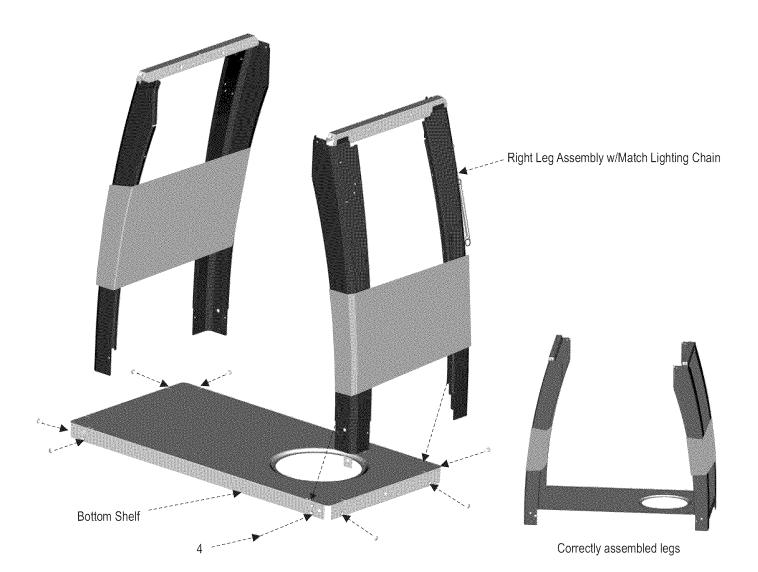


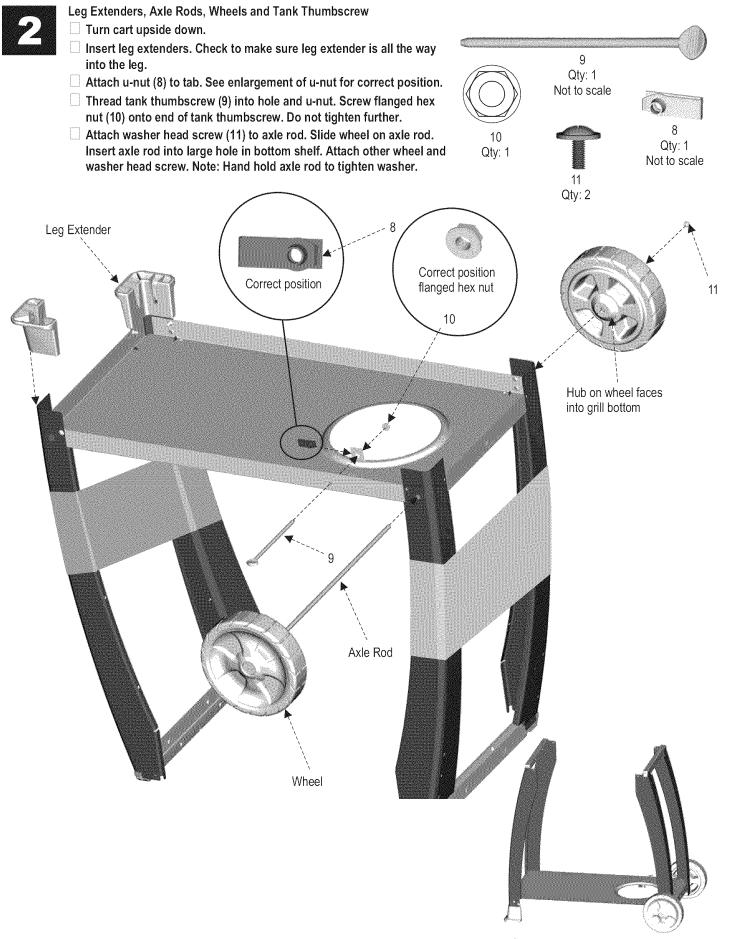


# **Cart Assembly**

- ☐ Place bottom shelf on table or grill shipping carton.
- ☐ Insert tabs on leg assembly with *match lighting chain* into right side of bottom shelf.
- ☐ Attach leg assembly with one screw (4) on each side.
- ☐ Insert tabs on leg assembly without match lighting chain into left side of bottom shelf.
- Attach leg assembly with two screws on each leg.







Stand cart upright and remove cardboard sleeves

# 3

# Rail Assembly

Overlap rails (all identical) and hook tabs into slots. Pull rails to latch.

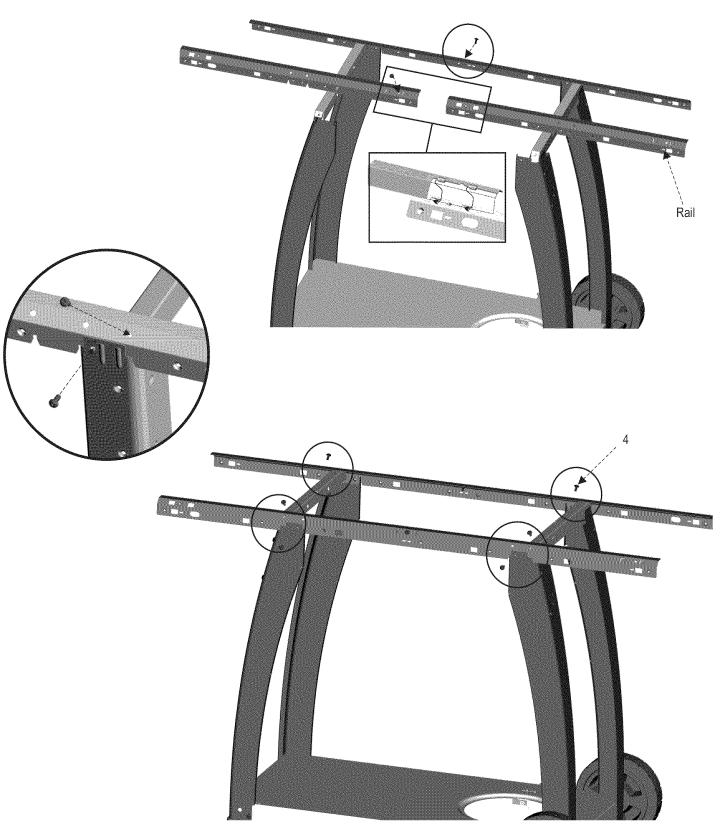
☐ Attach one screw (4) in center of each rail.

☐ Attach rail to legs with two screws in each corner.

HINT:

Firmly push rail down into leg notches. Attach lower screw first.



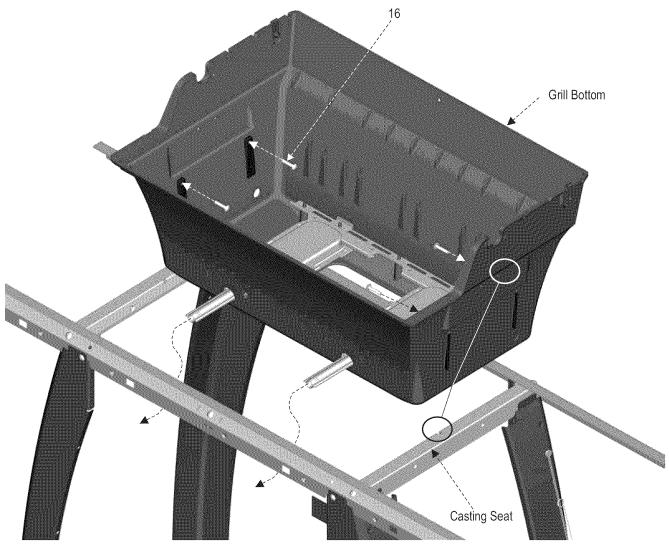


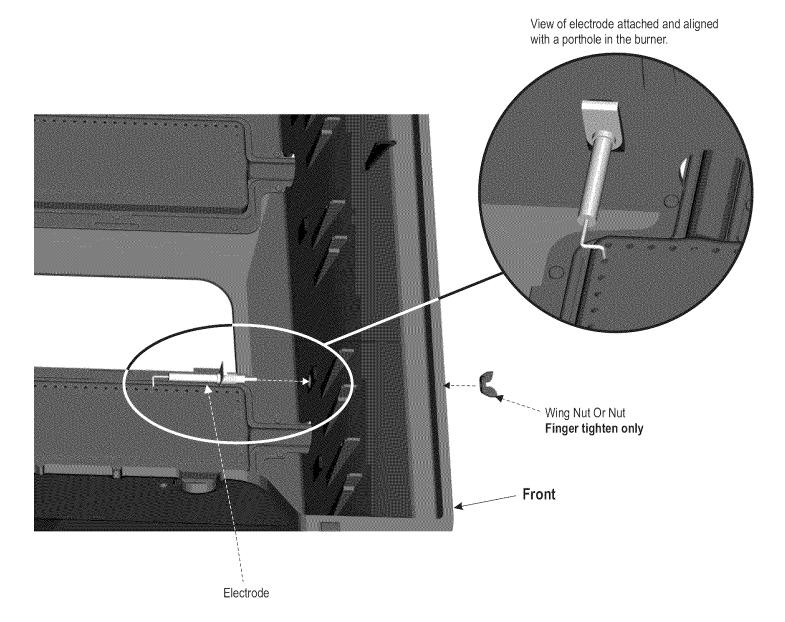


# **Grill Bottom Assembly**

- ☐ Angle grill bottom assembly around and under the rails.
- ☐ Make sure ribs on each side of bottom casting are nestled into notches on casting seat.
- Attach four screws (16) inside grill bottom and into casting seat.





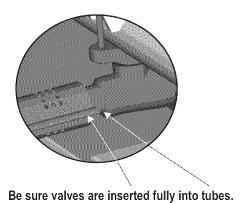




# **Console Assembly**

- ☐ Hold control panel close to bottom casting. Attach ignitor wire to electrode.
- Position valves into burner tubes (see burner-valve view). Rotate control panel up and rest flange over rail.
- ☐ Attach control panel to legs with four screws (4).



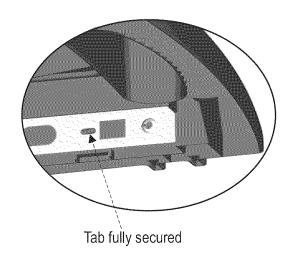


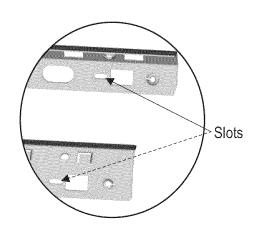
Burner Tube Ignitor Wire

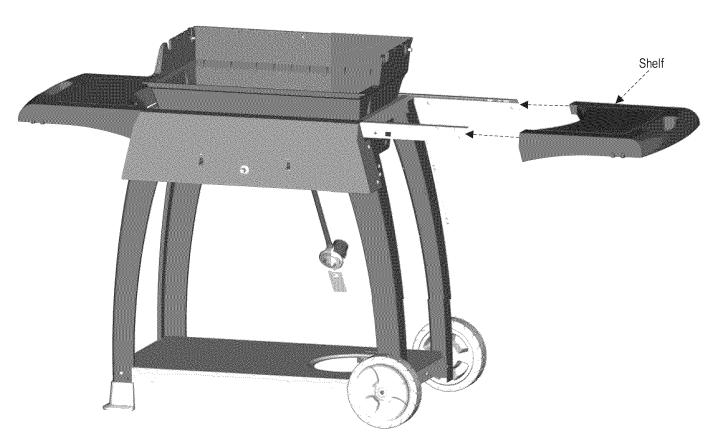
Control Panel

Ignitor Valve/Hose Regulator Assy

 $\hfill \square$  Slide shelf onto rails until it snaps into place.

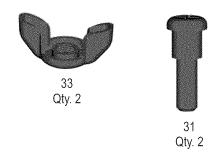


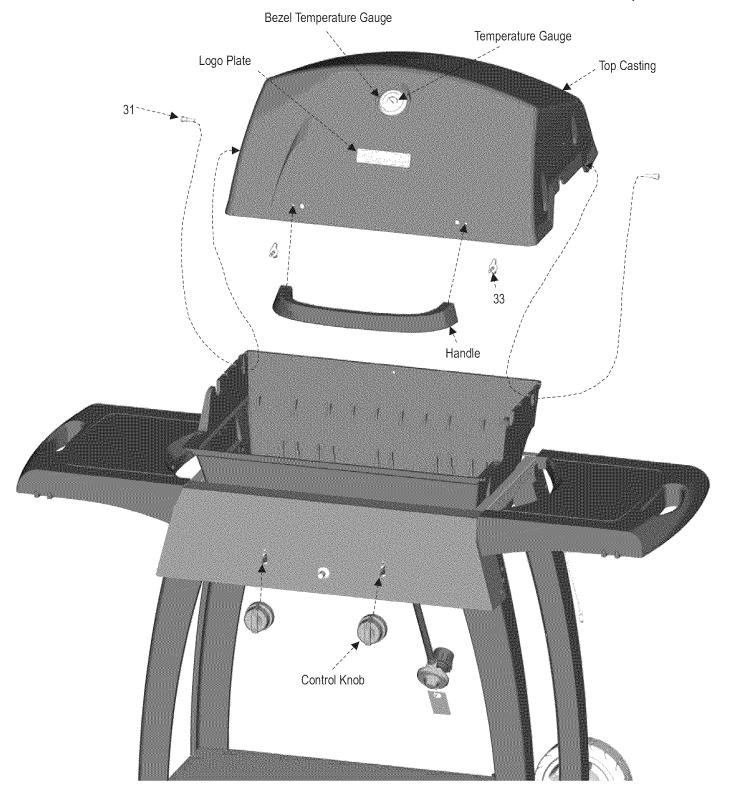




Top Casting, Handle and Control Knobs

- ☐ Attach top casting with shoulder bolts (31).
- ☐ Attach handle with wing nuts (33).
- ☐ Push control knobs onto valve stems.

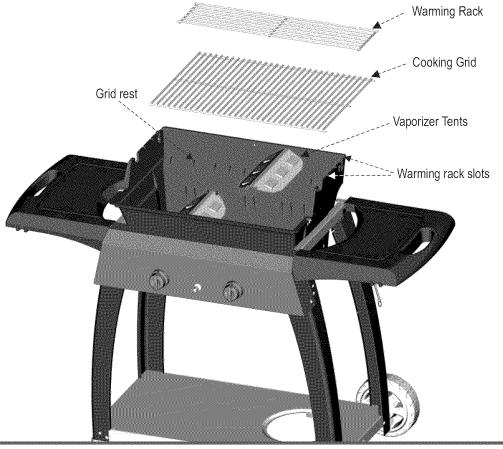






Vaporizer Tents, Cooking Grid and Warming Rack

Note correct position of vaporizer tents directly over burners.



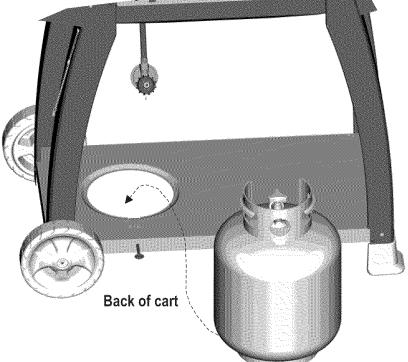
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LP Tank

□ LP tank is sold separately. Use only with an OPD (over-fill protection device) equipped LP tank. Fill and leak check before attaching to grill and regulator.

Place LP tank into hole in bottom shelf with tank collar opening facing front panel as shown. Finger tighten tank thumbscrew to hold LP tank securely in place.

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

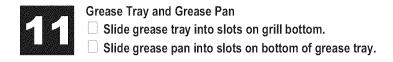




# **CAUTION**

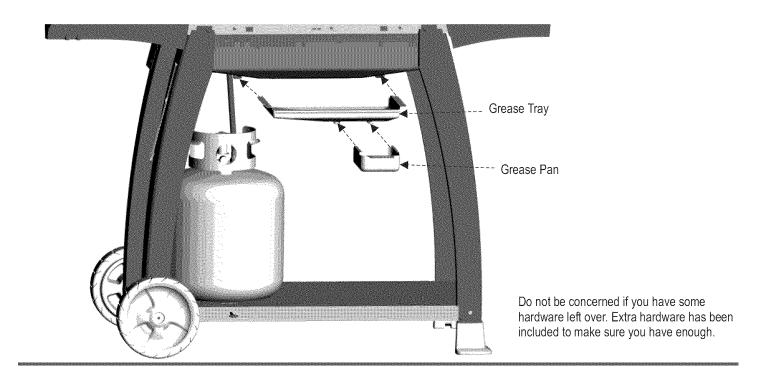


- Tank collar opening must face to front of cart once tank is attached.
- Failure to install tank correctly may allow gas hose to be damaged in operation, resulting in the risk of fire.





Failure to install the grease tray and grease pan will cause hot grease to drip from bottom of grill with risk of fire or property damage.



# **USE AND CARE**



# **DANGER**



- Never fill the cylinder beyond 80% full. An overfilled spare LP tank is hazardous due to possible gas released from the safety relief valve.
- · When LP tank is over 80% full, the safety relief valve on the LP tank could activate, releasing gas and cause an intense fire with risk of property damage, serious injury or death.
- NEVER store a spare LP tank under or near grill or in enclosed areas.

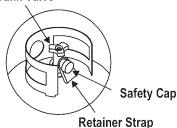


- · If you see, smell or hear escaping gas, immediately get away from the LP tank/grill and call your fire department.
- · All spare LP tanks must have safety caps installed on the LP tank outlet.

# 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



- · 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 (Liquefied Petroleum Gas)

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

# LP Tank Filling

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

# LP Tank Exchange

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

# LP Tank Leak Test

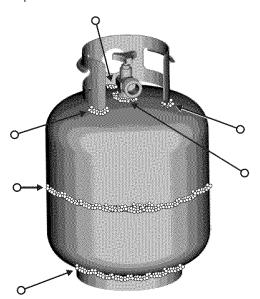
# For your safety

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



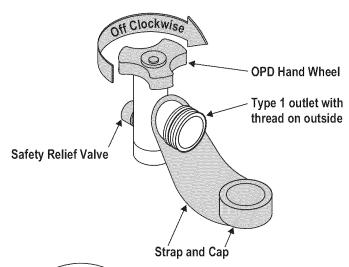
If "growing" bubbles appear do not use or move the LP tank. Contact an LP gas supplier or your fire department!

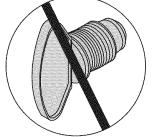
▲ Do not use household cleaning agents. Damage to gas train components can result.



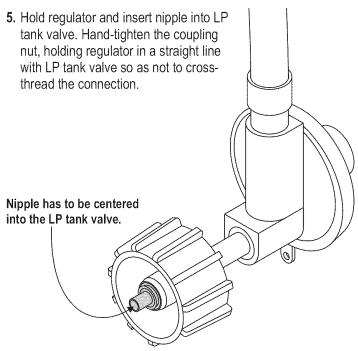
# Connecting Regulator To The LP Tank

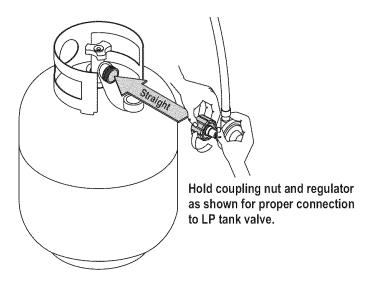
- **1.** LP tank must be properly secured onto grill. (Refer to assembly section.)
- 2. Turn all control knobs to the OFF position.
- **3.** Turn LP tank OFF by turning OPD hand wheel clockwise to a **full stop**.
- **4.** Remove the protective cap from LP tank valve. Always use cap and strap supplied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





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





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!** 



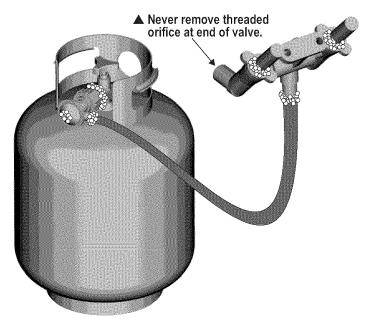
- Do not insert any tool or foreign objects into the valve outlet or safety relief valve. You may damage the valve and cause a leak. Leaking propane may result in explosion, fire, severe personal injury, or death..
- If a leak is detected at any time, STOP and call the fire department.
- If you cannot stop a gas leak, *immediately* close LP tank valve and call LP gas supplier or your fire department!

# WARNING I

- 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.

# 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:



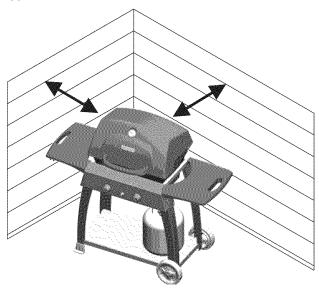
- 5. If "growing" bubbles appear, there is a leak. Close LP tank valve immediately and retighten connections. If leaks cannot be stopped do not try to repair. Call Sears for replacement parts at 1-800-4-MY-HOME<sup>®</sup>.
- **6.** Always close LP tank valve after performing leak test by turning hand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





# 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 cup **must** be attached to grease tray and emptied after each use. Do not remove grease cup 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.
- ▲ The regulator may make a humming or whistling noise during operation. This will not affect safety or use of grill.
- ▲ If you have a grill problem see the "Troubleshooting Section".



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



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

# **Ignitor Lighting**

- Do not lean over grill while lighting.
- 1. Open lid. Turn on gas at LP tank.
- 2. Turn left knob to ipreheat to light.
- 3. Push ignitor button rapidly (up to 5 times) to light. Be sure burner lights and stays lit.
- **4.** If burner does not light, turn knobs to **OFF**, wait 5 minutes, try again.
- 5. Once left burner is lit, turn right knob to 4 preheat to light.
- **6.** If ignitor does not work, wait 5 minutes, then follow match lighting instructions.

**After Lighting**: Turn knobs to **HIGH** position for warm-up. Do not warm up grill with knobs in **⊌** preheat position. Knobs and handle will become uncomfortably hot if left in preheat position.



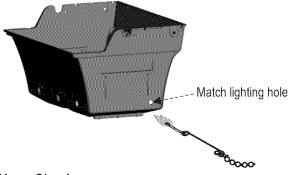
# **CAUTION**



If burner does not light, turn knobs to OFF, wait 5 minutes, and try again. Always close valve during the 5 minute waiting period. If the burner does not ignite with the valve open, gas will continue to flow out of the burner and could accidentally ignite with risk of injury.

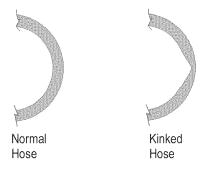
# **Match-Lighting**

- ▲ Do not lean over grill while lighting.
- 1. Open lid. Turn on gas at LP tank.
- 2. Match holder is on the right rear leg. Attach match to match holder, light match. Place match into match lighting hole from outside of grill bottom (as shown).



# 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.

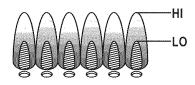


# **Before Your First Cookout**

• 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 HI to LO. You should see a smaller flame in LO position than seen on HI. Always check flame prior to each use. If only low flame is seen refer to "Sudden drop or low flame" in the *Troubleshooting Section*.



# **Turning Grill Off**

• Turn all knobs to **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. 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.
- Plated wire grates: Wash grates and V-bar 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.

# **Repainting Your Grill**

- After extended use and exposure to weather, paint on grill may deteriorate or become spotted. Although this detracts from grill's appearance, it will not impair its performance.
- To refinish your grill brush outside of grill lid and bottom with wire brush and lightly sand with fine grit sandpaper. Sanding allows new paint to adhere more easily. Wash grill lid and bottom with soap and water to remove dust and grease. Do not use a grill cleaner on outside of grill. Wipe with vinegar. Refinish outside with heat-resistant paint. Do not paint inside of grill.



# CAUTION



# **NATURAL HAZARD • SPIDERS**

**FACT:** Sometimes spiders and other small insects climb into the burner tubes attached to the burners. The spiders spin webs, build nests and lay eggs. The webs or nests can be very small, but they are very strong and can block the flow of gas. Clean burners prior to use after storing, at the beginning of grilling season or after a period of one month not being used.





Typical spider webs inside burner.

Spider guards are on the air intakes in an effort to reduce this problem, but it will not eliminate it! An obstruction can result in a "flashback" (a fire in the burner tubes). The grill may still light, but the obstruction does not allow full gas flow to the burners.

# IF YOU EXPERIENCE THE FOLLOWING:

- 1. Smell gas.
- 2. Burner(s) will not light.
- 3. A small yellow flame from burner (should be blue).
- **4.** Fire coming from around or behind control knob.

# STOP!

## Immediately turn off gas at LP tank!

▲ After a burner tube fire, you must inspect the hose and do a "Leak Test" to assure no damage has occured to the parts.

# **SOLUTION:**

# Wait for grill to cool.

Follow the "Cleaning The Burner Assembly" instructions. Clean burners often. Use a 12" pipe cleaner to clean out the burner tubes. You may also force a stream of water from a hose nozzle through burner tubes to clean them.

# **Cleaning The Burner Assembly**

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

- 1. Turn gas off at control knobs and LP tank.
- 2. Remove cooking grids and vaporizer tents.
- 3. Remove two pal nuts, carry-over tube and burners.
- 4. Under grill remove grease pan and tray. Clean with soap and water.
- 5. Under console disengage ignitor wire.
- 6. Wipe ceramic electrode with rubbing alcohol and cloth.
- 7. Clean carry-over tube and burners exterior with soap and water. Lay burners on flat surface, insert garden hose (preferably with nozzle), into burner tubes forcing water through tubes. Make sure water comes out of every porthole. Open clogged portholes with a thin wire. Shake out excess water and examine porthole. Due to normal wear and corrosion some portholes may become enlarged, if so replace burner. If any horizontal cracks appear from porthole to porthole or large holes (other than portholes) are found replace burner.
- If grill is to be stored, coat burners lightly with cooking oil. Wrap in protective cover to keep insects out. If not storing use following steps.

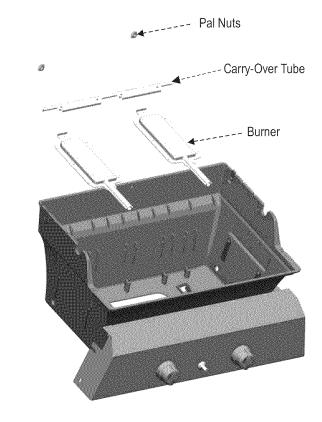
# **VERY IMPORTANT:**

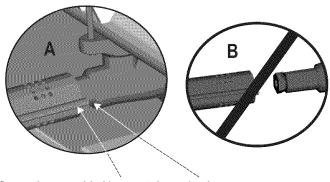
Burner tubes must engage valve openings as shown (A). Do not leave separated as shown in Figure B.

- 9. Attach ignitor wire to electrode.
- 10. Reposition cooking grids and vaporizer tents. Place clean grease tray and pan into grill bottom.
- 11. Before cooking again on grill, perform a "Leak Test" and "Burner Flame Check".
  - ▲ Do not use ceramic briquets or charcoal in your grill.

# Cleaning the Grease Tray

Your grill is equipped with a removable grease tray. Although grease will drain from the grease tray to the grease cup provided, food particles and debris may accumulate in the bottom and should be removed after cooking 5 to 10 times. This can easily be done by sliding the grease tray out of the rear of the unit. Make sure in replacing the tray to push it all the way forward.





Correctly assembled burner tube and valve.

# Storing Your Grill

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

# **Food Safety**

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

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

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

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

**Chill:** Refrigerate prepared foods and leftovers promptly.

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

# How To Tell If Meat Is Grilled Thoroughly

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

# **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
Beef 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.
Pork 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.
Lamb Chops 1/2"	Medium	6-12 min.
Poultry 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.
Seafood Steaks 1" thick	Medium-Hot	Well done: 10-25 min.
Fillets 6-8 oz.	Medium-Hot	8-12 min.
Shrimp large or jumbo	Low-Medium	8-12 min.
<u>Venison</u> 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.
Vegetables Baking Potato whole	Low	Wrap vegetables in foil 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

Emergencies	Possible Cause	Prevention/Solution
Gas leaking from cracked/cut/burned hose.	Old hose, cut in hose.	Turn off gas at LP tank. If hose is cut or cracked, replace valve/hose/regulator. If burned, discontinue use of product until a gas service technician/plumber has investigated cause and correction is made.
Gas leaking from LP tank.	Mechanical failure due to rusting or mishandling.	Turn off LP tank valve.
Gas leaking from LP tank valve.	Failure of tank valve from mishandling or mechanical failure.	Call LP gas dealer 800-number on tank label or call local fire department.
Gas leaking between LP tank and regulator connection.	Improper installation, connection not tight, failure of rubber seal.	Remove regulator from tank and visually inspect rubber seal for damage. Reinstall and check for leaks. Ensure black knob is on tight.
Fire coming through control panel.	Fire in burner tube section of burner due to partial blockage.	Turn off LP tank valve (if possible without injury to self). If fire cannot be controlled with baking soda/extinguisher, call local fire department. Remove burner and inspect for spider nest or rust. Clean using bottle brush.
	Misalignment of valve to burner tube.	Ensure valves and burner tubes are aligned per assembly instructions.
Grease fire or continuous excessive flames above cooking surface.	Too much grease buildup in burner area.	Turn off LP tank valve. Leave lid open to allow flames to die down.     After cooling, clean food particles and excess grease from inside firebox area, grease cup/pan/tray, and other surfaces.
Problem	Possible Cause	Prevention/Solution
Burner(s) will not light	GAS ISSUES: • Trying to light wrong burner.	See instructions on control panel and section in the Use and Care.
using ignitor.	Burner not engaged with control valve.	Make sure valves are positioned inside of burner tubes.
Continued on next page.	Obstruction in burner.	Ensure burner tubes are not obstructed with spider webs or other matter. See cleaning section of Use and Care.
	No gas flow.	Make sure LP tank is not empty. If LP tank is not empty, refer to "Sudden drop in gas flow."
	Vapor lock at coupling nut to LP tank.	Turn off knobs and disconnect coupling nut from LP tank. Reconnect and retry.
	Coupling nut and LP tank valve not fully connected.	Turn the coupling nut approximately one-half to three-quarters additional turn until solid stop. Tighten by hand only - do not use tools.
	ELECTRICAL ISSUES:     Electrode cracked or broken; "sparks at crack."	Replace electrode.
	Electrode tip not in proper position.	Tip of electrode should be pointing toward port hole in burner. The distance should be 1/8" to 3/16". Adjust if necessary.
	Wire and/or electrode covered with cooking residue.	Clean wire and/or electrode with rubbing alcohol and clean swab.
	Wires are loose or disconnected.	Reconnect wires or replace electrode/wire assembly.
	Wires are shorting (sparking) between ignitor and electrode.	Replace ignitor wire.

# Troubleshooting (continued)

Problem	Possible Cause	Prevention/Solution
Burner(s) will not light using ignitor.	<ul><li>Push-button sticks at bottom</li><li>Sparking between ignitor and electrode.</li></ul>	Replace ignitor.     Inspect wire insulation and proper connection. Replace wires if insulation is broken.
Burner(s) will not match light.	See "GAS ISSUES:" on previous page.     Improper method of match-lighting.	See "Match-Lighting" section of Use and Care.
Sudden drop in gas flow or low flame.	Out of gas.  Excess flow valve tripped.  Vapor lock at coupling nut/LP tank	Check for gas in LP tank.  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.  Turn off knobs and LP tank valve. Disconnect coupling nut from
Flames blow out.	<ul><li>Connection.</li><li>High or gusting winds.</li><li>Low on LP gas.</li><li>Excess flow valve tripped.</li></ul>	<ul> <li>tank. Reconnect and retry.</li> <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.	Grease buildup.     Excessive fat in meat.     Excessive cooking temperature.	<ul> <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.	Grease trapped by food buildup around burner system.	Turn knobs to OFF. Turn gas off at LP tank. Leave lid in position and let fire burn out. After grill cools, remove and clean all parts.
Flashback (fire in burner tube(s)).	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 manual.
Unable to fill LP tank.	Some dealers have older fill nozzles with worn threads.	The worn nozzles don't have enough "bite" to engage the valve. Try a second LP dealer.
One burner does not light from other burner(s).	Grease buildup or food particles in end(s) of carryover tube(s).	Clean carry-over tube(s) with wire brush.