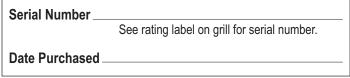
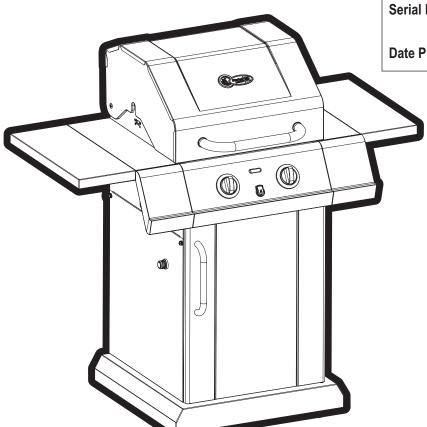


PRODUCT GUIDE MODEL 466250212

T-22D

IMPORTANT: Fill out the product record information below.





For support and to register your grill, please visit us at www.charbroil.com

If you have questions or need assistance during assembly, please call **1-888-430-7870**.



CONVERSION-READY

IMPORTANT: Refer to the instructions inside when converting this grill to Natural Gas.



TABLE OF CONTENTS For Your Safety 2-3 Use and Care 4-9 Limited Warranty 10 Parts List 11 Parts Diagram 12 Assembly 13-21 Conversion Instructions 22-25 Troubleshooting 26-28

Safety Symbols

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



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.



DANGER



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

INSTALLER/ASSEMBLER:

Leave this manual with consumer.

CONSUMER:

Keep this manual for future reference.



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



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



WARNING:

Failure to follow all manufacturer's instructions could result in serious personal injury and/or property damage.



CAUTION



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

\bigwedge

CAUTION:

Read and follow all safety statements, assembly instructions, and use and care directions before attempting to assemble and cook.



CAUTION:

Some parts may contain sharp edges. Wear protective gloves if necessary.

THIS GRILL IS FOR OUTDOOR USE ONLY.



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. If your grill is Dual Fuel ready, 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.
- 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.



WARNING



Do not attempt to repair or alter the hose/valve/regulator for any "assumed" defect. Any modification to this assembly will void your warranty and create the risk of a gas leak and fire. Use only authorized replacement parts supplied by manufacturer.

NOTE: DO NOT over tighten screws and washers that come into contact with porcelain coated surfaces. Over tightening may cause the porcelain coating to crack and break, resulting in exposed metal that will be prone to rust.



CAUTION



Using pots larger than 6 quarts in capacity could exceed weight limit of the

side burner shelf or side shelf, resulting in failure of grill cart components.



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.
- 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 Cylinder Removal, Transport and Storage

•Turn OFF all control knobs and LP cylinder valve. Turn coupling nut counterclockwise by hand only - do not use tools to disconnect. Loosen cylinder screw beneath bottom shelf or disconnect other retention means, then lift PL cylinder up and and out of cart. Install safety cap onto LP cylinder valve. Always use cap and strap supplied with valve.

Failure to use safety cap as directed may result in serious personal injury and/or property damage.

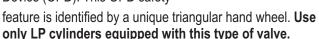
•A disconnected LP cylinder in storage or being transported must have a safety cap installed (as shown). Do not store an LP cylinder in enclosed spaces such as a carport, garage, porch, covered patio or other building. Never leave an LP cylinder inside a vehicle which may become overheated by the sun.



•Do not store an LP cylinder in an area where children play.

LP Cylinder

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



OPD Hand Wheel

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



LP cylinder in upright position for vapor withdrawal

LP (Liquefied Petroleum Gas)

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

LP Cylinder Filling

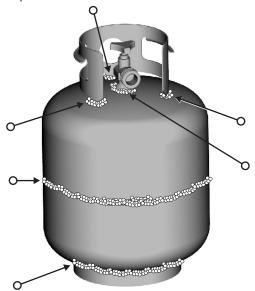
- •Use only licensed and experienced dealers.
- •LP dealer must purge new cylinder before filling.
- •Dealer should **NEVER** fill LP cylinder more than 80% of LP cylinder volume. Volume of propane in cylinder will vary by temperature.
- •A frosty regulator indicates gas overfill. Immediately close LP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

LP Cylinder Exchange

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

LP Cylinder Leak Test For your safety

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





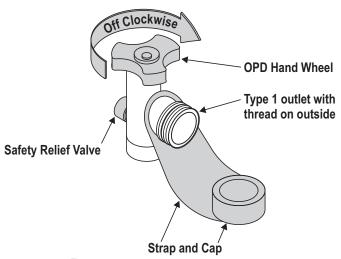
WARNING



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

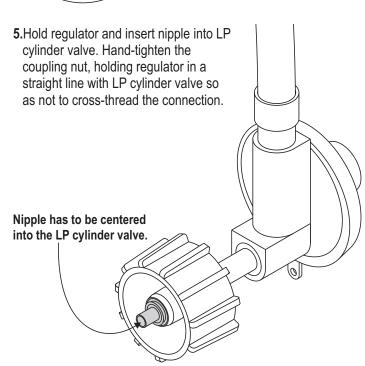
Connecting Regulator to the LP Cylinder

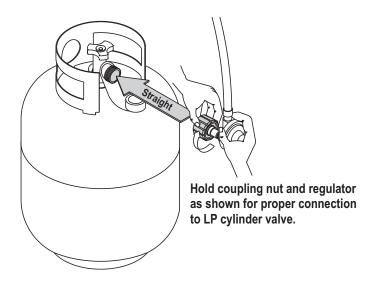
- **1.**LP cylinder must be properly secured onto grill. (Refer to assembly section.)
- 2. Turn all control knobs to the OFF position.
- **3.**Turn LP cylinder OFF by turning hand-wheel clockwise to a **full stop**.
- **4.**Remove the protective cap from LP cylinder valve. Always use cap and strap supplied 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 cylinder valve, resulting in some resistance. An additional one-half to three-quarters turn is required to complete the connection. Tighten by hand only – do not use tools.

NOTE:

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



DANGER



 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.



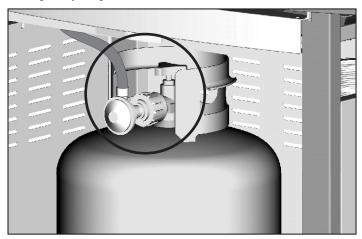
WARNING

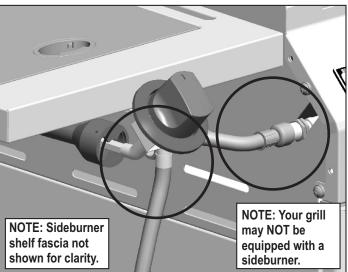


- Outdoor gas appliance is not intended to be installed in or on a boat.
- Outdoor gas appliance is not intended to be installed in or on an RV.
- Never attempt to attach this grill to the self-contained LP gas system of a camper trailer or motor home.
- Do not use grill until leak-tested.
- If a leak is detected at any time, STOP and call the fire department.
- If you cannot stop a gas leak, immediately close 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 cylinder.
- 3.Completely open LP cylinder valve by turning hand wheel counterclockwise. If you hear a *rushing sound*, turn gas off immediately. There is a major leak at the connection. Correct before proceeding.
- **4.**Brush soapy solution onto areas circled below, or other similar fittings on your grill.





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

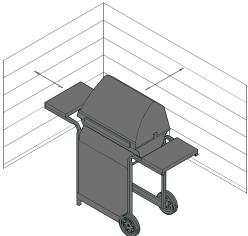


WARNING



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



· 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 cylinder out of correct position specified in assembly instructions.
- Always close LP cylinder valve and remove coupling nut before moving LP cylinder from specified operation position.

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.
- ▲ 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.
- ▲ Clean grill often, preferably after each cookout. If a bristle brush is used to clean any of the grill cooking surfaces, ensure no loose bristles remain on cooking surfaces prior to grilling. It is not recommended to clean cooking surfaces while grill is hot.
- ▲ If you notice grease or other hot material dripping from grill onto valve, hose or regulator, turn off gas supply at once.

 Determine the cause, correct it, then clean and inspect valve, hose and regulator before continuing. Perform a leak test.
- ▲ Keep ventilation openings in cylinder enclosure (grill cart) free and clear of debris.
- ▲ Do not store objects or materials inside the grill cart enclosure that would block the flow of combustion air to the underside of either the control panel or the firebox bowl.
- ▲ The regulator may make a humming or whistling noise during operation. This will not affect safety or use of grill.
- ▲ If you have a grill problem see the "Troubleshooting Section".
- ▲ 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. Follow instructions on General Grill Cleaning and Cleaning The Burner Assembly to prevent grease fires.

Main Burner Ignitor Lighting

- ▲ Do not lean over grill while lighting.
- 1. Turn O OFF all gas burner control valves.
- 2. Turn ON gas source or tank.
- 3. Open lid during Lighting.
- 4. To ignite any main burner, turn the main burner control knob to the position.
- 5. Push and hold ELECTRONIC IGNITOR button until the burner lights.
- 6. Once burner has ignited, turn knob to desired setting.
- 7. If Ignition does not occur in 5 seconds, turn the burner control to OFF, wait 5 minutes, and repeat the lighting procedure.
- 8. Repeat steps 4 through 7 for the remaining main burners.

 Lighting instructions continued on next page.



WARNING



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



CAUTION

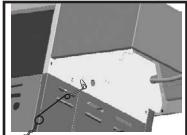


If ignition does NOT occur in 5 seconds, turn the burner controls OFF, wait 5 minutes and repeat the lighting procedure. If the burner does not ignite with the valve open, gas will continue to flow out of the burner and could accidently ignite with risk of injury.

Main Burner Match-Lighting

▲ Do not lean over grill while lighting.

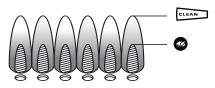
- 1. Turn **OFF** all gas burner control valves.
- **2.** Turn **ON** gas at LP cylinder.
- 3. Open lid during lighting.
- **4.**Place match into match holder (hanging from side of cart). Light match, place into lighting hole on right or left side of firebox.
- **5.**Push in and turn far right or far left knob to position. Be sure burner lights and stays lit.
- 6.If ignition does NOT occur in 5 seconds, turn the burner control knob OFF, wait 5 minutes, and repeat the lighting procedure.
- 7. Light other burners by pushing knob in and turning to position. If your grill has two cooking zones, repeat steps 4 through 6 for the remaining section of the grill.



Burner Flame Check

•Remove cooking grates and troughs. Light burners, rotate knobs from
• You should see a smaller flame in

position than seen on ELLAND. 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 cylinder off by turning hand-wheel clockwise to a full stop.

Ignitor Check

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

Valve Check

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

Hose Check

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

General Grill Cleaning

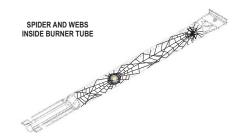
- •Do not mistake brown or black accumulation of grease and smoke for paint. Interiors of gas grills are not painted at the factory (and should never be painted). Apply a strong solution of detergent and water or use a grill cleaner with scrub brush on insides of grill lid and bottom. Rinse and allow to completely air dry. Do not apply a caustic grill/oven cleaner to painted surfaces.
- Plastic parts: Wash with warm soapy water and wipe dry.
 Do not use citrisol, abrasive cleaners, degreasers or a concentrated grill cleaner on plastic parts. Damage to and failure of parts can result.
- Porcelain surfaces: Because of glass-like composition, most residue can be wiped away with baking soda/water solution or specially formulated cleaner. Use nonabrasive scouring powder for stubborn stains.
- •Painted surfaces: Wash with mild detergent or nonabrasive cleaner and warm soapy water. Wipe dry with a soft nonabrasive cloth.
- •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.



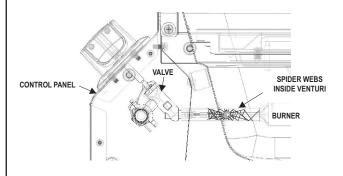
CAUTION



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

Cleaning the Burner Assembly

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

- 1. Turn gas OFF at control knobs and LP cylinder.
- 2. Remove cooking grates and troughs.
- 3. Remove cotter pins and carryover tubes from front of burners.
- 4. Remove cotter pin and lift burner to disengage from bracket on firebox.
- 5. Use flat blade screwdriver to pry off electrode from burner. Electrode should remain in firebox.
- 6. Carefully lift each burner up and away from valve openings.

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

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



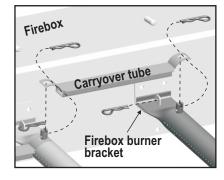
- **(B)** Use a narrow bottle brush with a flexible handle (do not use a brass wire brush), run the brush through each burner tube several times.
- **(C)** Wear eye protection: Use an air hose to force air into the burner tube and out the burner ports. Check each port to make sure air comes out each hole.
- 7. Wire brush entire outer surface of burner to remove food residue and dirt.
- 8. Clean any blocked ports with a stiff wire such as an open paper clip.
- 9. Check burner for damage, due to normal wear and corrosion some holes may become enlarged. If any large cracks or holes are found replace burner.

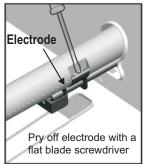
VERY IMPORTANT: Burner tubes must reengage valve openings. See illustrations at right.

- 10. Attach electrode to burner.
- 11. Carefully replace burners.
- 12. Attach burners to brackets on firebox

Correct burner-to-valve engagement

13. Reposition carryover tubes and attach to burners. Replace troughs and cooking grates.





LIMITED WARRANTY

This warranty only applies to units purchased from an authorized retailer. Manufacturer warrants to the **original consumer-purchaser** only that this product shall be free from defects in workmanship and materials after correct assembly and under normal and reasonable home use for the periods indicated below beginning on the date of purchase*. The manufacturer reserves the right to require that defective parts be returned, postage and or freight pre-paid by the consumer for review and examination.

SCOPE OF COVERAGE

PERIOD OF COVERAGE

TYPE OF FAILURE COVERAGE

Stainless Burner	Limited Lifetime	PERFORATION, MANUFACTURING,
Firebox and Lid	2 years from date of purchase*	AND MATERIAL DEFECTS ONLY
All Other Parts	1 year from date of purchase*	

*Note: A dated sales reciept WILL be required for warranty service.

The original consumer-purchaser will be responsible for all shipping charges for parts replaced under the terms of this limited warranty.

This limited warranty is applicable in the United States and Canada only, is only available to the original owner of the product and is not transferable. **Manufacturer requires proof of your date of purchase. Therefore, you should retain your sales slip or invoice.** Registering your product is not a substitute for proof of purchase and the manufacturer is not responsible for or required to retain proof of purchase records.

This limited warranty applies to the functionality of the product ONLY and does not cover cosmetic issues such as scratches, dents, corrosions or discoloring by heat, abrasive and chemical cleaners or any tools used in the assembly or installation of the appliance, surface rust, or the discoloration of stainless steel surfaces. **RUST is not considered a manufacturing or materials defect.**

This limited warranty will not reimburse you for the cost of any inconvenience, food, personal injury or property damage.

ITEMS MANUFACTURER WILL NOT PAY FOR:

- 1. Shipping cost, standard or expedited, for warranty and replacement parts
- 2. Service calls to your home.
- 3. Repairs when your product is used for other than normal, single-family household or residential use.
- 4. Damage, failures, or operating difficulties resulting from accident, alteration, careless handling, misuse, abuse, fire, flood, acts of God, improper installation or maintenance, installation not in accordance with electrical or plumbing codes, or use of products not approved by the manufacturer.
- 5. Any food loss due to product failures or operating difficulties.
- 6. Replacement parts or repair labor costs for units operated outside the United States or Canada.
- 7. Pickup and delivery of your product.
- 8. Repairs to parts or systems resulting from unauthorized modifications made to the product.
- 9. The removal and/or reinstallation of your product.

DISCLAIMER OF IMPLIED WARRANTIES and LIMITATION OF REMEDIES

Repair or replacement of defective parts is your exclusive remedy under the terms of this limited warranty. In the event of parts availability issues, the manufacturer reserves the right to substitute like or similar parts that are equally functional.

Manufacturer will not be responsible for any consequential or incidental damages arising from the breach of either this limited warranty or any applicable implied warranty, or for failure or damage resulting from acts of God, improper care and maintenance, grease fire, accident, alteration, replacement of parts by anyone other than Manufacturer, misuse, transportation, commercial use, abuse, hostile environments (inclement weather, acts of nature, animal tampering), improper installation or installation not in accordance with local codes or printed manufacturer instructions.

THIS LIMITED WARRANTY IS THE SOLE EXPRESS WARRANTY GIVEN BY THE MANUFACTURER. NO PRODUCT PERFORMANCE SPECIFICATION OR DESCRIPTION WHEREVER APPEARING IS WARRANTED BY MANUFACTURER EXCEPT TO THE EXTENT SET FORTH IN THIS LIMITED WARRANTY. ANY IMPLIED WARRANTY PROTECTION ARISING UNDER THE LAWS OF ANY STATE, INCLUDING IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, IS HEREBY LIMITED IN DURATION TO THE DURATION OF THIS LIMITED WARRANTY.

Neither dealers nor the retail establishment selling this product has any authority to make any additional warranties or to promise remedies in addition to or inconsistent with those stated above. Manufacturer's <u>maximum liability</u>, in any event, shall not exceed the purchase price of the product paid by the original consumer.

NOTE: Some states do not allow an exclusion or limitation of incidental or consequential damages, so some of the above limitations or exclusions may not apply to you. This limited warranty gives you specific legal rights as set foth herein. You may also have other rights which vary from state to state. In the state of California only, if refinishing or replacement of the product is not commercially practicable, the retailer selling this product or the Manufacturer will refund the purchase price paid for the product, less the amount directly attributable to use by the original consumer-purchaser prior to discovery of the nonconformity. In addition, in the state of California only, you may take the product to the retail establishment selling this product in order to obtain performance under this limited warranty.

If you wish to obtain performance of any obligation under this limited warranty, you should

write to: Consumer Relations P. O. Box 1240 Columbus, GA 31902-1240

Consumer returns will not be accepted unless a valid Return Authorization is first acquired. Authorized returns are clearly marked on the outside of the package with an RA number and the package is shipped freight/postage pre-paid. Consumer returns that do not meet these standards will be refused.

PARTS LIST

Key	Qty	Description
A	1	TOP LID
В	2	BEZEL, F/ LID HANDLE
С	1	HANDLE F/ TOP LID
D	1	LOGO PLATE, TEMP GAUGE
Е	2	RUBBER BUMPER, RECTANGLE, F/ TOP LID
F	1	FIREBOX
G	2	COOKING GRATE
Н	1	WARMING RACK
I	2	MAIN BURNER, F/ FIREBOX
J	2	ELECTRODE W/ WIRE/COLLECTOR, F/ MAIN BURNER
K	1	CARRY OVER, F/ MAIN BURNER
L	2	SIDE SHELF, FIXED
М	2	SIDE SHELF, FOLDING
N	1	FASCIA, F/ LEFT SIDE SHELF
0	1	FASCIA, F/ RIGHT SIDE SHELF
Р	1	MAIN CONTROL PANEL
Q	1	HOSE VALVE REGULATOR ASSY
R	1	MATCH HOLDER
S	2	BEZEL, F/ CONTROL KNOB
Т	2	CONTROL KNOB
U	1	CART UPPER BACK PANEL
V	1	HEAT SHIELD, F/ TANK
W	1	FRONT DOOR BRACE
Х	1	ELECTRONIC IGNITION MODULE
Υ	1	BUTTON, F/ ELECTRONIC IGNITION MODULE
Z	1	IGNITER SWITCH MODULE
AA	1	DOOR, NO HANDLE
BB	1	DOOR HANDLE
CC	1	CART LEFT SIDE PANEL
DD	1	CART RIGHT SIDE PANEL
EE	1	BOTTOM SHELF
FF	1	TANK SCREW, F/ BOTTOM SHELF
GG	2	CASTER, LOCKING
НН	2	CASTER, FIXED
II	1	HARDWARE F/ TOP LID ASSEMBLY
JJ	2	RUBBER BUMPER, LID
KK	1	TROUGH, FIREBOX

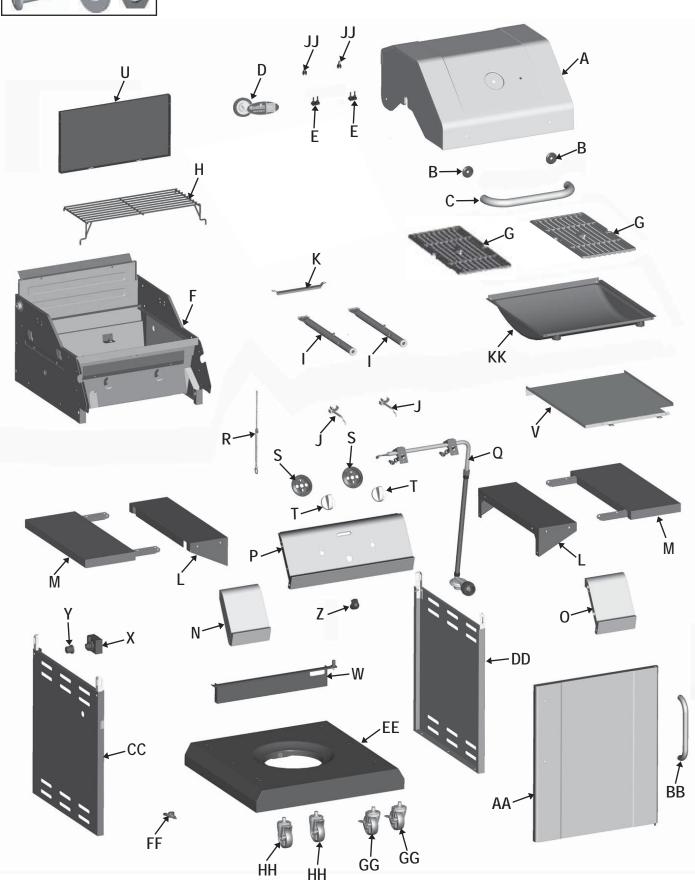
NOT Pictured

Key	Qty	Description
	1	DOOR MAGNET
	1	CASTER PIN
	1	HARDWARE PACK
	1	ASSEMBLY MANUAL, ENGLISH
	1	ASSEMBLY MANUAL, FRENCH

NOTE: Some grill parts shown in the assembly steps may differ slightly in appearance from those on your particular grill model. However, the method of assembly remains the same.

PARTS DIAGRAM

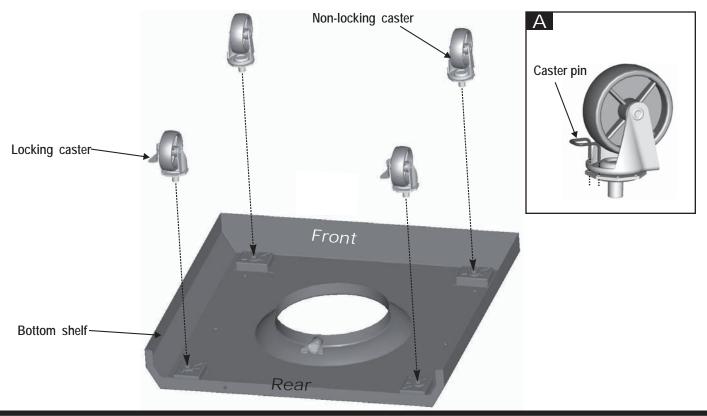


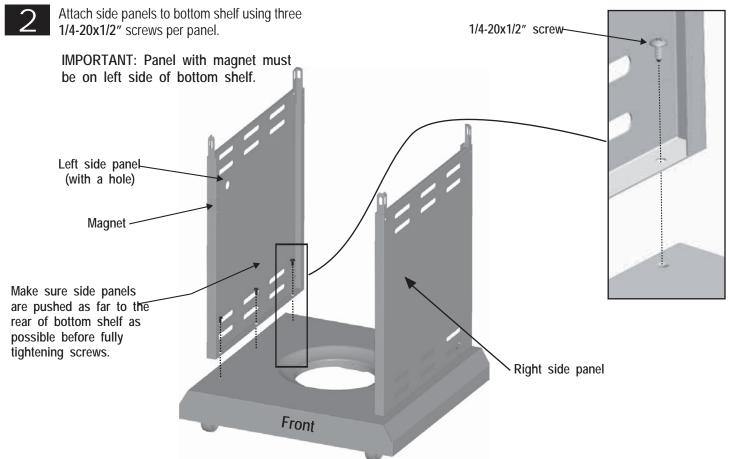


ASSEMBLY

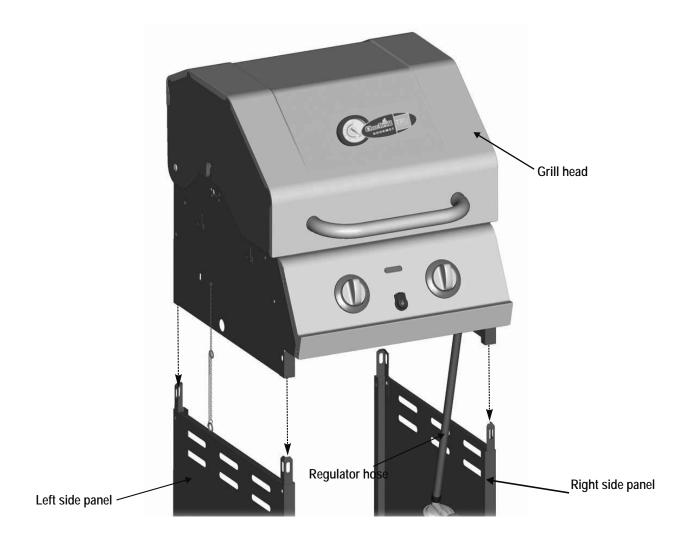
1

Place bottom shelf upside down. Insert Caster Pin into the caster mounting plate to lock it in place, shown A. Spin the caster clockwise into the threads on the bottom shelf until secure. Remove the Caster Pin and repeat for remaining casters. Make sure the two locking casters are secured at the rear and the non-locking casters are secured at the front. After all 4 casters are secure remove the Caster Pin and save for future maintenance.





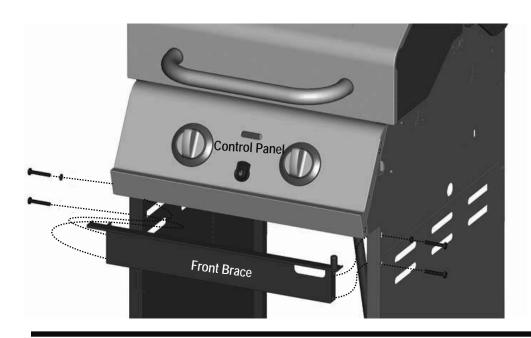
This step requires two people to lift and position grill head onto cart. Untie regulator hose which is factory bundled underneath the grill head. Carefully lower the grill head onto the cart, aligning slots at bottom of grill head with posts on cart side panels. Make sure regulator hose is hanging inside the cart.

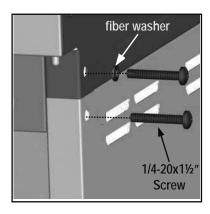


Note: DO NOT over tighten screws and washers that come into contact with porcelain coated surfaces. Over tightening may cause the porcelain coating to crack and break, resulting in exposed metal that will be prone to rust.



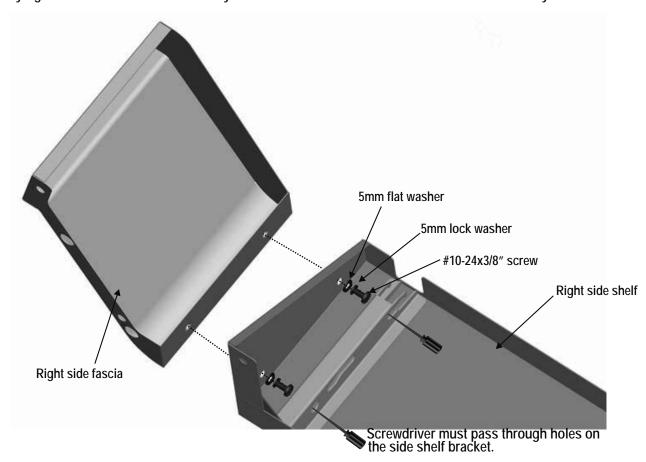
Insert front brace under control panel and between cart side panels, oriented as shown. Secure upper holes using one 1/4-20x1½" screw and fiber washer on each side. Secure lower holes using one 1/4-20x1½" screw on each side.





5

Attach right side fascia to right side shelf using two #10-24x3/8" screws, 5mm lock washers and 5mm flat washers. Only right side shelf shown for assembly. Install left side fascia to left side shelf in the same way.



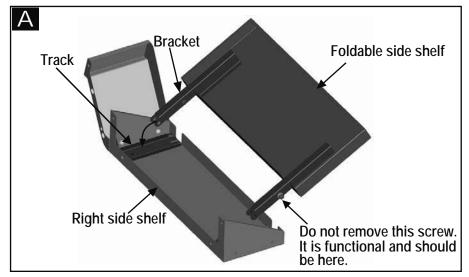


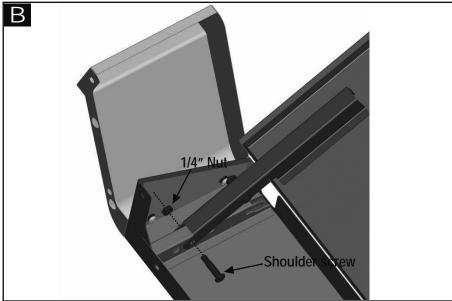
Attach foldable side shelf brackets to the slots in the tracks under right side shelf using one shoulder screw and 1/4" nut each side, shown A/B.

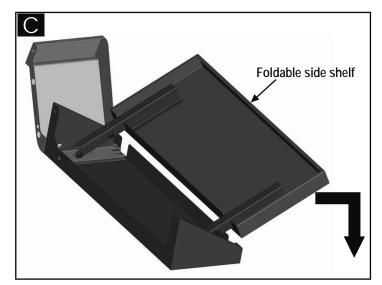
Pull foldable side shelf outward and press it down, shown C.

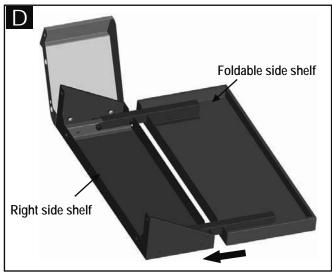
Push foldable side shelf toward right side shelf untill they meet, shown D.

Only right side shelf shown for assembly, repeat above steps to Install left side shelf with foldable side shelf.

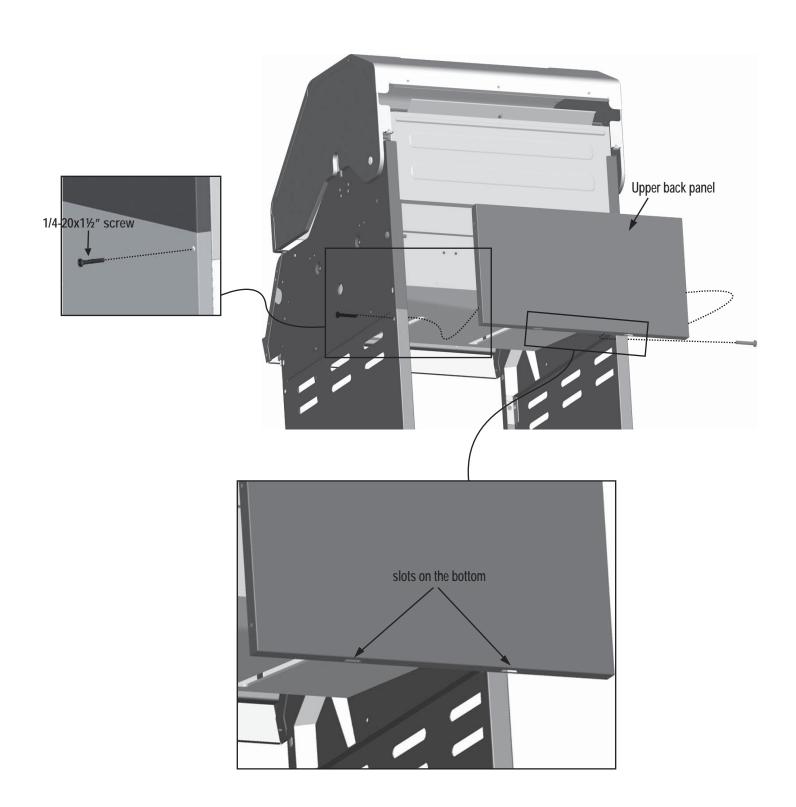












8

Insert flange on right side shelf into side shelf brackets on side of firebox, shown ${\bf A}.$

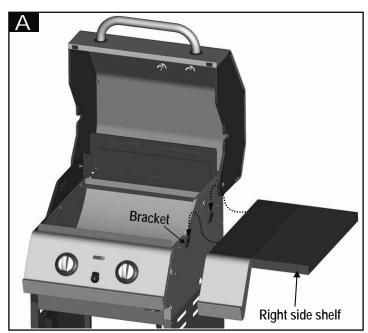
Attach right side shelf using two 1/4-20x3/4" screws and 1/4" nut, shown B.

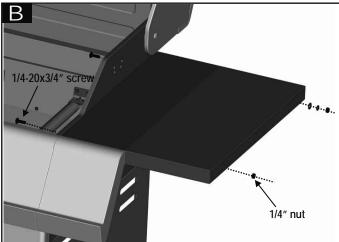
Attach front of shelf using three #8x3/8" self-tapping screws and large flat washers, shown C.

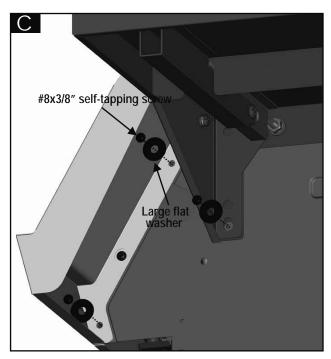
Note: For ease of assembly, use a long-blade screw driver for this step.

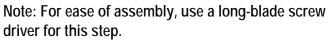
Attach rear of shelf using one 1/4-20x11/2" screw, shown D.

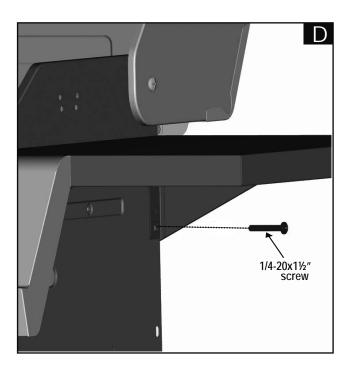
Only right side shelf shown for assembly, repeat above steps to install left side shelf.





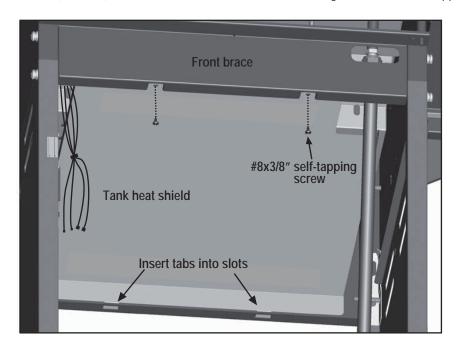








Inside of cart, insert rear tabs (w/o holes) of tank heat shield into slots on the bottom of upper back panel. Attach front tabs (w/ holes) of tank heat shield under front brace using two #8x3/8" self-tapping screws.

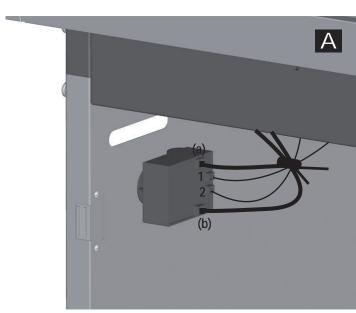


10

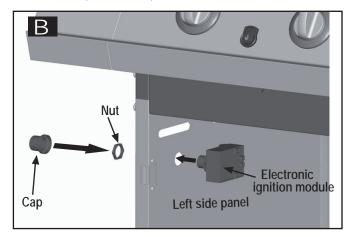
Connect each of the wires from main burner electrodes into the back of the Electronic Ignition Module. Total (2) connections. Connect the two wires [(a) and (b)] from the switch wiring harness into the back of the Electronic Ignition Module. Total (2) connections, shown **A**.

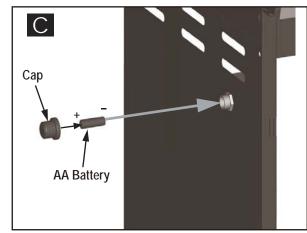
Unscrew the cap and nut from electronic ignition module. Attach electronic ignition module to the cart left side panel with the nut, shown **B**.

Insert AA battery into electronic ignition module, negative (—) end first. Replace the cap, shown C.



NOTE: Switch terminals are larger than electrode terminals and should only be installed in location shown as (a), (b).





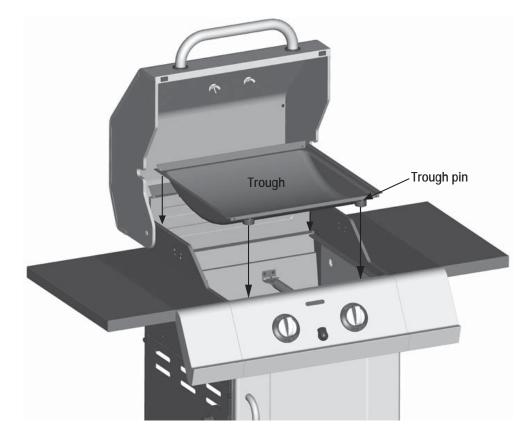
11

Attach door handle to door using two #10-24x3/8" screws, 5mm lock washers and 5mm flat washers, shown A. Insert hinge pin on bottom of door into hole in bottom shelf. Press upper hinge pin in front brace, align hinge hole on top of door, and release hinge pin into door.



12

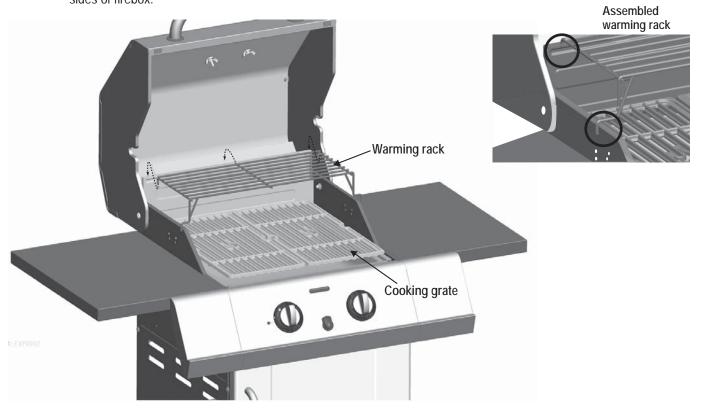
Place trough into fire box. Align pins at front of trough with the holes at front of fire box.



13

Place cooking grates onto the firebox as shown.

Insert the three wire ends at rear of warming rack into holes in back of firebox. Front wires of warming rack rest on sides of firebox.



LP TANK IS SOLD SEPARATELY. Fill and leak check the tank before attaching to grill and regulator (see Use & Care section).

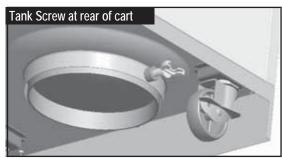
Once tank has been filled and leak checked, place cylinder into cut-out in bottom shelf. Make sure tank valve is facing front of grill. Secure tank with tank screw under bottom shelf.

See Use & Care section of this manual to perform the "Burner Flame Check" and for important safety instructions before using.





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



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

Consumer must purchase Natural Gas Conversion Kit 4584625 to convert this grill to natural gas. Use the following instructions instead of instructions found in conversion kit

Main Burner Conversion

1

Make sure all Control Knobs are in the OFF position, LP Tank Valve is closed, Tank is disconnected from Regulator and removed from Grill.

Remove Warming Rack, Cooking Grates and Troughs.

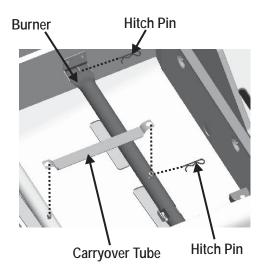
Your grill may differ from illustration shown. This portion of the manual covers a variety of grill styles. Use pictures as reference only. Not all steps will apply to your grill conversion.

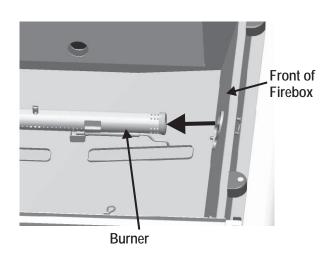
2

Remove Hitch Pins and remove Carryover Tubes.

Remove Hitch Pins at back of Burners to detach Burners from Burner Brackets.

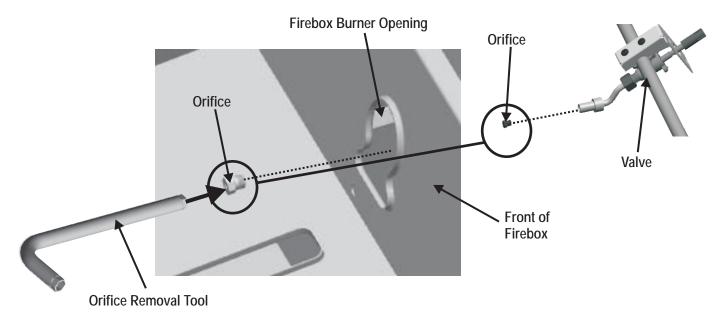
Lift back of Burner while sliding Burner out of Firebox, disengaging burners from Valves.





3

Insert Orifice Removal Tool provided with Kit into Firebox Burner openings and unscrew Orifices from ends of Valves. Save removed Orifices and Orifice Removal Tool for converting back to LP Tank Gas. These grill valves are designed to work with Natural Gas once Orifices are removed. Do not replace any Main Burner Orifices when using Natural Gas.



4

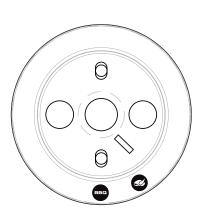
Pull the Burner Control Knobs off of Valve Stems.

Remove Screws and Washers that secure each Bezel to the Control Panel. Save removed Bezels for converting back to LP Tank Gas.

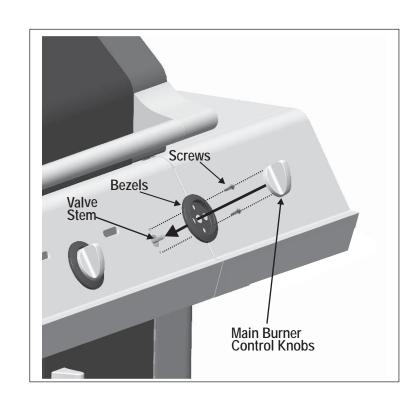
Install new Natural Gas Bezels provided with Kit (see illustration below) in place of old Bezels, on Control Panel and secure using previously removed Screws and Washers. Assure proper alignment with Control Knob before fully tightening.

Note: New Bezels will change the rotation for the Control Knob to properly control ignition and flames for your grill. Press Control Knob back onto Valve Stems. Make adjustments to Bezels for free movement of Control Knobs.

Note: Replace only one Bezel at a time.



Natural Gas Bezel 80007893



5

Insert Burners into Firebox Burner openings, then over Valves with burner crossover port holes downward, making sure Burner engages Valve properly.

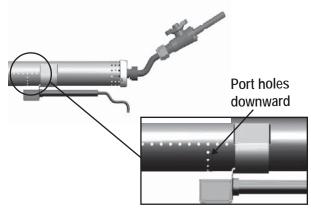
See below diagram.

Secure Burners to Burner Brackets with previously removed Hitch Pins. Replace Carryover Tubes and secure with Hitch Pins previously removed. Reference illustration Step 2.

Tube Burner

Correct burner-to valve engagement

Incorrect burner-to valve engagement



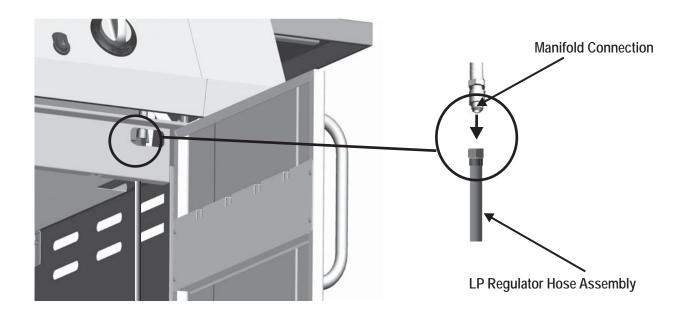


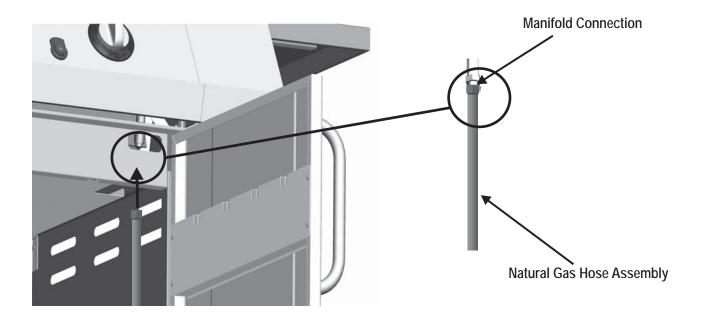
Natural Gas Hose Conversion



Using a wrench, not provided, remove LP Regulator Hose Assembly from Manifold Connection. Save removed LP Manifold Connection for converting back to LP Tank Gas.

Your Grill may differ from illustration shown.







WARNING



Do not use hard metal piping of any kind to connect this type of grill to natural gas source. Use only hose specified by manufacturer. Using hard metal piping or convoluted metal tubing is an unsafe practice. Movement of the grill can cause breakage of metal pipe.

Connecting Your Grill to the Natural Gas Source.

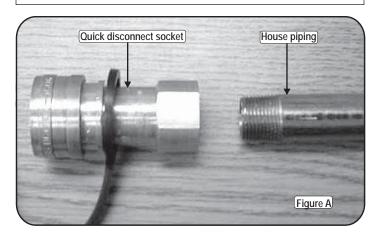
- A professionally-installed shut-off valve between the supply piping and the socket is recommended, but not required, by the National Fuel Gas Code. Socket connection must be made outdoors.
- 2. Coat the gas supply pipe nipple with gas resistant pipe dope or approved teflon tape. Screw socket onto gas supply pipe (house gas source) as shown in Figure A below, and wrench-tighten.



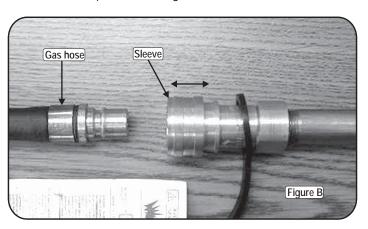
CAUTION



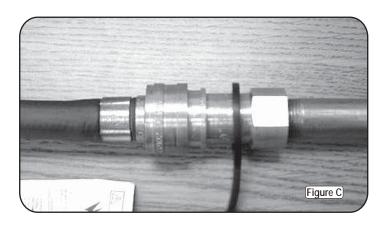
The quick disconnect socket should never be connected to the grill. Direction of gas flow is indicated on the socket.



Pull back the sleeve on the quick disconnect socket and insert the unattached end of the gas hose into the socket. Release the sleeve and continue pushing the hose into the socket until the sleeve snaps into the locked position. See Figure B.



4. When the quick disconnect socket and the gas hose are connected, a valve in the socket opens automatically to permit full gas flow. When the gas hose is disconnected, the valve in the socket instantly and positively shuts off the flow of gas. Because the valve in the socket positively shuts off the flow of gas, the grill can be disconnected from the gas source by disconnecting the gas hose from the quick disconnect socket. The socket should be left attached to the gas source (house piping). Figure C, below, shows properly connected hose and socket.



With proper assembly, the gas hose cannot be removed without pushing the quick disconnect sleeve back. To disconnect, push sleeve back and pull plug out of sleeve (this automatically shuts off gas).

Please Note: Hose and assembly are C.S.A. listed for natural gas, manufactured gas, mixed gas and for liquefied petroleum and for LP Gas-Air mixtures on basis of 0.64 specific gravity for 1000 BTU's per cubic foot of gas at 0.3 in. water column pressure drop. Only ANSI Z21.54 approved hoses should be used with this grill.

The appliance and its individual shut off valve must be disconnected from the gas supply piping system during any pressure testing on that system at test pressures in excess of 1/2 psig (3.5kPa).

The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5kPa).

DANGER: 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
Burner(s) will not light using ignitor. (See Electronic Ignition Troubleshooting also) Continued on next page.	 GAS ISSUES: Trying to light wrong burner. Burner not engaged with control valve. Obstruction in burner. No gas flow. Vapor lock at coupling nut to LP cylinder. Coupling nut and LP cylinder valve not fully connected. ELECTRICAL ISSUES: Electrode cracked or broken; "sparks at crack." Electrode tip not in proper position. 	 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." For a grill equipped with the AUTO-CLEAN™ feature, make sure the AUTO-CLEAN™ valve is set to "Grill" 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). Main Burners: Tip of electrode should be pointing toward gas port opening on burner. The distance should be 1/8" to 1/4". 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/electrode assembly.
	Dead battery.	Replace with a new alkaline battery.

Troubleshooting (continued)

	,	
Problem	Possible Cause	Prevention/Solution
Burner(s) will not light using ignitor.	ELECTRONIC IGNITION: • No spark, no ignition noise.	See Section I of Electronic Ignition System.
(See Electronic Ignition Troubleshooting also)	No spark, some ignition noise.	See Section II of Electronic Ignition System.
	Sparks, but not at electrode or at full strength.	See Section III of Electronic Ignition System.
Burner(s) will not	See "GAS ISSUES:" on previous page.	
match light.	Match will not reach.	Use long-stem match (fireplace match).
	Improper method of match-lighting.	See "Match-Lighting" section of Use and Care.
Sudden drop in gas flow or low flame.	Out of gas.	Check for gas in LP cylinder.
now or low hame.	Excess flow valve tripped.	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.
	Vapor lock at coupling nut/LP cylinder connection.	Turn off knobs and LP cylinder valve. Disconnect coupling nut from cylinder. Reconnect and retry.
Flames blow out.	High or gusting winds.	Turn front of grill to face wind or increase flame height.
	• Low on LP gas.	Refill LP cylinder.
	Excess flow valve tripped.	Refer to "Sudden drop in gas flow" above.
Flare-up.	Grease buildup.	Clean burners and inside of grill/firebox.
	Excessive fat in meat.	Trim fat from meat before grilling.
	Excessive cooking temperature.	Adjust (lower) temperature accordingly.
Persistent grease fire.	Grease trapped by food buildup around burner system.	Turn knobs to OFF. Turn gas off at LP 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.
AUTO-CLEAN™ (If Equipped)	Possible Cause	Prevention/Solution
Timer does not work (Green light does not flash)	 Dead Battery Batteries installed incorrectly. Knob Position did not start the Clean Cycle 	 Replace batteries Install batteries correctly. Push Knob in to start the clean cycle. (Green LED should begin to flash)
No LED's will illuminate	Dead Battery	Replace batteries
Red LED next to battery symbol is illuminated	Low Battery Strength	Prepare to replace batteries (NOTE: Clean cycle will operate with a weak battery.

Troubleshooting - Electronic Ignition

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Problem (Ignition)	Possible Cause	Check Procedure	Prevention/Solution
SECTION I No sparks appear at any electrodes when Electronic Ignition Button is pressed; no noise can		Check battery orientation.	Install battery (make sure that "+" and "-" connectors are oriented correctly, with "+" end up and "-" end down.)
be heard from spark module.	Dead battery.	Has battery been used previously?	Replace battery with new alkaline battery.
	Button assembly not installed properly.	Check to insure threads are properly engaged. Button should travel up and down without binding.	Unscrew button cap assembly and reinstall, making sure threads are aligned and engaged fully.
	Faulty spark module.	If no sparks are generated with new battery and good wire connections, module is faulty.	Replace spark module assembly.
SECTION II No sparks appear at any electrodes when Electronic Ignition Button is pressed; noise can be heard from spark module.	Output lead connections not connected.	Are output connections on and tight?	Remove and reconnect all output connections at module and electrodes.
SECTION III Sparks are present but not at all	Output lead connections not connected.	Are output connections on and tight?	Remove and reconnect all output connections at module and electrodes.
electrodes and/or not at full strength	Arcing to grill away from burner(s).	If possible, observe grill in dark location. Operate ignition system and look for arcing between output wires and grill frame.	If sparks are observed other than from burner(s), wire insulation may be damaged. Replace wires.
	Weak battery.	All sparks present but weak or at slow rate.	Replace battery with a new alkaline battery.
	Electrodes are wet.	Has moisture accumulated on electrode and/or in burner ports?	Use paper towel to remove moisture.
	Electrodes cracked or broken "sparks at crack".	Inspect electrodes for cracks.	Replace cracked or broken electrodes.

NOTES

NOTES



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Date of Pu		Store Name Nombre de la t	ienda Nom du magasin	sales receipt here. Adjunte aqui la cop

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