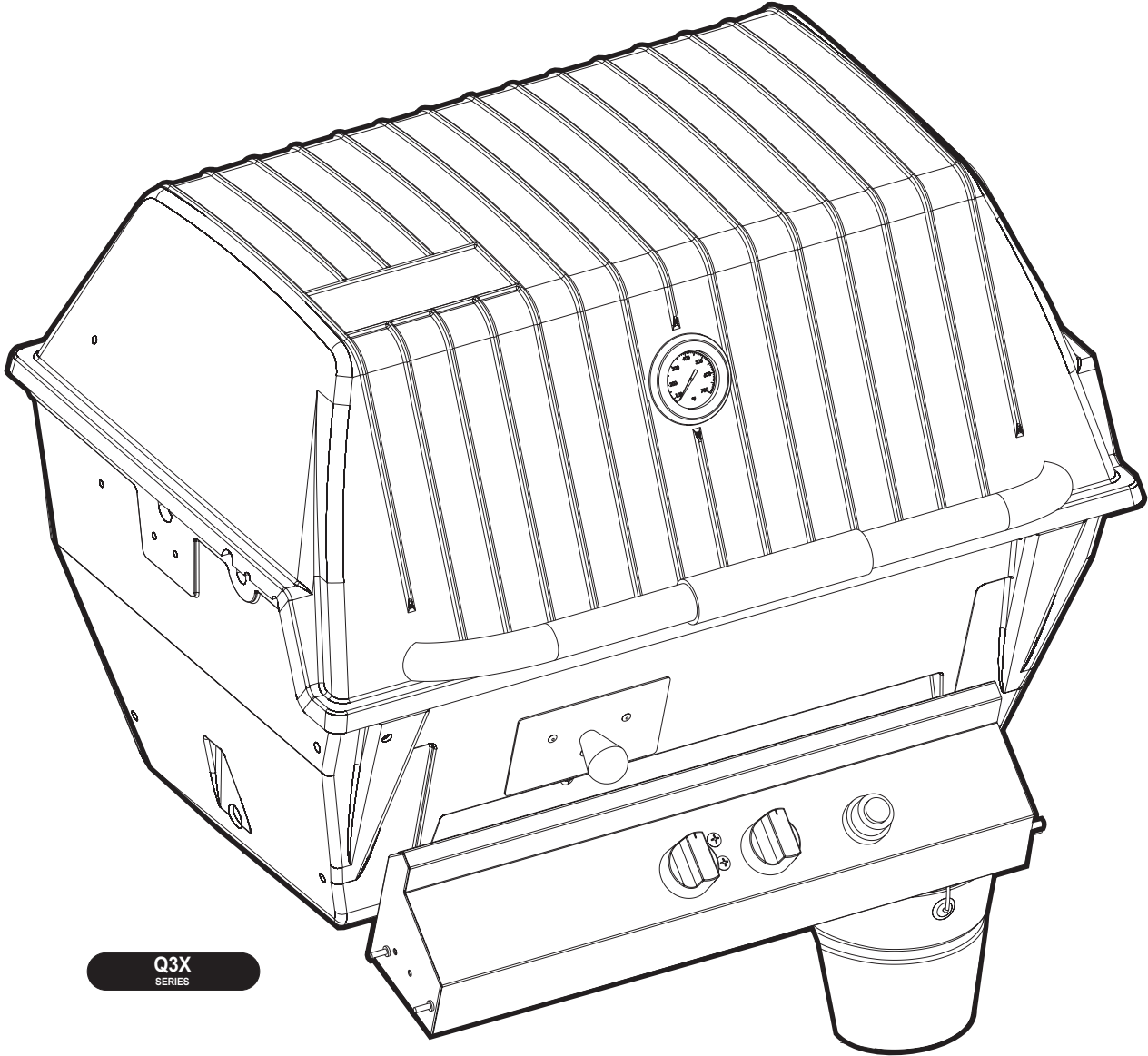


**BROILMASTER®**  
**PREMIUM GRILLS**



**Q3X**  
SERIES

**Q3X(N)-3**  
**Q3X GRILL HEAD**

**GAS-FIRED**  
**UL**  
**C US**  
**LISTED**

# IMPORTANT INFORMATION

## IMPORTANT

This manual should be read thoroughly by the installer and by anyone who will use or maintain the grill.

**Installer -** Write the model number, serial number, and date of installation in the manual. If available, attach a copy of the receipt. Leave this manual with the grill owner.

**Grill Owner -** Read and retain this manual. It contains instructions on using and maintaining your grill, plus information on ordering replacement parts. Attach a copy of your receipt to this manual. Your receipt established the proof of purchase required for warranty replacement parts.

## ⚠ WARNING

Follow the instruction in this manual for proper installation and maintenance of the grill. Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

## ⚠ DANGER: FOR YOUR SAFETY

### IF YOU SMELL GAS:

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

## ⚠ WARNING: FOR YOUR SAFETY

1. Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any appliance.
2. Only the LP tank connected for use shall be placed in the vicinity of this grill.

## ⚠ CAUTION:

Parts may have sharp edges. Wear leather work gloves and handle parts carefully during unpacking, assembly and installation.

## ⚠ WARNING

For LP grills, use propane cylinders equipped with an Overfill Protection Device (OPD). An overfilled or improperly filled propane cylinder can be dangerous.

Thank you for purchasing a Premium Gas Grill.

Broilmaster takes pride in its reputation as the The Most Durable Grill Known to Man.

From its thick aluminum casting to its massive cooking grids, your Broilmaster is built to last. In fact we still make replacement parts for Broilmaster grills built more than 30 years ago.

Visit [www.broilmaster.com](http://www.broilmaster.com) and click on the Hall of Fame to see a sampling of our long-time customers. We hope you enjoy years of great meals prepared on your Broilmaster. And we hope to add your photo to the Hall of Fame one day.

# Thank You!

**BROILMASTER**  
is a registered trademark of

**Empire Comfort Systems, Inc.**  
Belleville, Illinois

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You have chosen the finest grill for your outdoor cooking pleasure.

Please take time to read this entire manual before assembling your Premium Broilmaster gas grill.

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# ASSEMBLY INSTRUCTIONS

## BEFORE YOU BEGIN

This Grill Head requires Broilmaster Mounting (Cart, Post, or a Built-In Kit). See Mounting Instructions to assemble mounting before Assembling Grill Head.

Compare the parts in the box to the parts list provided in this manual. If any are missing, contact your Broilmaster dealer before beginning assembly.

All Broilmaster grills require some assembly. For the best results, follow the step-by-step instructions.

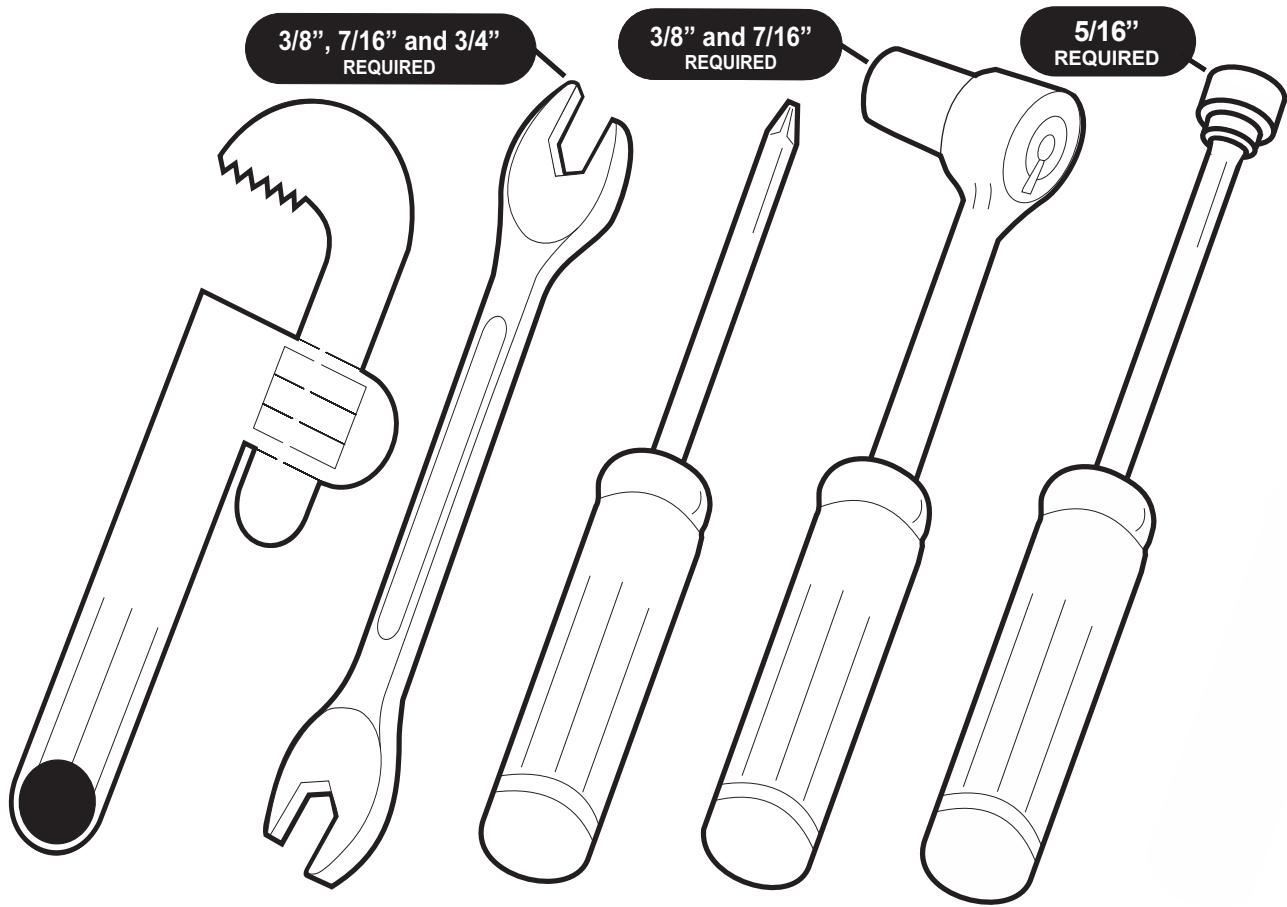
For natural gas grills and for permanently mounted LP grills, have your gas supplier run service to the desired location first.

If you purchased an accessory with your Broilmaster, follow the instructions provided.



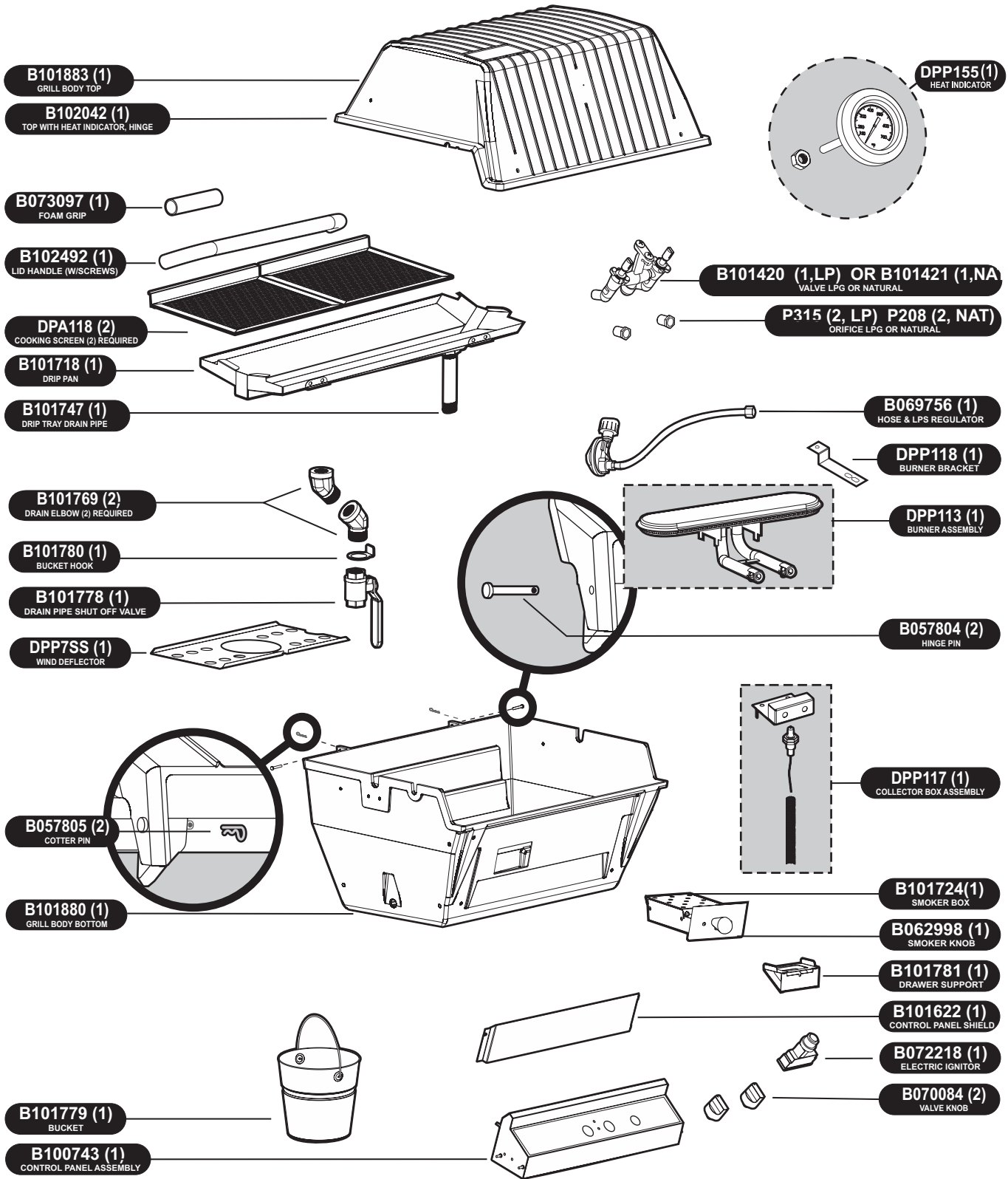
### CAUTION:

Parts may have sharp edges. For your safety wear leather work gloves and handle parts carefully during unpacking and assembly.

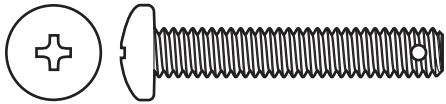


**TOOLS  
REQUIRED**

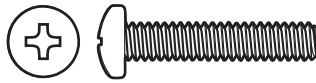
# Q3X SERIES PARTS DIAGRAM



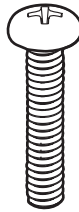
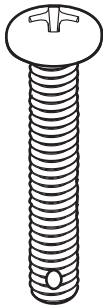
# GRILL HEAD HARDWARE PACK - B102256



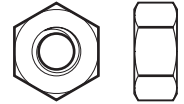
PHILLIPS PAN HEAD SCREW,  
SS, 1/4-20 X 1-1/2  
B101649  
(1)



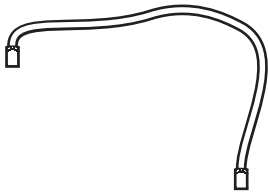
PHILLIPS PAN HEAD SCREW,  
SS, 10-24 X 1  
B073978  
(3)



KEPS NUT,  
SS, 10-24  
B073967  
(3)



HEX NUT,  
SS, 1/4-20  
B076331  
(1)



GROUND  
WIRE  
B072684  
(1)



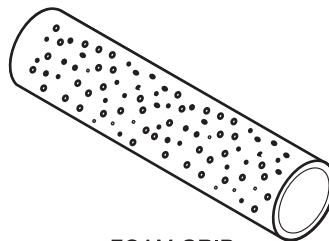
BATTERY, AA  
B076529  
(1)



KNOB  
B070084  
(2)



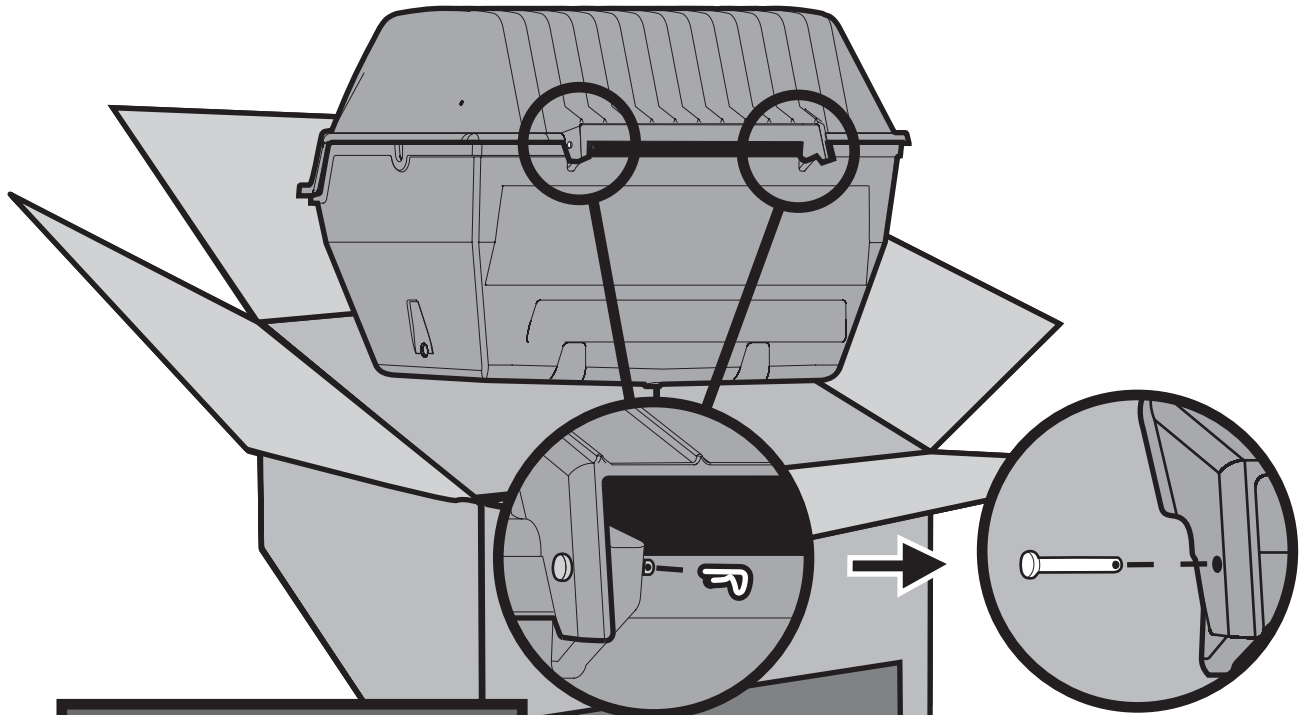
COTTER PIN  
B057805  
(1)



FOAM GRIP  
B073097  
(1)

Standard hardware items such as bolts, screws, washers, and nuts can be purchased at your local hardware store. Do not order individual pieces of standard hardware. A replacement hardware pack may be ordered using the hardware pack part number at the top of the page.

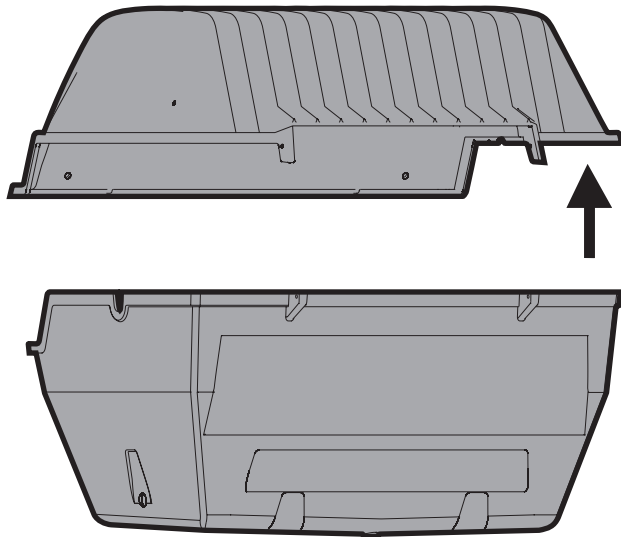
# UNPACK AND REMOVE LID



**REMOVING LID**  
To ease assembly, remove Grill Lid and Warming Rack. Remove Warming Rack and set aside. Remove the two Pins and Clips at the rear of the Grill Lid and set aside. After Pins, Lid and Warming Rack have been removed, remove the contents from inside the Grill.

**BROILMASTER  
PREMIUM GRILLS**

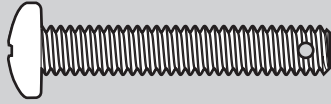
Prior to assembling Grill Head assemble Cart or Post mounting first. Follow Mounting instructions provided with your Broilmaster Cart or Post.



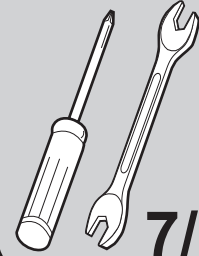


# INSERT BURNER HOLD-DOWN BOLT

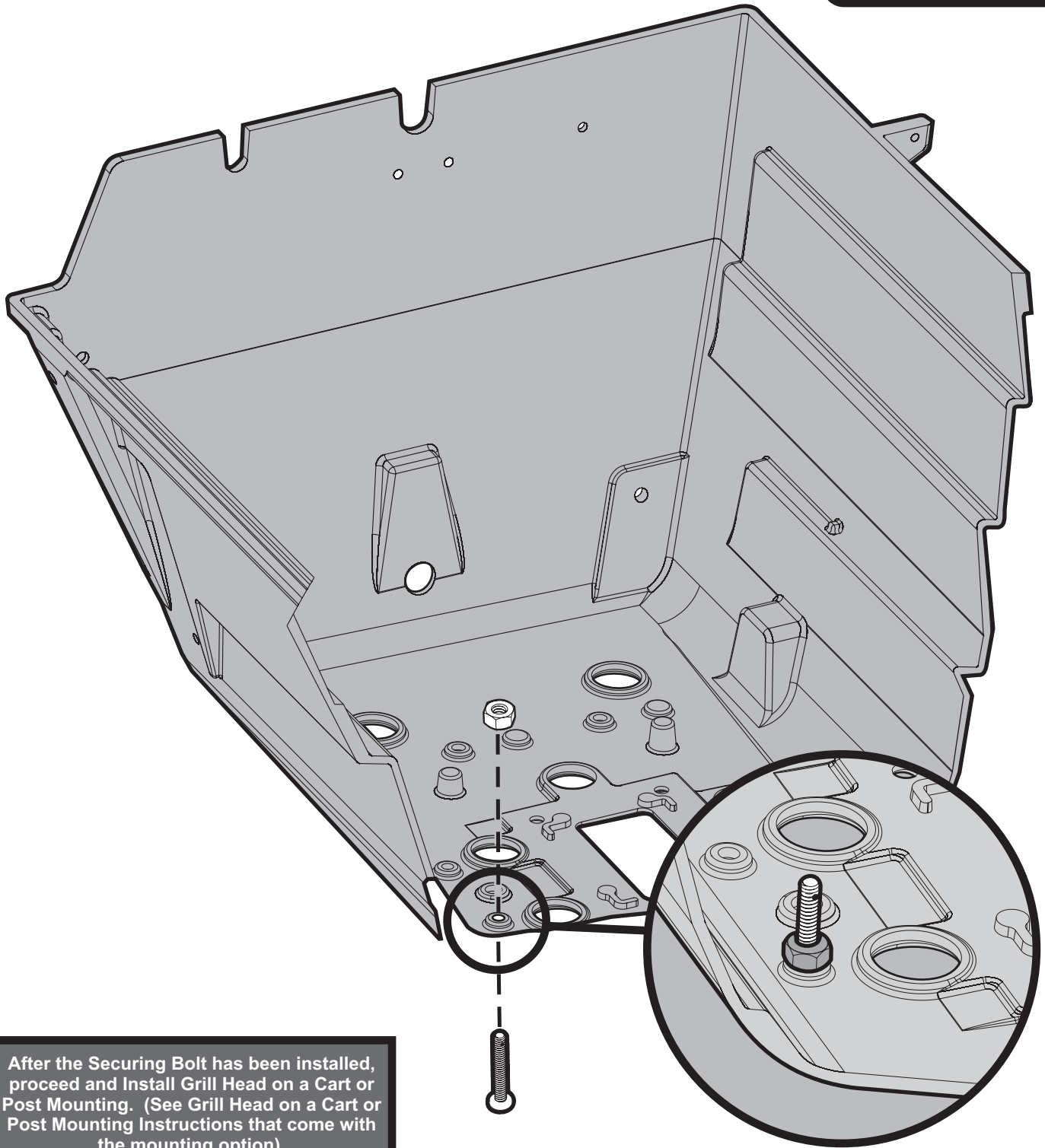
PHILLIPS PAN  
HEAD SCREW  
SS, 1/4-20 X 1-1/2  
B101649 (1)



HEX NUT,  
SS, 1/4-20  
B076331(1)

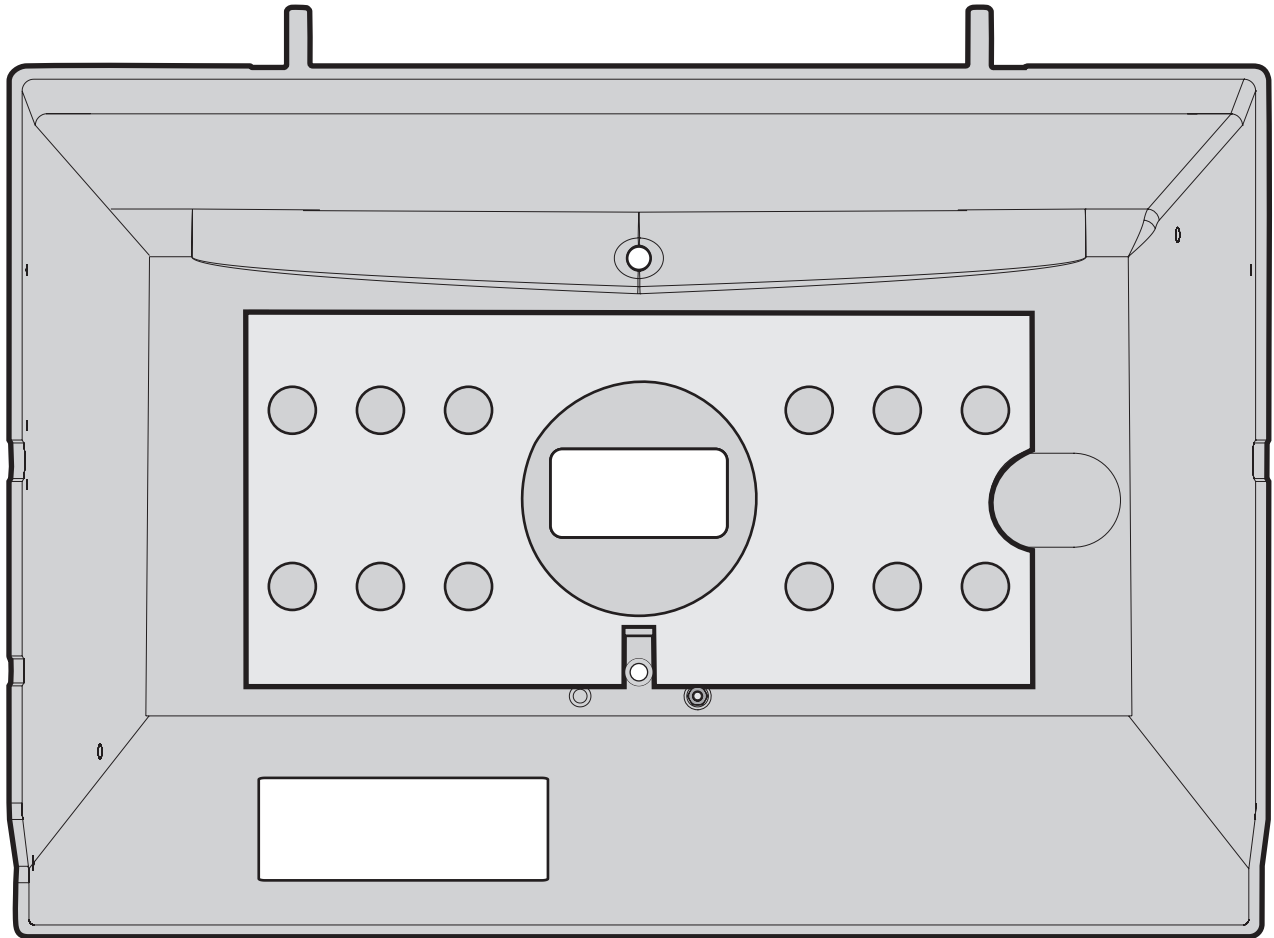


7/16"



After the Securing Bolt has been installed, proceed and Install Grill Head on a Cart or Post Mounting. (See Grill Head on a Cart or Post Mounting Instructions that come with the mounting option).

# WIND DEFLECTOR PLACEMENT

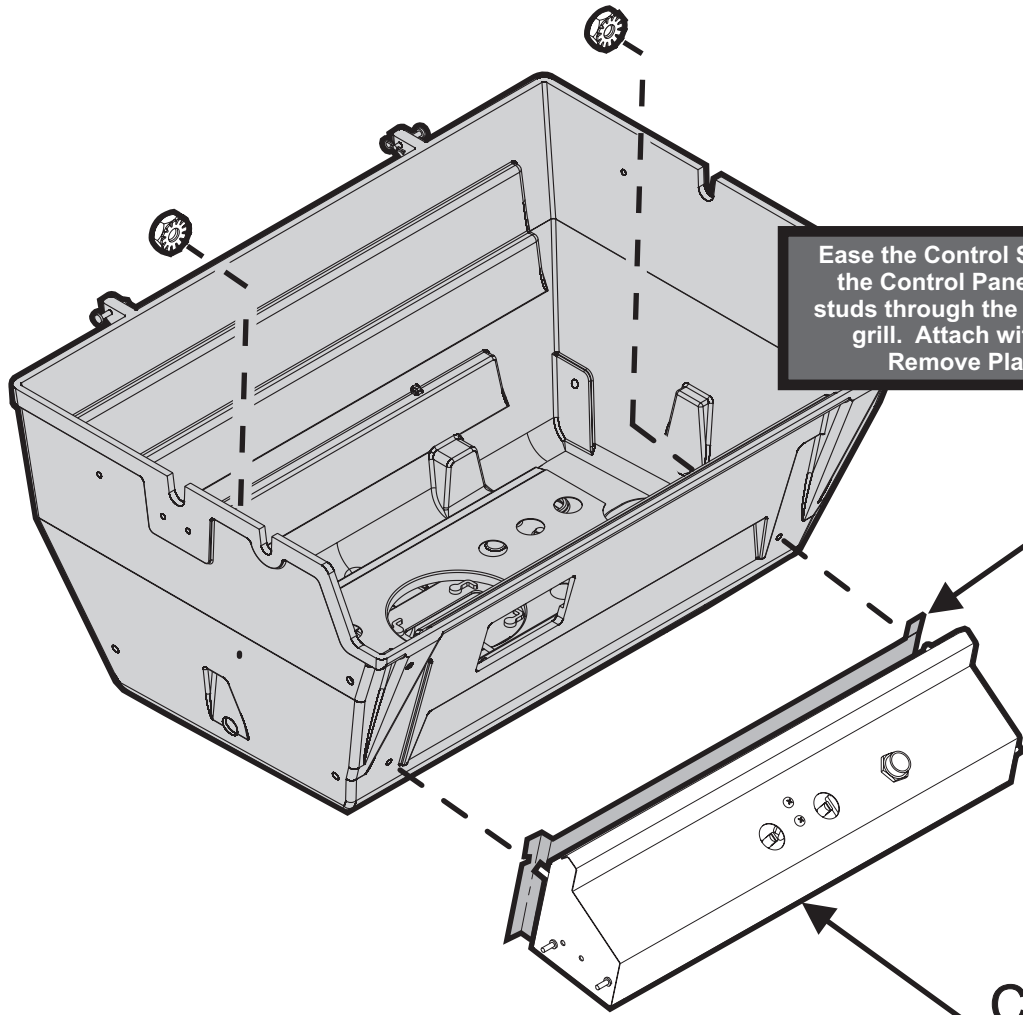
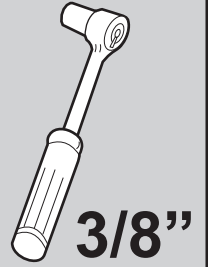


**Place the Wind Deflector in the bottom Casting.**

**The Wind Deflector cannot be installed until after the bottom Casting is installed on the Cart or Post.**

# INSERT CONTROL PANEL

KEPS NUT,  
SS, 10-24  
B073967(2)



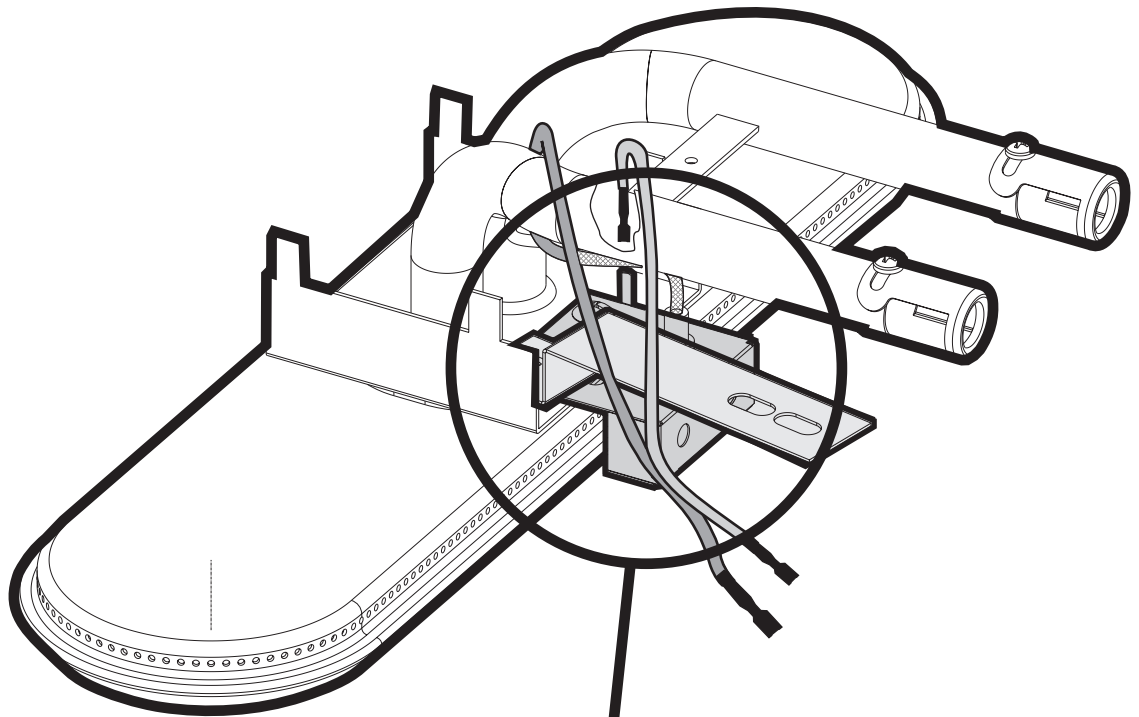
Ease the Control Shield over the studs on the Control Panel. Then insert the two studs through the holes on the front of the grill. Attach with the two keps nuts. Remove Plastic Film on label.

CONTROL  
PANEL  
SHIELD

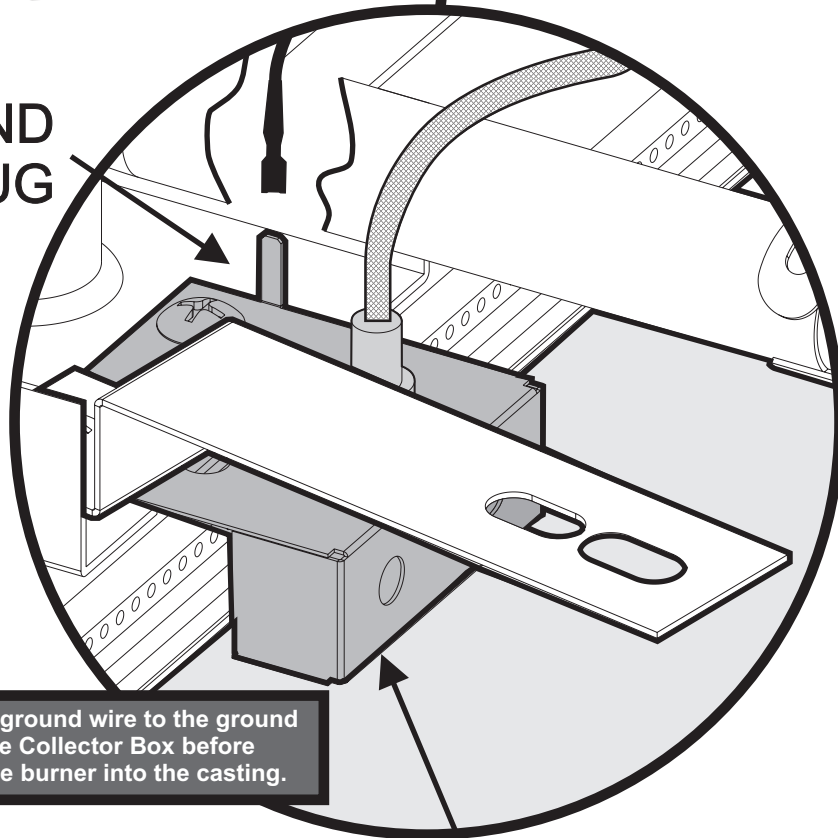
CONTROL  
PANEL

  
Note: If Side Shelf Accessory was purchased install at this time. Follow Side Shelf instructions.

# ATTACH IGNITOR WIRE



GROUND LUG

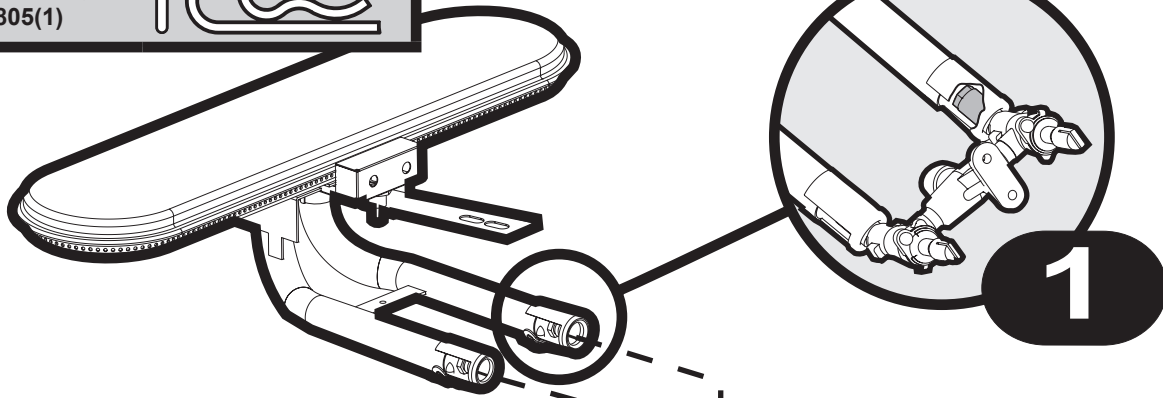


Connect the ground wire to the ground lug on the Collector Box before installing the burner into the casting.

COLLECTOR BOX

# INSTALL BURNER ASSEMBLY

COTTER PIN,  
B057805(1)

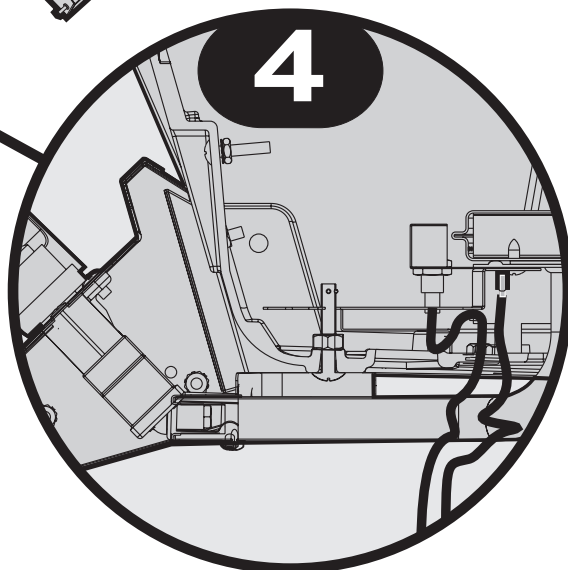
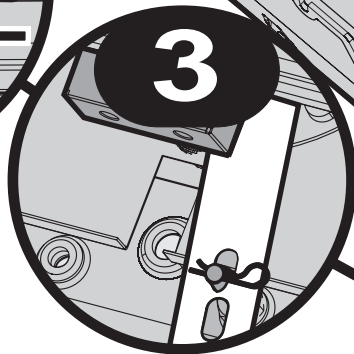
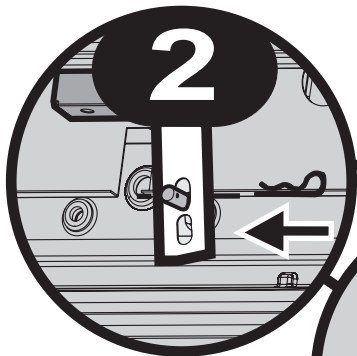


Slide the Venturi on to the Valve Assembly to the left as shown.

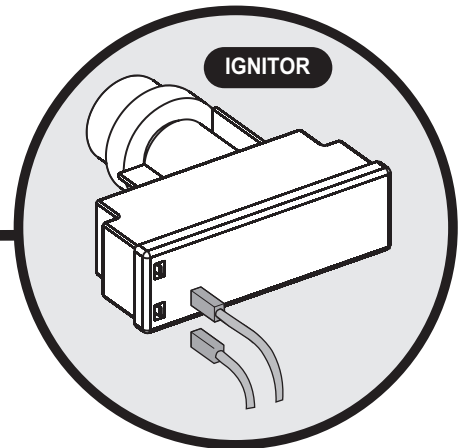
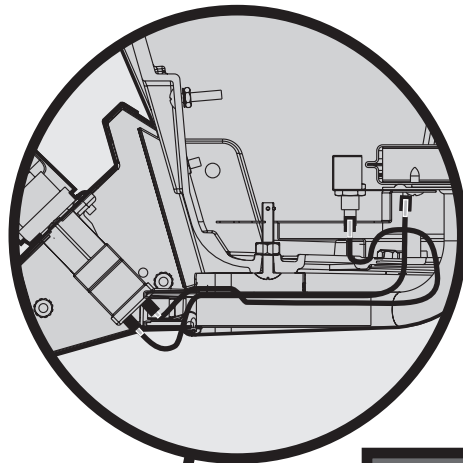
Raise the unsecured end of the Burner Bracket and slip it over the Phillips Truss Head Screw. The screw will fit into the hole on the Burner Bracket. Insert Cotter Pin.

Note: Ignitor Wires run through center hole with Venturi.

Insert the Burner Assembly into the Grill bottom with the Venturi Tubes facing the front of the Grill.



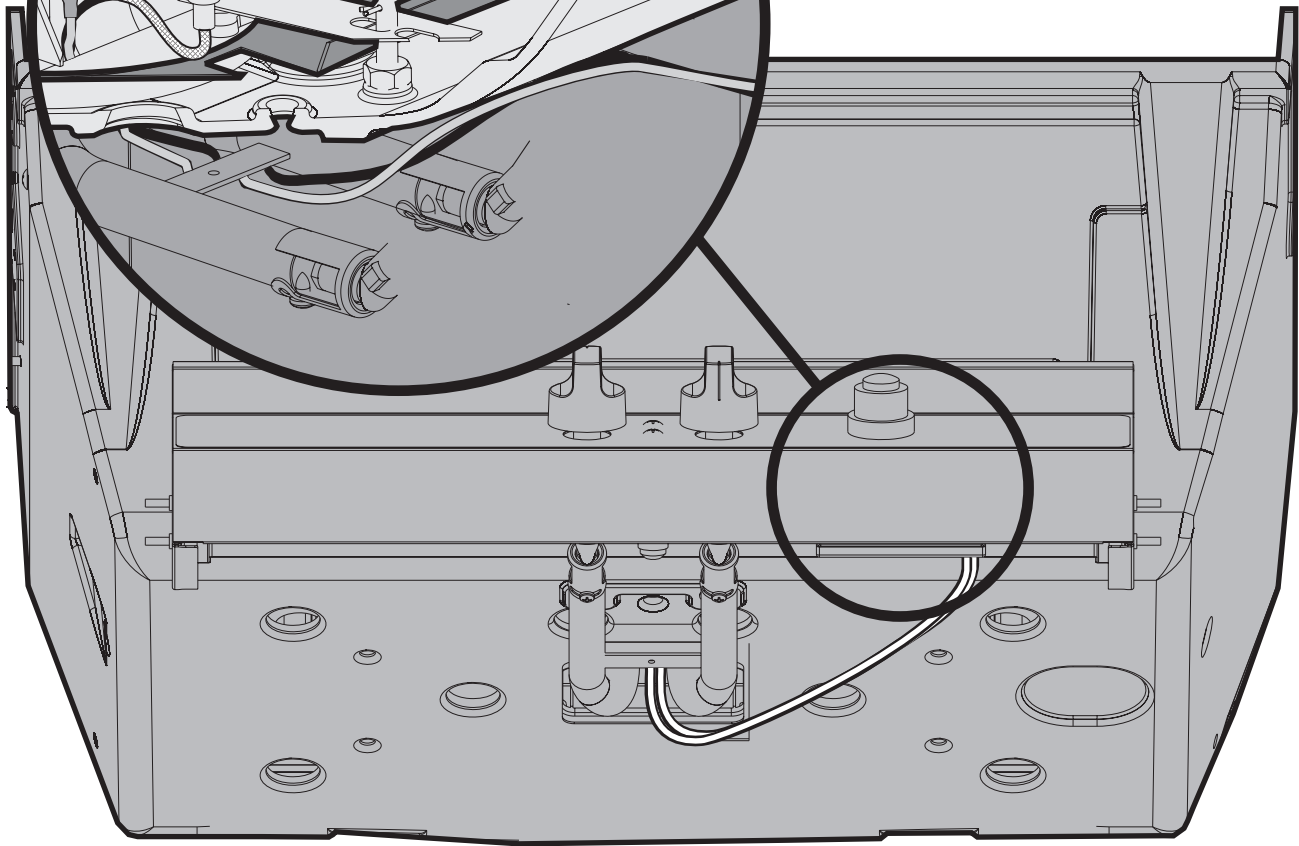
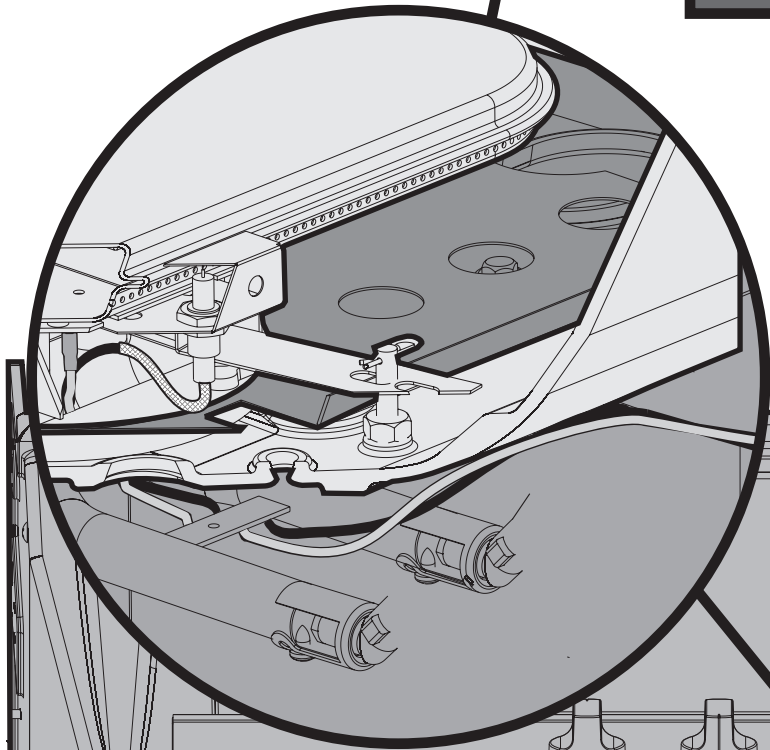
# CONNECT IGNITOR LEADS



Route Leads from Burner and Secure to Ignitor Terminals (polarity is not important).

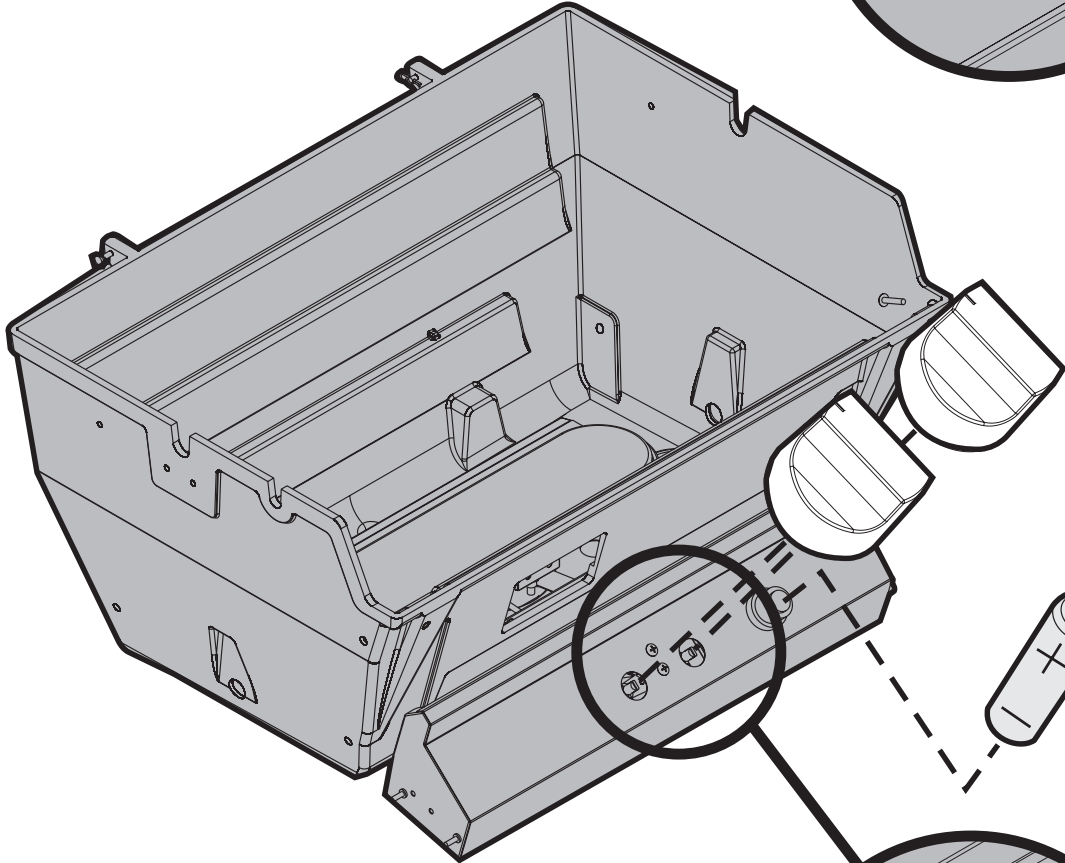
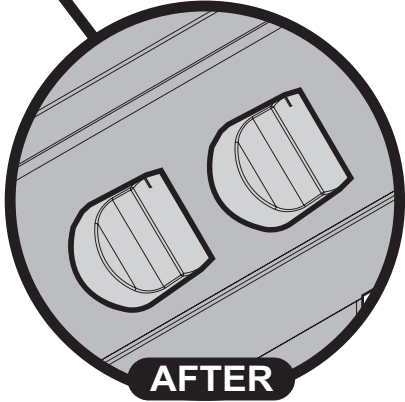
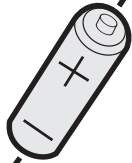
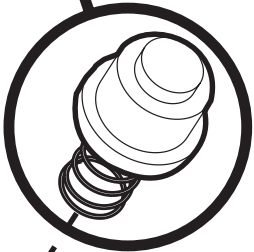
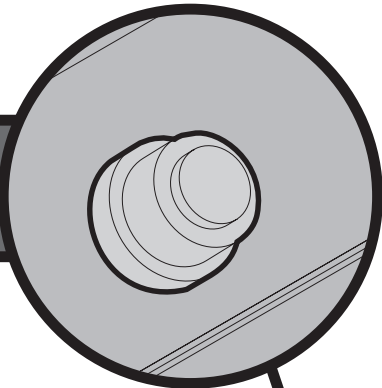


The Ignitor terminals do not have a polarity.



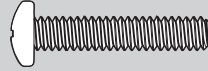
# KNOB AND BATTERY PLACEMENT

Unscrew the Ignitor Knob from the Control Panel, and insert AA Battery, positive side up, and replace Ignitor Button.

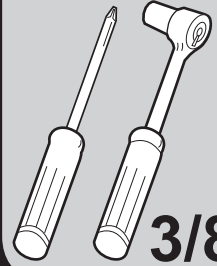


# INSTALL SMOKER DRAWER

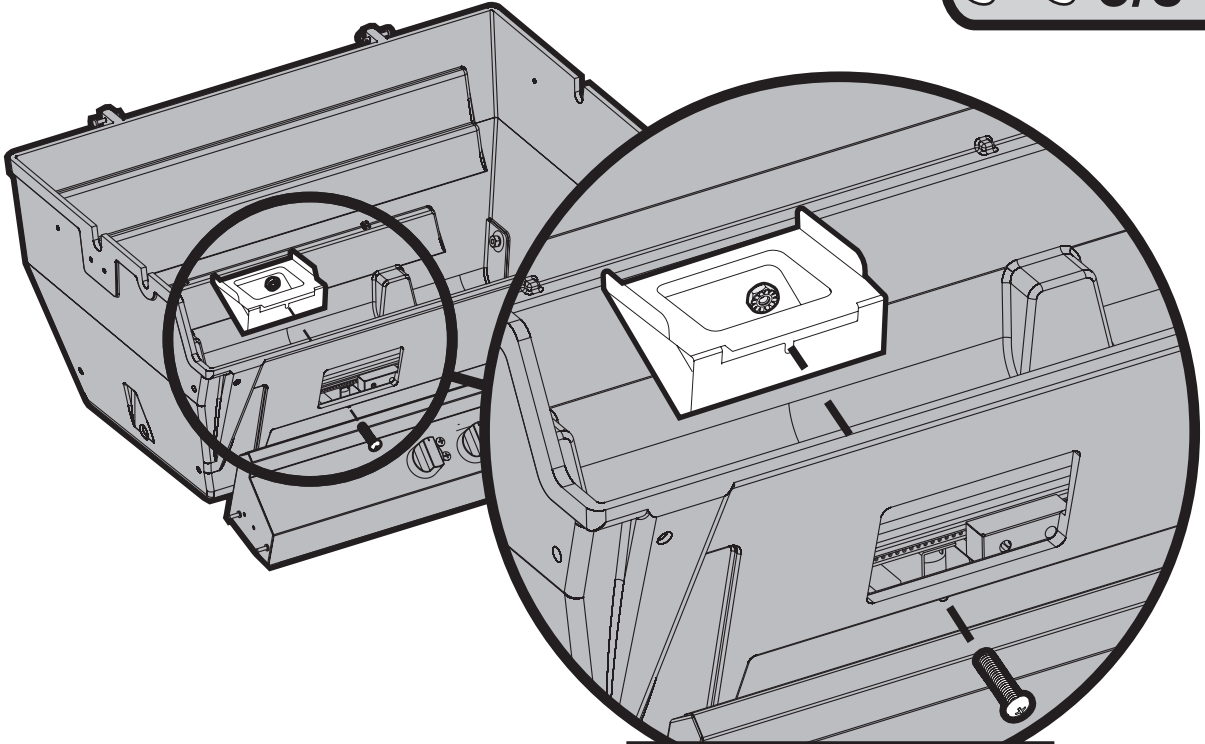
PHILLIPS PAN HEAD SCREW,  
SS, 10-24 X 1  
B073978 (1)



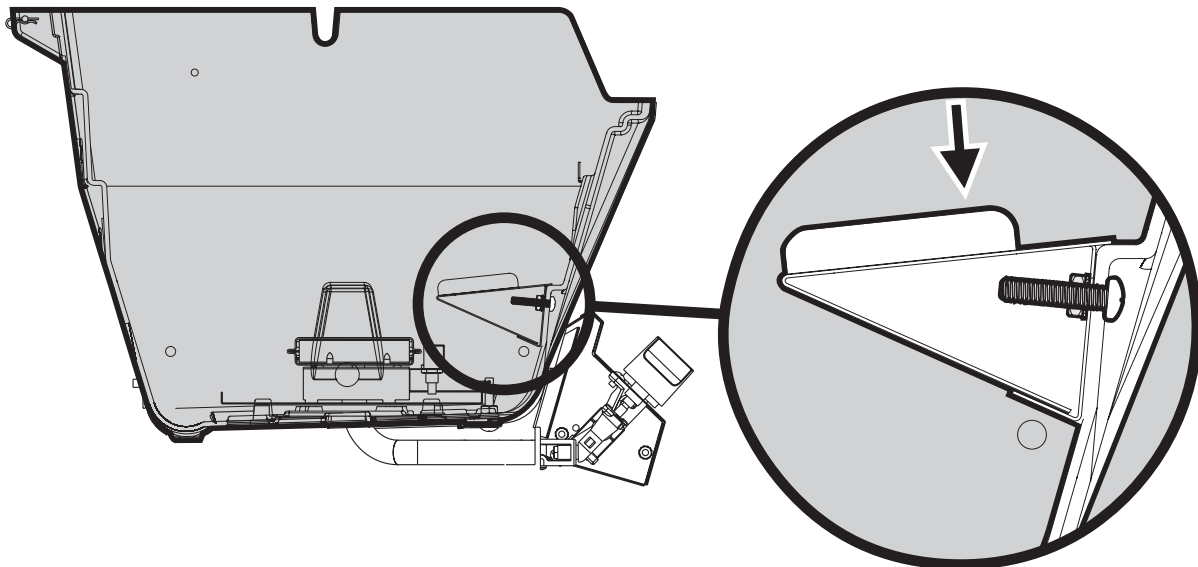
KEPS NUT,  
SS, 10-24  
B073967(1)



3/8"

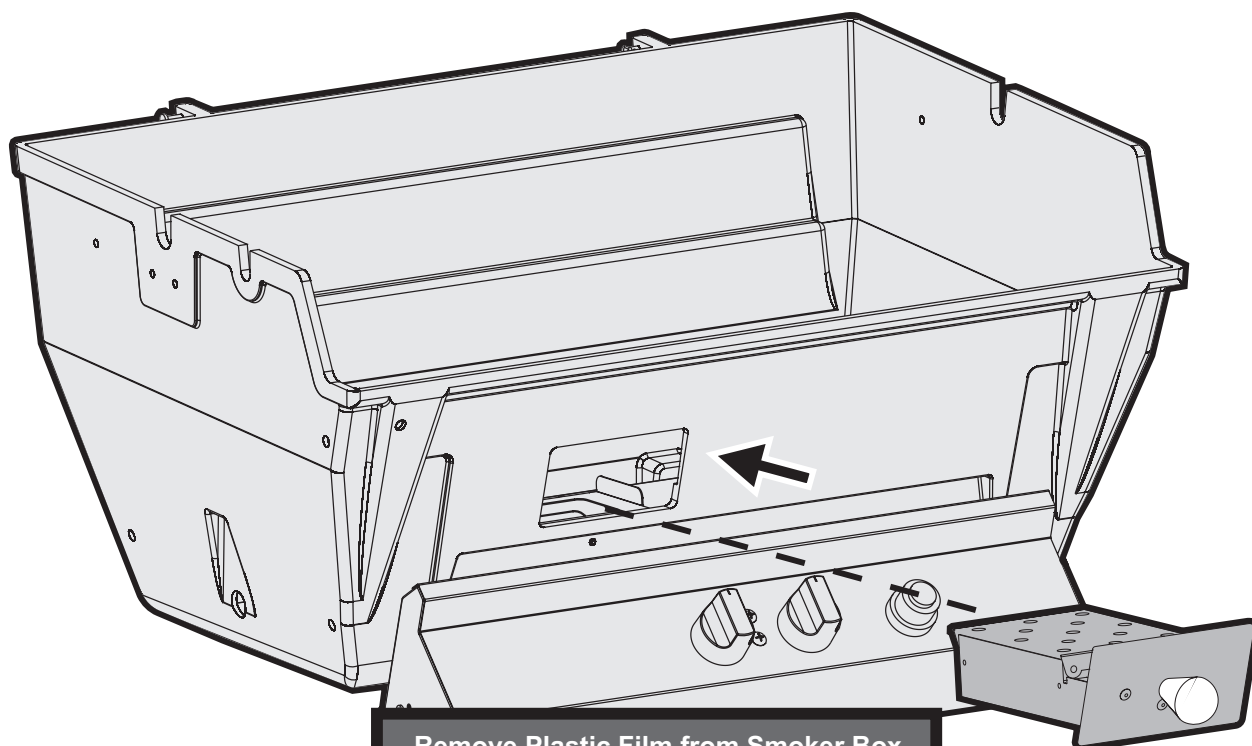


Smoker Drawer  
Attach Drawer Support Bracket  
to inside front of Grill Body.



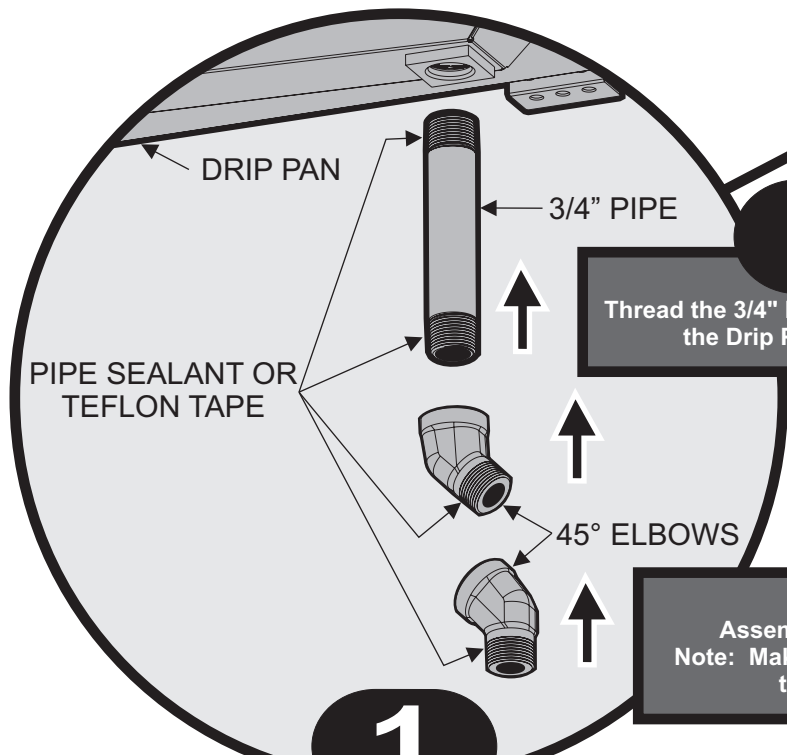
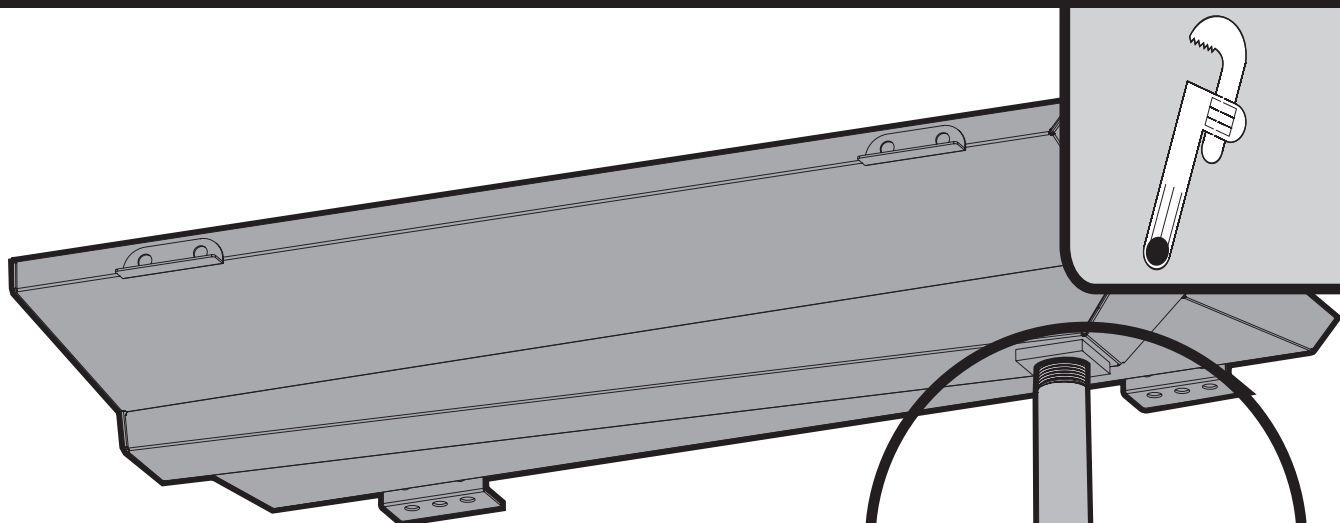


# INSTALL SMOKER DRAWER



Remove Plastic Film from Smoker Box.  
Slide the Smoker Box through the  
opening in the Grill Body.

# ASSEMBLE DRIP PAN



**2**

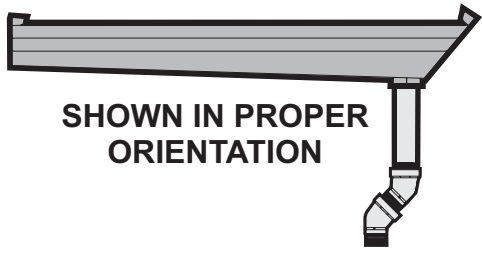
Thread the 3/4" Pipe into the bottom of the Drip Pan and tighten.

**3**

Assemble the two 45° Elbows.  
Note: Make sure the fittings are set to the proper position.

**1**

Note: Pipe and Valve components are packed inside the Smoker Box. Lightly spread Pipe Sealant on all threads before assembling to the Drip Pan.



SHOWN IN PROPER ORIENTATION

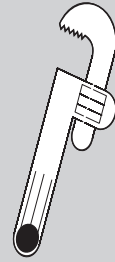
FOR USE ON PSCB CART



SHOWN IN PROPER ORIENTATION

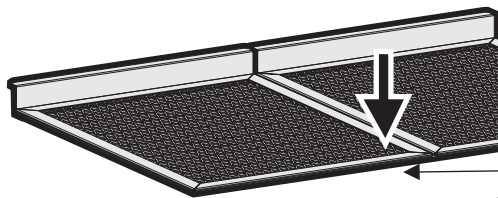
FOR USE ON ALL POSTS AND DCB AND PCB CART

# INSTALL COOKING GRID AND BUCKET



**3**

Set Cooking Grids in place.  
Note: The Cooking Grids allow two cooking levels.

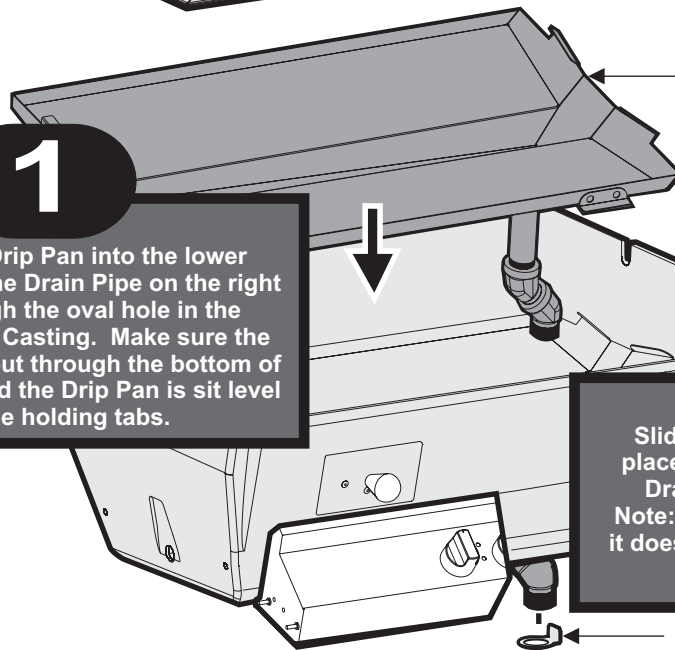


← COOKING GRIDS

← DRIP PAN

**1**

Lower the Drip Pan into the lower Casting with the Drain Pipe on the right side through the oval hole in the bottom of the Casting. Make sure the Pipe extends out through the bottom of the Casting and the Drip Pan is sit level on the holding tabs.



**2**

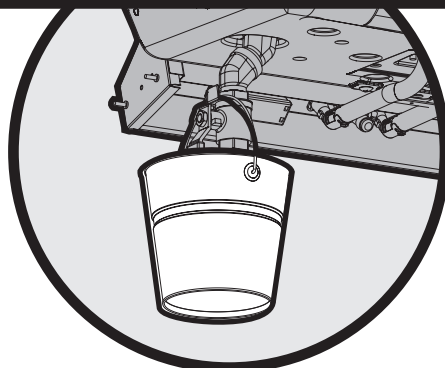
Slide the Drain Bucket Hanger into place over the pipe and screw on the Drain Shut Off Valve and tighten.  
Note: Position Drain Shut Off Valve so it does not interfere with the wall of the Grill Head.

← DRAIN BUCKET HANGER

← DRAIN SHUT OFF VALVE

**4**

Hang the Drain Bucket on the Drain Bucket Hanger.

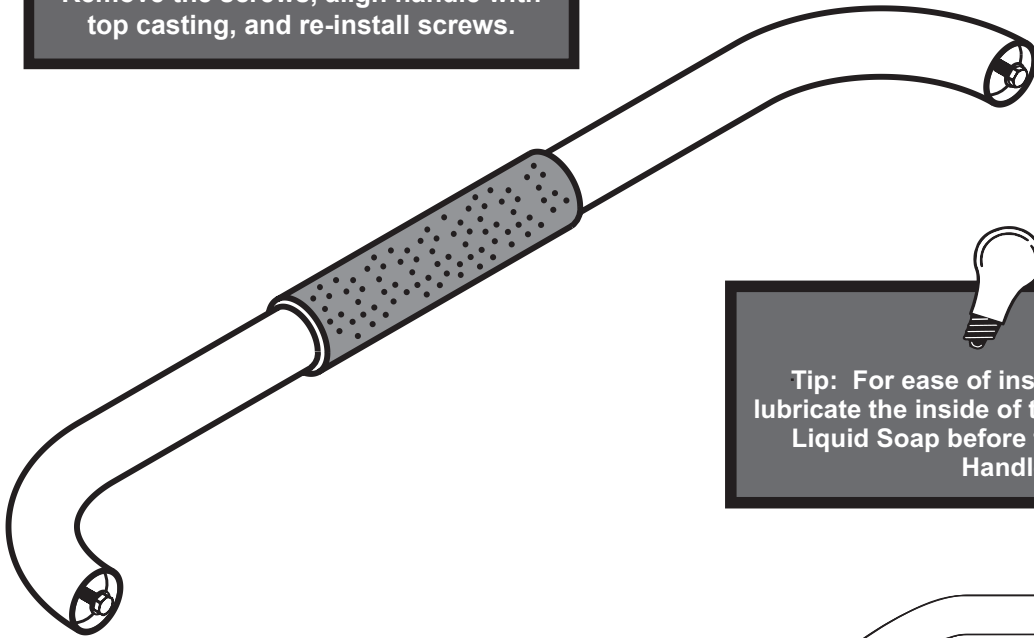
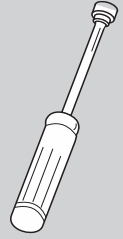


← DRAIN BUCKET

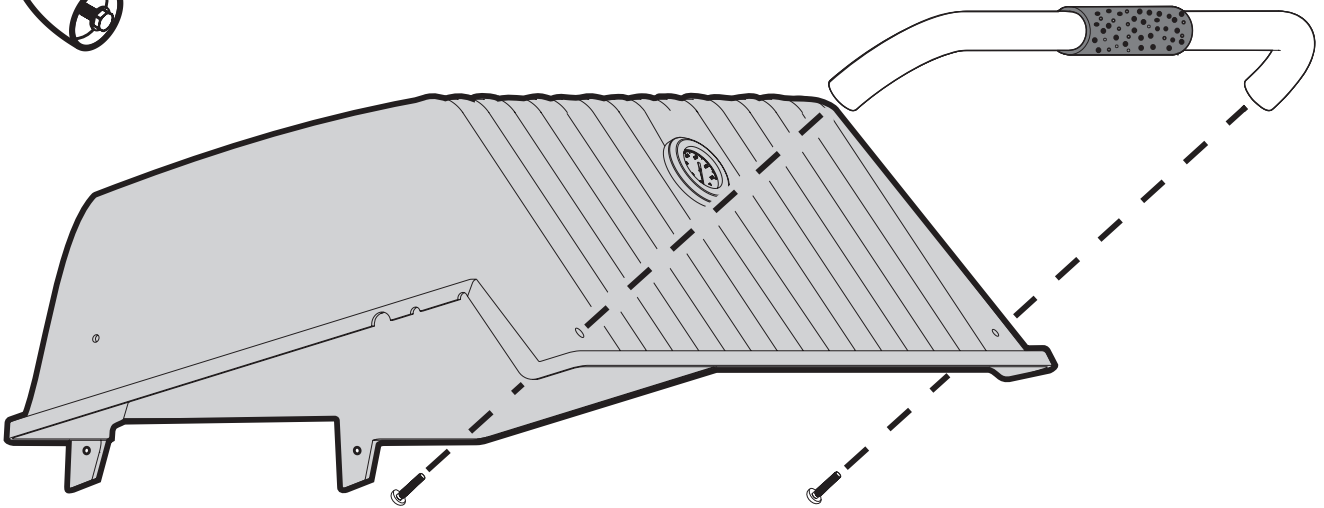
Close the valve if you will cook with liquid.

# INSTALL HANDLE

Handle is shipped with screws installed. Remove the screws, align handle with top casting, and re-install screws.



**Tip:** For ease of installation, lightly lubricate the inside of the Foam Grip with Liquid Soap before twisting it on to Handle.

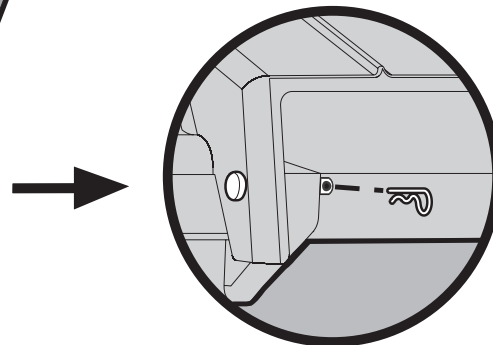
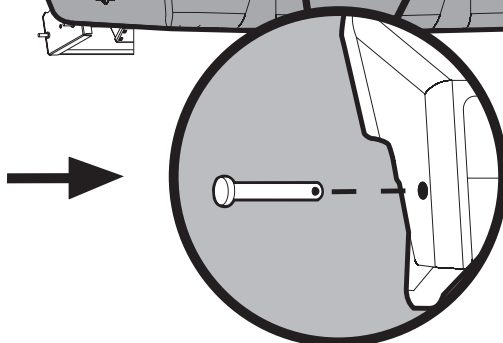
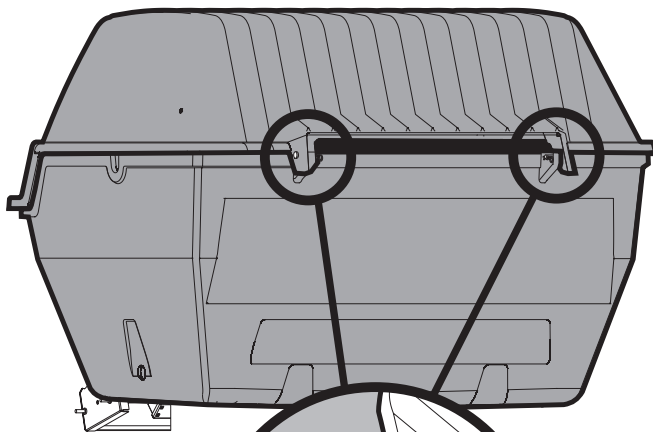
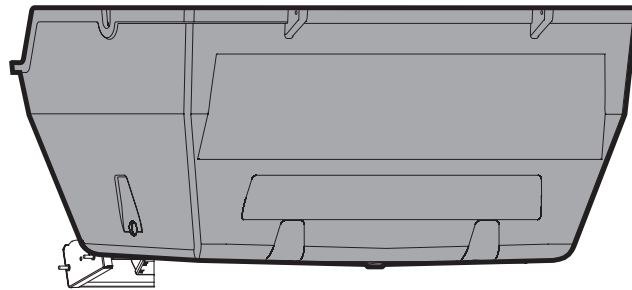
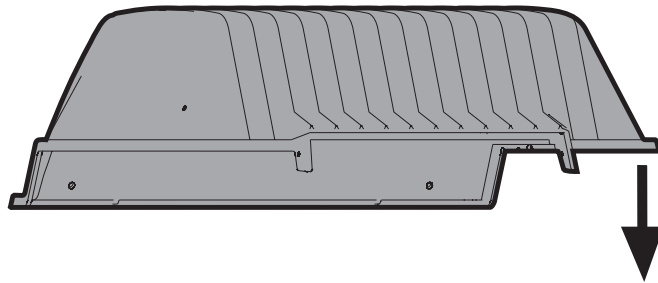


# REINSTALL LID

HINGE PIN,  
(FROM PREVIOUS STEPS)  
B057804 (1)



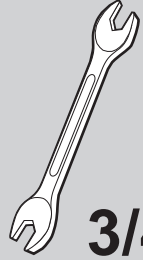
COTTER PIN,  
(FROM PREVIOUS STEPS)  
B057805 (1)



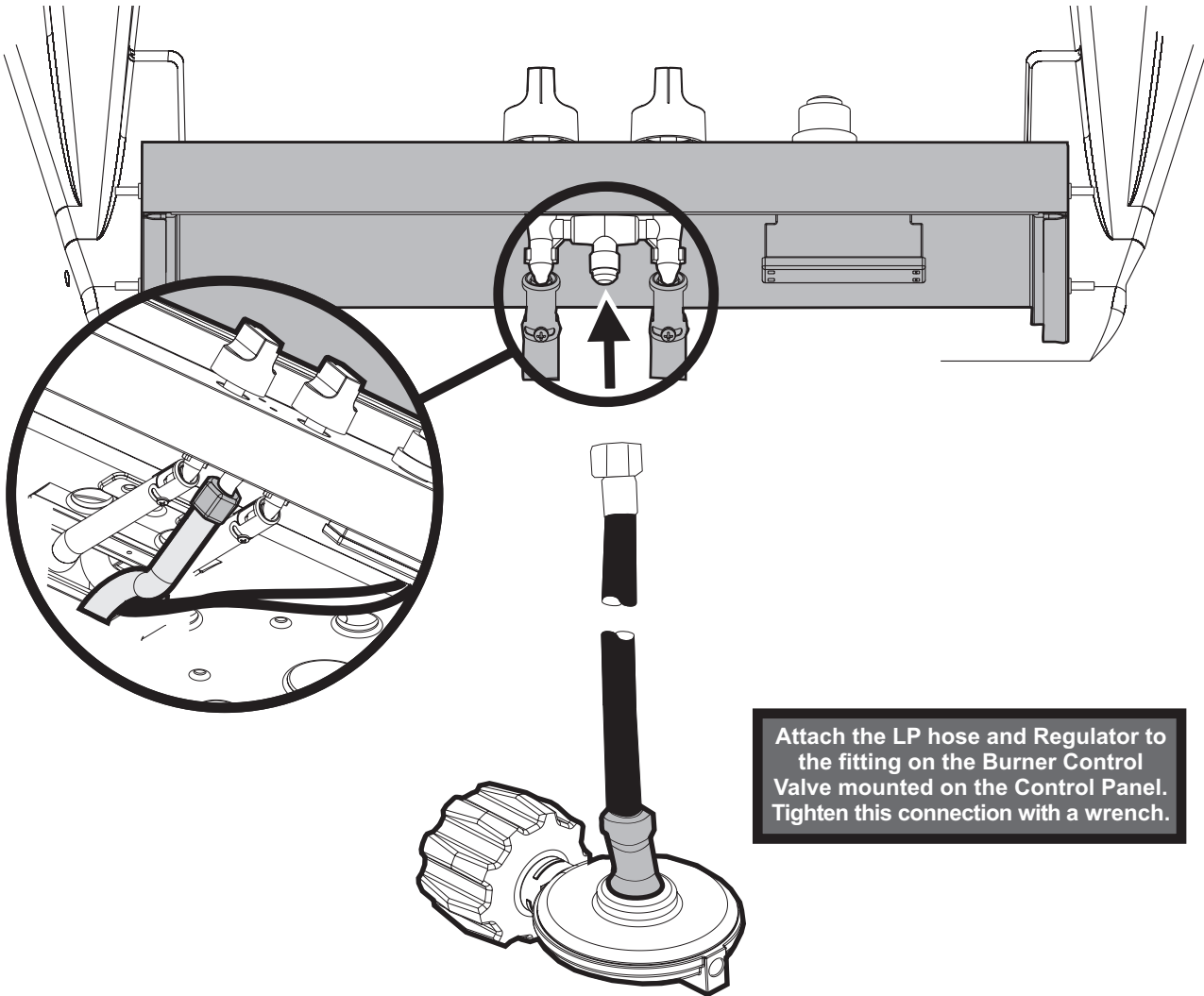
# PROPANE GAS GRILLS



For Natural Gas Grills please proceed to page 26.



3/4"



Attach the LP hose and Regulator to the fitting on the Burner Control Valve mounted on the Control Panel. Tighten this connection with a wrench.

## LP GAS REGULATOR AND HOSE

# PROPANE GAS GRILLS

## Grill Location

This grill is designed for outdoor use only.

Never operate your grill in any building, garage, or other enclosed area. Never operate your grill in a recreational vehicle or boat. Never operate your grill under any combustible materials, such as carports, covered porches, awnings, or overhangs.

### CAUTION

**Keep the sides of the grill at least 16 inches from any combustible material. Keep the back of the grill at least 18 inches from any combustible material. Placing a hot grill too close to a building or other combustible material may lead to fire, property damage, or personal injury. Combustible materials include fences, patio furniture, and your home.**

Keep the area around the grill clear to ensure proper ventilation. The ventilation openings on the propane cylinder enclosure must also remain free and clear of debris.

Before lighting the grill, position it on a level surface away from direct wind.

Never move a hot grill.

### WARNING

**Do not install or operate this grill where gasoline or other flammable materials are used or stored. Failure to comply with this warning could result in explosion or fire causing property damage or personal injury.**

## Propane Cylinder Safety

Propane vapor fuels your grill. Propane is a liquid only when it is highly compressed. Keeping it compressed requires a heavy-duty tank - the LP cylinder.

Inside a full cylinder, the liquid propane makes up the bottom 80 percent; while propane vapor makes up the top 20 percent. As you draw this vapor from the top of the tank, the liquid below expands and turns to vapor. Once all of the liquid turns to vapor, pressure inside the cylinder drops and gas flow stops.

Liquid Propane (LP) gas has a long history of safe use when the safety precautions provided in this manual are followed.

**Failure to follow these safety precautions could result in a fire or explosion causing property damage or personal injury.**

Use extreme caution when handling propane gas cylinders.

Keep the cylinder upright while carrying.

While transporting in a vehicle, keep the cylinder upright and secured to prevent movement. Never place a propane gas cylinder in the passenger area of a vehicle.

Replace any cylinder that has been dropped, dented, has a malfunctioning valve, or is visibly damaged. Never attempt to use or repair a damaged propane gas cylinder.

When refilling your cylinder, always insist on a reputable, qualified gas dealer. Your propane gas cylinder is filled by weight, and should never exceed eighty percent (80%) of its weight limit. If the cylinder is not completely empty, the gas dealer must make adjustments to ensure it is not overfilled. Never use an overfilled Propane gas cylinder.

When you finish grilling, turn off the grill's burners and turn off the gas at the cylinder. If the grill will not be used for an extend period, remove the cylinder from the grill for storage.

## Cylinder Storage

Store your grill outdoors in a well-ventilated area when the LP cylinder is attached to it.

Store Propane cylinders in a secured upright position.

Keep children away from LP cylinders.

Store cylinders out of direct sunlight and well away from heat sources. Do not store cylinders in a building, garage, or other enclosed area.

Disconnected cylinders must have a threaded valve plug tightly installed.

Do not store flammable materials near LP cylinders - including gasoline, paper, grill covers, etc.

# PROPANE GAS GRILLS

## Propane Cylinder Requirements

Your Broilmaster Premium Gas Grill requires a standard 20-lb propane gas cylinder, which is available from your grill dealer, your LP supplier, and at most hardware and home stores.

### ⚠ CAUTION

**Do not use a propane gas cylinder which has a capacity greater than twenty pounds with this grill.**

The propane gas cylinder used must be:

1. Constructed and marked in accordance with the specifications for LP gas cylinder of the U.S. Department of Transportation (D.O.T.) or the National Standard of Canada, CAN/CSA-B339, Cylinders, Spheres, and Tubes for Transportation of Dangerous Goods, and Commission as applicable.
2. Provided with a listed overfilling protection device (OPD).
3. Provided with a listed safety device having direct access with the vapor space of the cylinder and the cylinder supply system must be arranged for vapor removal. (Which means the valve assembly is located at top of the LP cylinder and the cylinder must remain upright for the propane to come out of the valve as vapor.)
4. Provided with a shutoff valve terminating in a valve outlet as specified in the Standard for Compressed Gas Cylinder Outlet and Inlet Connections, ANSICGA-V-1.
5. Provided with a plug to effectively seal off the cylinder outlet when the cylinder is being stored or transported.
6. Provided with a collar to protect the cylinder valve.

## Connection Requirements

Installation must conform to local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1. In Canada, installation shall be in accordance with CAN/CGA-B149.2 Propane Installation Code, or CAN/CGA-B149.1 Natural Gas Installation Code, and local codes where applicable. Consult your local gas supplier or propane gas dealer for code regulations and recommended procedures.

### ⚠ WARNING

**Use Propane gas cylinders equipped with an Overfill Protection Device (OPD). An overfilled or improperly filled propane cylinder can cause a fire or explosion.**

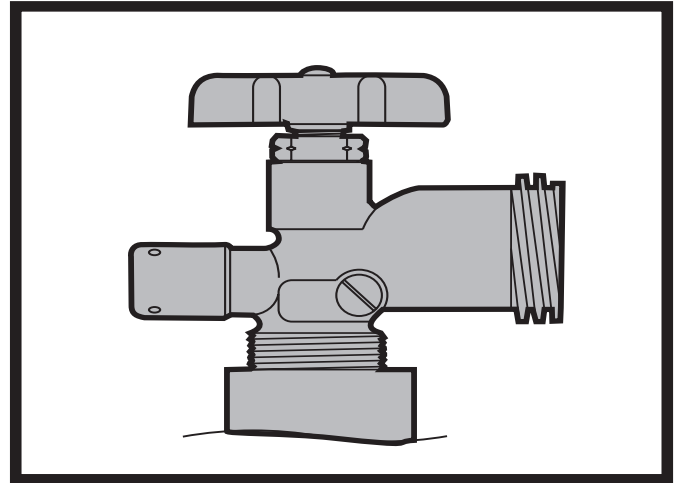
### ⚠ CAUTION

**Never use Liquid Propane (LP) gas in a grill designed for Natural gas, or use Natural gas in a grill designed for Liquid Propane gas. Questions regarding different types of gases should be directed to your local gas supplier.**

**ATTENTION:** Propane gas cylinders must comply with Cylinder Requirements and Connection Requirements above.

**Note:** Not all valve and cylinder combinations are compatible. Check warning tag on valve and cylinder as well as external fitting threads.

All Broilmaster pressure regulators and hose assemblies require Propane cylinders with a Type 1 connection device as illustrated. **See Figure Below.**



**TYPE 1 LP CONNECTION**

Inspect the threaded outlet on the tank and the threaded inlet on the grill's pressure regulator for dirt, nicks, or corrosion that might interfere with a gas-tight connection. If the tank outlet shows damage, return the tank to the supplier for a replacement. If the grill's pressure regulator shows nicks or other damage, contact your dealer for genuine Broilmaster replacement parts.

## Pressure Regulator and Hose Assembly

The pressure regulator has an outlet pressure of not more than eleven inches water column. It must be connected to the Propane gas cylinder's female valve outlet before the grill can be operated.

### ⚠ CAUTION

**Operating a Propane gas grill without the pressure regulator and hose assembly will cause gas leaks which could lead to fire or explosion, resulting in property damage or personal injury.**

Inspect the threaded outlet on the tank and the threaded inlet on the grill's pressure regulator for dirt, nicks, or corrosion that might interfere with a gas-tight connection. If the tank outlet shows damage, return the tank to the supplier for a replacement. If the grill's pressure regulator shows nicks or other damage, contact your dealer for genuine Broilmaster replacement parts.



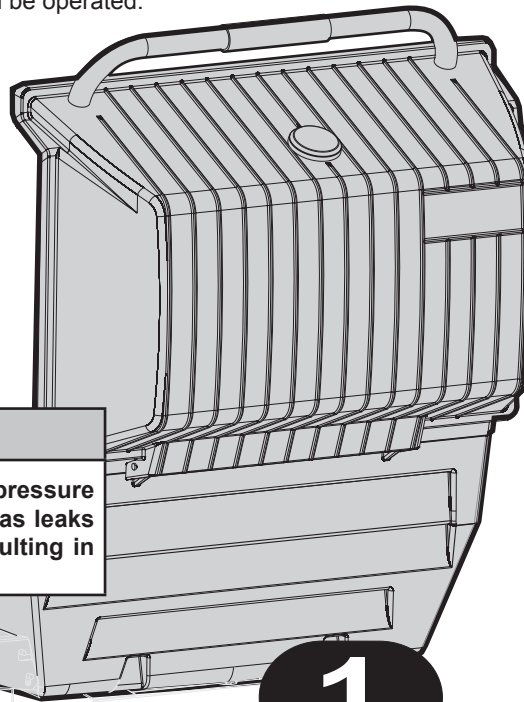
# CONNECTING PROPANE GAS GRILL

## Pressure Regulator and Hose Assembly

The pressure regulator has an outlet pressure of not more than eleven inches water column. It must be connected to the Propane gas cylinder's female valve outlet before the grill can be operated.

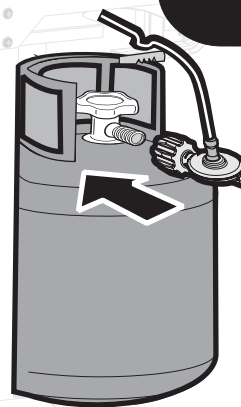


Make sure the grill's burner controls are off. Open the valve on the top of the LP cylinder, while listening for leaks. If you hear a leak or smell gas, turn off the valve and retighten the connection. If the problem persists contact your Broilmaster dealer.



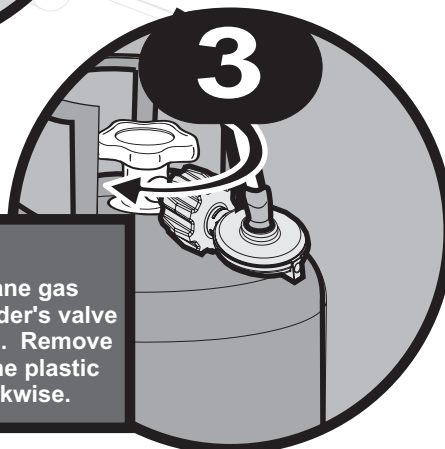
### ⚠ WARNING

Operating a Propane gas grill without the pressure regulator and hose assembly will cause gas leaks which could lead to fire or explosion, resulting in property damage or personal injury.



Tank must be secured and installed properly before you attach to Regulator.

Inspect the threaded outlet on the tank and the threaded inlet on the grill's pressure regulator for dirt, nicks, or corrosion that might interfere with a gas-tight connection. If the tank outlet shows damage, return the tank to the supplier for a replacement. If the grill's pressure regulator shows nicks or other damage, contact your dealer for genuine Broilmaster replacement parts.



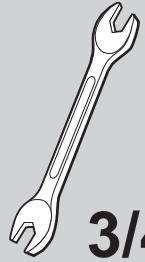
To disconnect the Propane gas cylinder, turn OFF the cylinder's valve and the grill's control valve. Remove the regulator by turning the plastic handwheel counterclockwise.



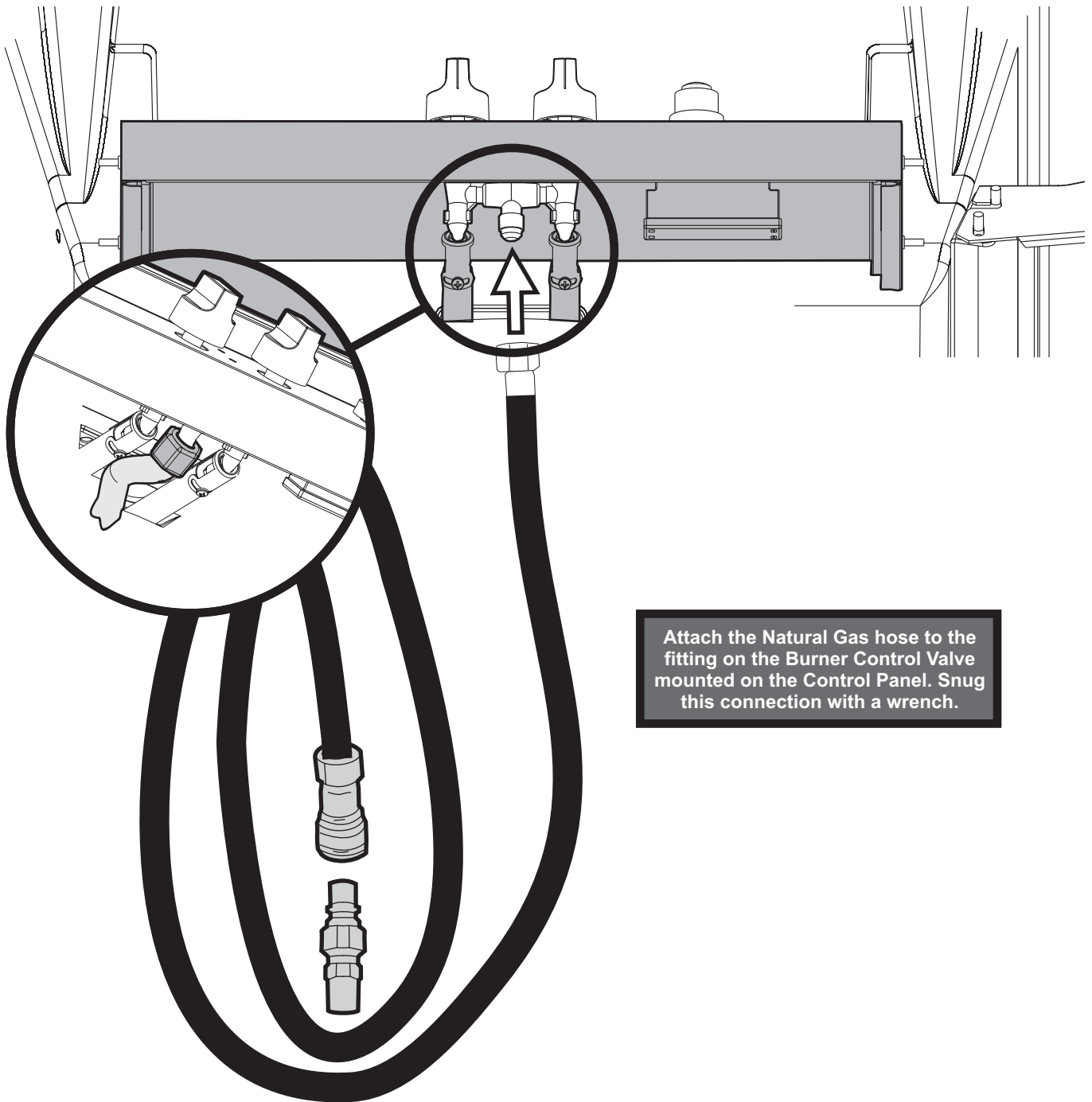
Ensure that hose does not touch the grill or rub any mounting components. (Rotating the LP cylinder slightly will usually change the position of the hose.)

Caution: Do not use a wrench or any other tool to tighten. A wrench or other tool will damage the plastic handwheel.

# CONNECTING NATURAL GAS GRILL



3/4"



Attach the Natural Gas hose to the fitting on the Burner Control Valve mounted on the Control Panel. Snug this connection with a wrench.

**12 FT QUICK DISCONNECT HOSE**  
Not Supplied (Purchased Accessory, NG12)

# NATURAL GAS GRILLS

## Grill Location

This grill is designed for outdoor use only.

Never operate your grill in any building, garage, or other enclosed area. Never operate your grill in a recreational vehicle or boat. Never operate your grill under any combustible materials, such as carports, covered porches, awnings, or overhangs.

### CAUTION

**Keep the sides of the grill at least 16 inches from any combustible material. Keep the back of the grill at least 18 inches from any combustible material. Placing a hot grill too close to a building or other combustible material may lead to fire, property damage, or personal injury. Combustible materials include fences, patio furniture, and your home.**

Keep the area around the grill clear to ensure proper ventilation.

### WARNING

**Do not install or operate this grill where gasoline or other flammable materials are used or stored. Failure to comply with this warning could result in explosion or fire causing property damage or personal injury.**

## Gas Type

The type gas required for your grill can be determined from the product identification label located on the grill's control panel. Questions regarding different types of gases should be directed to your local gas supplier.

### CAUTION

**Never use Liquid Propane (LP) gas in a grill designed for Natural gas, or Natural gas in a grill designed for Liquid Propane gas. Questions regarding different types of gases should be directed to your local gas company.**

## Connection Requirements

Broilmaster natural gas grills are not equipped with pressure regulators. Your gas grill operates at a manifold pressure of seven inches water column. (Your natural gas technician will understand what this means.)

For a cart-mounted Natural gas grill have a trained technician from your gas supplier or your grill dealer run the gas line to a convenient location, terminating in a gas valve and a quick-connect gas fitting.

Connect your grill to this coupling using the twelve-foot flexible hose with a quick disconnect fitting (available for purchase from your Broilmaster dealer.)

### CAUTION

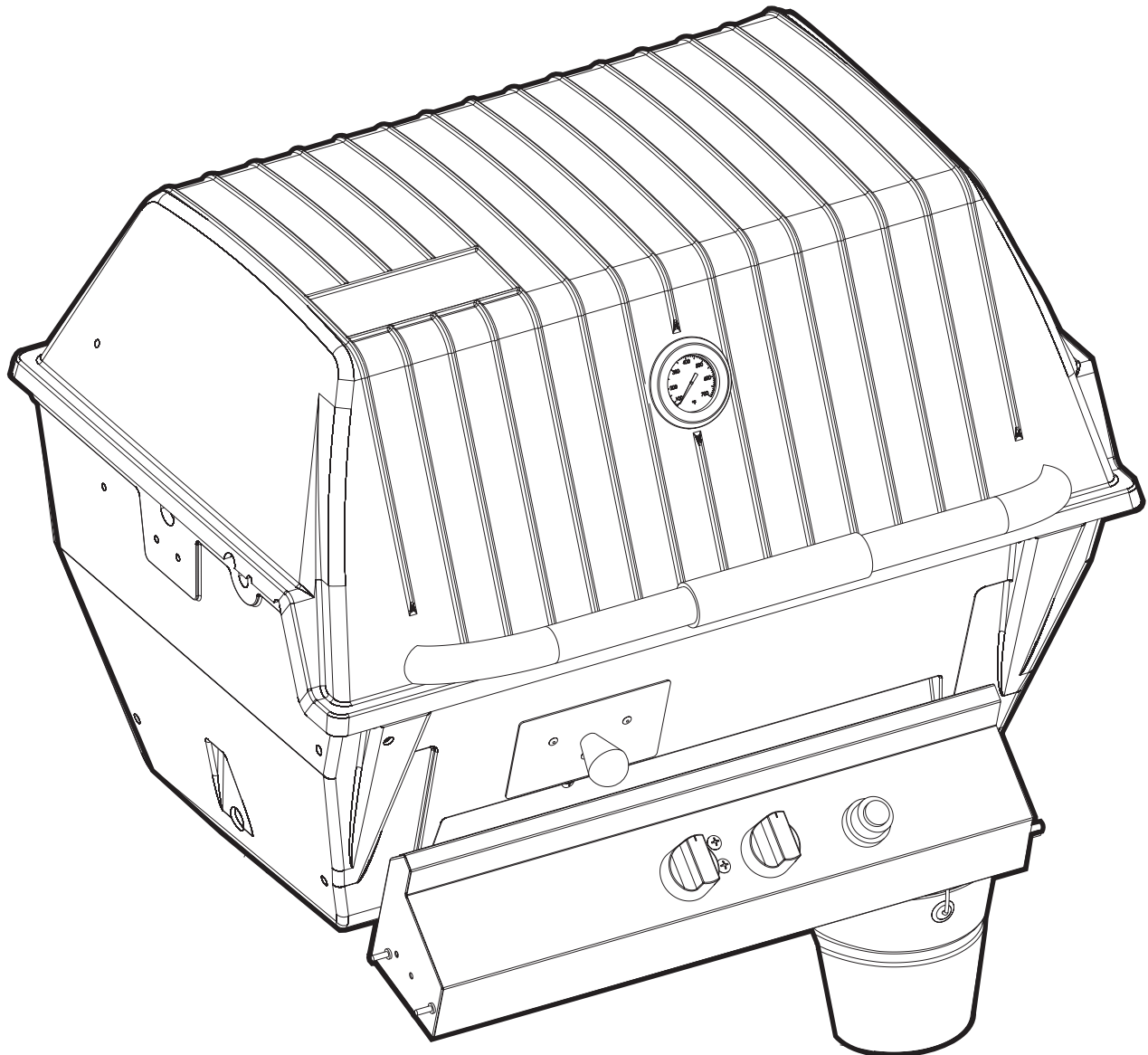
**The grill and its individual shutoff valve must be disconnected from the gas supply piping system during any system pressure testing at test pressures in excess of 1/2 PSIG.**

### CAUTION

**The grill 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 PSIG.**

## COMPLETED ASSEMBLY

Thank you for purchasing a Premium Gas Grill and we hope you enjoy years of great meals prepared on your Broilmaster. Please feel free to visit the Broilmaster Facebook page and share photos of your Broilmaster grill.



# Thank You!

# OPERATION - PROPANE AND NATURAL GAS GRILLS

## Check for Gas Leaks

Check for gas leaks every time you connect your Broilmaster propane gas grill to a Propane gas cylinder, when a connected cylinder has not been used recently, or when either a natural or propane grill is being used for the first time.

### ⚠ WARNING

**Do not use an open flame when checking for leaks. Checking for leaks with an open flame may lead to a fire or explosion, resulting in property damage or personal injury.**

To check for gas leaks:

1. Use water dish and a little dish washing liquid to make a soapy solution.
2. Turn OFF the knob on the control panel.
3. Turn ON the gas at the supply or cylinder. A hissing sound indicates a leak. Turn OFF the gas and repair the leak.
4. Apply the soapy water solution to all gas connections.
5. Look for bubbles. Bubbles indicate a leak.
6. If you see bubbles turn OFF the gas and repair the leak.
7. Turn the gas back ON and repeat the above procedures until all leaks are repaired.

## Air Shutter Adjustment

The venturi air shutter(s) are preset at the factory so that after five minutes the burner flames are blue with well-defined cones. If, after five minutes the flame is yellow, or there is a gap between the burner and the flame, adjust the venturi air shutter as follows:

1. Turn gas OFF and let the burner cool.
2. Loosen shutter set screw.
3. Close the air shutter to the minimum opening.
4. Light the burner, wait five minutes and then carefully open the air shutter until the flame is blue and well defined.
5. Retighten the set screw.

## Heat Indicator Recalibration

The heat indicator can be recalibrated if needed. Remove the heat indicator from the grill and place the probe end in a pot of boiling water. Set the heat indicator by turning the screw in the end of the stem until it reads 212 degrees. The indicator is now set.

## Operating Instructions

### Lighting with the Electric Ignitor

#### ⚠ CAUTION

**If a burner fails to light after 5 seconds, turn the burner OFF for 5 minutes, to allow the gas to clear, then try again.**

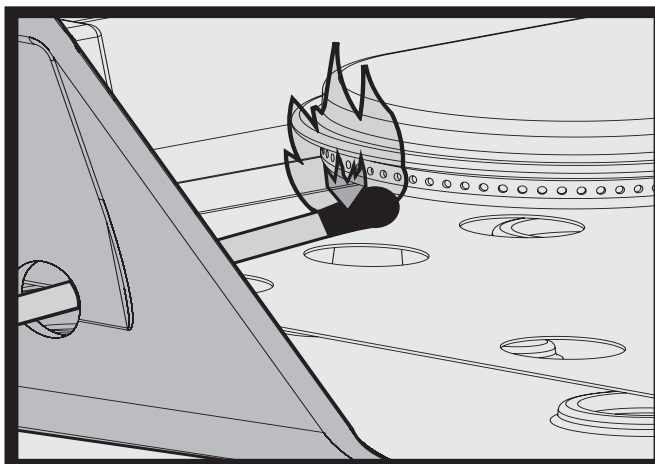
1. Open the grill lid.
2. Turn burner knob CLOCKWISE to the OFF position.
3. Turn ON the gas at the source.
4. With the grill lid open, push and turn the burner control knob COUNTERCLOCKWISE to Hi.
5. Push and hold the ignitor button until the burner lights (approximately 5 seconds).
6. If a burner does not light, turn OFF all gas and refer to the Troubleshooting section of this manual.

### Lighting with a Match

#### ⚠ CAUTION

**If a burner fails to light after 5 seconds, turn the burner OFF for 5 minutes, to allow the gas to clear, then try again..**

1. Open the grill lid.
2. Turn the burner knob CLOCKWISE to the OFF position.
3. Turn ON gas at the source.
4. With the grill lid open, push and turn the burner control knob COUNTERCLOCKWISE to HI.
5. Insert a long wooden lighted match through the lighter hole on either side of the grill. **See Figure Below.**
6. If a burner does not light, turn OFF all gas and refer to the Troubleshooting section of this manual.



LIGHTING WITH A MATCH

# OPERATION - PROPANE AND NATURAL GAS GRILLS

## Before Cooking

Before cooking on a grill for the first time, burn off any oil residue from the manufacturing process.

1. Open the grill lid.
2. Light grill burner.
3. Burn on HI for ten minutes.
4. Close the lid and burn on HI for an additional ten minutes.
5. The grill is now ready for use.

## Preheating

Before cooking on a gas grill, allow the grill to preheat on HI for 5 minutes with the lid closed.

Preheating uses very little fuel, provides better flavor, and provides more consistent cooking times.

## Electrical Accessories

Any electrical accessory (e.g. rotisserie) used must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electric Code, ANSI/NFPA 70. In Canada, the electrical accessory must be electrically grounded in accordance with the applicable section of the current Canadian Electrical Code, CSA C22.1.

Any electrical accessory should be equipped with a three-prong (grounding) plug and plugged into a properly grounded three-prong receptacle or wall outlet. Do not cut or remove the grounding prong from the plug.

### WARNING

**I**f an extension cord is required, use only a three-prong cord and plug into a properly grounded receptacle as described above. Do not expose an electrical accessory to water. Avoid using any electrical accessory in wet weather as it may present a shock hazard.

### WARNING

**K**eeP any electrical cord and fuel supply hose away from all heated surfaces.

# MAINTENANCE

## Cleaning the Grill

### CAUTION

**To prevent injury, use care when cleaning a hot grill.**

Buy a good grill brush. Inexpensive grill brushes tend to lose their metal bristles, which can stick to your cooking grids and become embedded in foods.

A grill builds up a patina of smoke residue. This “seasoning” is normal and actually enhances the flavor of your foods. If the build-up grows too thick, it can flake off and fall onto your food. To remove excess build-up, let the grill cool completely and then brush thoroughly with a high-quality grill brush.

**Note: Do not use a commercial cleaner on the cooking grid. For baked-on residue use a grill brush on the cooking grid and other components.**

## Grids and Drip Pan

The grids are made of high quality stainless steel and should be cleaned with a brass or stainless steel brush while the grill is still warm.

The drip pan is made of high quality stainless steel as well and can be cleaned with a scraping tool. The pan must be kept clean of heavy build-up for the grill to perform properly and to reduce flare-ups. Clean as needed or approximately every 10 uses.

## Burn Off

This process is much like that used in self-cleaning ovens and is most efficient when completed after each use of the grill.

### CAUTION

**Do not open the grill during the burn off process. Opening the grill during the burn off process may cause a sudden grease fire flare up that could burn your face and arms. Wait until the grill has cooled before opening.**

1. Turn gas knob to HI. Close lid and allow the grill to burn for ten minutes, or until no smoke is present. Do not allow the grill to burn for more than 30 minutes.
2. Turn gas knob and supply to OFF and allow the grill to cool.
3. Wipe COOL grill with a damp cloth to remove soot.

## Grill Bottom

Once or twice a year remove cooking grids and drip pan to clean the interior of the grill. Scrape off baked on residue with a putty knife or brass brush and rinse with water.

## Burner Maintenance

Stainless steel burners often turn reddish brown after use. This does not effect the performance of the grill. When cleaning the interior of the grill, remove the burners and clean with a brush. Wash with water and a mild detergent.

## Grease Cup

Empty periodically.

## Drain Pipe and Valve

Keep Drain pipe and valve must be kept clear of grease and food particles to allow the grease to drain properly. To clear the drain pipe and valve, run a flexible drain brush through them. (See DPA22)

## Bucket

Store the bucket under the grill lid when the grill is not in use. Empty the drip bucket after each use.

## Heat Indicator

Clean any build-up from indicator probe once a season to prevent loss of accuracy.

## Venturi Tubes

# MAINTENANCE

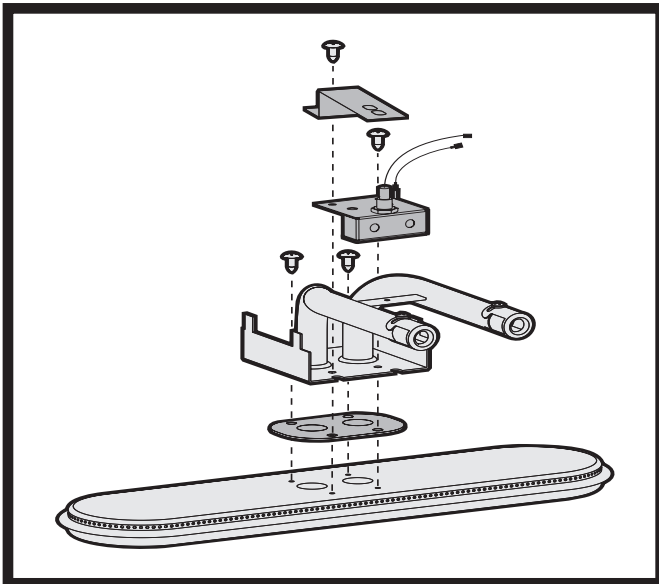
The venturi tubes allow air and gas to mix prior to burning, ensuring an efficient flame. Spiders or other small insects may build webs or nests inside the tubes obstructing air flow. This can cause a fire, or flashback, around the obstructed venturi tubes and may damage to components beneath the grill or an unsafe condition. To reduce risk, inspect and clean the venturi tubes at least twice per year and more often if spiders are active. If the grill has been unused for an extended period of time inspect the tubes before using the grill.

## Cleaning Venturi Tubes

1. Remove the cooking grids and drain pan.
2. Remove the burner from the grill.
3. Lay the burner face down and remove the four retaining screws from the venturi tube plate and the burner.

### See Figure Below.

4. Use a small flexible brush to remove any debris for the tube(s).
5. Flush with water.
6. Allow the tube(s) to dry before reinstalling.
7. Reattach the venturi, collector box, and bracket in the reverse order removed.
8. Reinstall burner, drip pan, and cooking grids.



CLEANING VENTURI TUBES

## Exterior Cleaning

Turn off the grill and allow it to cool before cleaning. Never use aerosol sprays or flammable cleaners on or near a hot grill.

Do not use abrasive pads or cleansers on stainless or painted components.

Clean the grill exterior regularly with a solution of mild detergent and hot water.

Touch-up paint is available from your dealer.

To protect your grill from the elements, use a Broilmaster protective cover. Clean stainless steel components with a stainless steel cleaner available in most hardware stores.



# TROUBLESHOOTING

Although we have attempted to ensure that your grill will operate properly and satisfactorily, sometimes problems do arise. The following troubleshooting guide lists several possible problems and their probable cause and solution.

Do not repair or replace any part of the grill unless specifically recommended in this manual. All other service should be referred to a qualified technician.

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
Burner will not light	Spider webs in venturi tubes	Clean venturi tubes. See Maintenance Section.
	Out of gas	Refill LP gas cylinder. If natural model, turn on gas at source.
	Gas injector not inserted in venturi tube	Realign/engage gas injector with the venturi tube.
	Clogged gas injector	Remove gas injector from gas control assembly and clean.
	Obstruction in gas line	For propane models, ensure gas valve on cylinder is OFF. Remove flexible hose and blow out any debris.
	Misalignment of collector box and burner	Position electrode properly. Clean collector box.
	Dead battery	Replace with AA Alkaline battery.
Inadequate grill temperature	Poor combustion	Adjust air shutter.
	Misalignment of venturi tube and gas injector	Realign/engage gas injector with the venturi tube.
	Inadequate gas pressure	Contact gas supplier for assistance.
Flames blow out	Cold grill	Preheat grill at least 5 minutes on HI with the grill lid closed.
	Misalignment of burner tube and gas injector	Realign/engage gas injector with the burner tube.
	Poor combustion	Adjust air shutter.
	Extreme wind	Turn or shield grill.
Yellow flames	Air shutter improperly set	Open air shutter.
	Spider webs in venturi tubes	Clean venturi tubes. See Maintenance Section.
	Seasoning salts on burner	Clean by washing burner with mild detergent.
	Oil film on burner	Allow burner to operate on HI for 10-15 minutes.

# IMPORTANT SAFETY INFORMATION

## WARNING

**S**piders and insects can nest in gas grill burners causing the gas to flow from the front of the burner and ignite under the control panel. This is very dangerous and can damage the grill, making it unsafe to operate. Inspect the grill at least twice per year and more often if spiders are active.

Be sure all grill controls are turned off and the grill is cool before using any type of aerosol cleaner on or around the grill. The chemical that produces the spraying action could, in the presence of heat, ignite or cause metal parts to corrode. Do not operate the grill under unprotected combustible construction. Use only in well ventilated areas. Do not use in buildings, garages, sheds, breezeways or any enclosed areas.

Keep the area around the grill free from combustible materials, trash, or combustible fluids and vapors such as gasoline or charcoal lighter fluid. Do not obstruct the flow of combustion and ventilation air. Keep the back of the cart free and clear from debris.

If the grill is stored indoors ensure that it is cool. If propane is used, the cylinder must be unhooked and the propane cylinder stored outside in a well-ventilated area, out of reach of children.

Never use the grill in windy conditions. If located in a consistently windy area (oceanfront, mountain top, etc.) a windbreak will be required.

Always adhere to the specified clearance.

Keep electrical cords always from the heated areas of the grill.

Do not use the grill for cooking excessively fatty meats or products, which promote flare-ups.

### **Keep Children Away from the Grill at All Times**

Never leave children unattended near the grill. Teach them to stay away even when you are not cooking, as the grill can remain hot after it is turned off.

Never allow children near the grill at any time. Do not store items of interest to children around or below the grill or in the cart.

Never allow children to crawl inside of a cart or island enclosure.

# IMPORTANT SAFETY INFORMATION

## Practice Safe Grilling

Do not wear loose fitting clothing or readily flammable clothing (such as synthetics) around the grill. Never let clothing, pot holders, or other flammable materials come in contact with or too close to any grate, burner or hot surface. Fabric may ignite and result in personal injury.

Use only dry pot holders. Using a damp pot holder on a hot surface may cause burns from steam. Do not use towels or bulky cloth in place of pot holders. Do not let pot holders touch hot cooking grids. Never use a sponge on a hot surface, as it may cause steam burns. Protect your hand with an oven mitt or pot holder when opening the grill lid. Never lean over an open grill.

Use heat-proof cookware and tools specifically designed for grilling. Other types of material may shatter with sudden temperature changes or melt from extreme heat. Use tools with insulated handles and keep them away from the grill to avoid heat build-up.

Do not spray aerosol oil or butter or pour liquid oil into the grill. Doing so will cause a flash fire that can burn you.

Grease is flammable. Let grease cool before attempting to handle it. Avoid letting grease deposits collect in the bottom of the grill. Clean your grill often.

Do not use aluminum foil to line the cooking grids or grill bottom. This can disrupt combustion air flow or trap excess heat in the control area. Excess heat can melt knobs or ignitors, and increase the chance of personal injury. The drip tray accessory may be lined with aluminum foil.

Do not heat unopened food containers - such as cans, jars, and sealed pans. Pressure build-up may cause the container to burst.

When lighting a grill, always open the lid first and pay close attention to what you are doing. Turn one burner knob to HI, press the ignitor button and count to five.

For proper lighting and performance of the burners keep the ports clean.

Clean the grill with caution. Avoid steam burns; do not use a wet sponge or cloth to clean the grill while it is hot. Some cleaners produce noxious fumes or can ignite if applied to a hot surface.

# COOKING TIPS

## Cook Food To Proper Temperatures

Cooking food safely requires that you raise the internal temperature of the meat high enough and for a long enough period of time to kill any food-borne bacteria that may cause illnesses.

Color is not the best indicator that food is safe to eat. Use a high-quality probe thermometer to be sure your food is properly cooked. Place the tip of an instant-read thermometer into the center of the thickest part of the food but at least 1/2 inch deep. Read the temperature after about 10 seconds. Follow the temperature guidelines for the type of food you're cooking.

The following guidelines are from the U.S. Food and Drug Administration Center for Food Safety and Applied Nutrition.

Cook to Internal Temp			
Meat & Poultry	Medium Rare	Medium	Well Done
Fresh Beef - Medium Rare	145°F	160°F	170°F
Ground turkey, chicken	165°F		
Ground veal, beef, lamb, pork	145°F with 3 minutes of rest and then turn		
Fresh Pork - Medium		160°F	170°F
Chicken - whole	165°F		
Turkey - whole	165°F		
Poultry breasts, roast	165°F		
Poultry thighs, wings	165°F		
Stuffing (cooked alone or in bird)	165°F		
Duck and goose	180°F		
Fresh Veal - Medium Rare	160°F		
Fresh Lamb - Medium Rare	145°F	160°F	170°F
Ham - fresh (raw)	145°F	160°F	170°F
Ham - pre-cooked (reheat)	140°F		
Seafood			
Fish	Cook until flesh turns opaque and flakes easily with a fork.		
Shrimp, lobster, crab	Cook until shells turn red and flesh becomes pearly opaque.		
Scallops	Should turn milky white or opaque and firm.		
Clams, mussels, oysters	Cook until shells open.		

The Qrave Grill is an indirect gas grill. This means that the flame never comes in contact with the food and does not flare up. The drip pan vaporizes all the drippings into smoke and moisture. This produces tastier and juicier foods. You will be amazed at how easy it is to cook all your favorites and more; perfect every time.

The following instructions are to be used as a guideline. You may need to adjust the cooking times and temperatures to suite your own taste.

When cooking on the Qrave Grill, it is essential that the lid remain closed. This not only keeps the temperature constant, but holds in the moisture as well.

The drip pan drain valve should be open when grilling. This allows the excess grease to continuously drain into the catch bucket. The only time the drain valve should be closed is when cooking with a liquid in the pan.

Quick Temperature Reference		
Valve Knob Setting	Approximate Temperatures	Types of Cooking
One Valve Knob Low	220°F to 250°F	Slow Cooking & Smoking
Both Valve Knob Low	320°F to 350°F	Roasting & Baking
Both Valve Knob Medium	375°F to 425°F	Roasting & Baking
Both Valve Knob High	450°F to 550°F	Grilling & Steaming

\*The above temperature settings are a guide, the temperatures may vary due to wind and outside ambient temperatures.

# COOKING TIPS

## Grilling

1. Place the cooking grids in the low position.
2. Preheat your grill with both valve knobs set to High for 15 minutes.
3. No liquids in drip pan.

We recommend that when grilling, the valve knobs should remain on high. This cooking method is great for hamburgers, steaks, chops, etc.

## Roasting

When roasting it is important to remember that it is just like cooking in your oven. Hint: You may want to fill the drip pan with water or a marinade to create more flavor and moisture.

1. Close the drip pan drain valve and fill the pan about half full with water or marinade.
2. Set the cooking grids at the low position.
3. Preheat the grill with both controls on High for 15 minutes.
4. Set the valve knobs to the desired temperature using the Quick Temperature Reference Chart.

While cooking, monitor the heat indicator on the grill and adjust temperature as necessary.

More water or marinade may need to be added to the pan as it evaporates during cooking.

Roasted chicken, turkey or pork roasts will never taste better.

## Baking

Before starting, make sure the drip tray is clean.

1. Place the cooking grids at the high position to remove the food away from the direct heat.
2. Preheat your grill with both valve knobs set to High for 15 minutes.
3. Set the valve knobs to the desired temperature using the Quick Temperature Reference Chart.

Use the heat indicator on the grill to more accurately adjust the temperature.

Even cookies, pizza and desserts can be made on the Qrave Grill.

## Steaming

Before starting, make sure the drip tray is clean.

1. Set the cooking grids at the low position.
2. Close the drip pan drain valve and fill pan with water. Be careful not to over-fill the pan.
3. Preheat your grill with both valve knobs set to High for 15 minutes.
4. The valve knobs will remain on high for steaming. Cook until desired taste. More liquid may need to be added to the pan as it evaporates during cooking.

Vegetables and seafood taste great when steamed in the Qrave Grill.

## Smoking

The Qrave Grill is equipped with a front load smoker box.

1. Soak your flavor smoking chips in water for about 15 minutes. This will make the chips burn slower and create more flavor.
2. Remove the smoker box and fill with the soaked chips and then replace.
3. Set the cooking grids at the low position.
4. Preheat your grill with both valve knobs set to High for 15 minutes or until you detect smoke.
5. Place the food on the grill and adjust the temperature as desired.

**Note:** The left knob controls the amount of heat under the smoker box. The smoker box is designed to be used on low for best results.

This works great for adding smoke flavor when grilling and roasting.

## Slow Cooking with Smoking

The Qrave Grill has dual controls for more control for those low temperatures needed for slow cooking.

1. Adjust the cooking grids to the high position.
2. Close the drain valve and add water or marinade to the drip pan. It is recommended to slow cook with a liquid in the pan to keep the food from drying out. More liquid may need to be added to the pan as it evaporates during cooking.
3. Preheat your grill with both valve knobs set to High for 15 minutes.
4. Turn off the right valve knob and turn the left valve knob to low. Hint: The left valve knob controls the heat on the smoker box. Add water-soaked flavor chips to the smoker tray as needed. Most chips will last about an hour before needing to be replaced.

Turn the food once an hour when slow cooking.

Slow cooking with a Qrave Grill could mean the best ribs or brisket your family has ever tasted.

### CAUTION

**Always use an oven mitt when removing smoker box while grill is hot. Make sure chips are cooled before emptying smoker box.**

# WARRANTY TERMS

**Empire Comfort Systems Inc. warrants this Broilmaster premium gas grill to be free from defects at the time of purchase and for the periods specified below. Broilmaster Premium Gas Grills must be installed by a qualified technician and must be maintained and operated safely, in accordance with the instructions in the owner's manual. This warranty applies to the original purchaser only and is not transferable. All warranty repairs must be accomplished by a qualified gas appliance technician.**

## **Limited Lifetime Parts Warranty – Against Rust-Through**

If the items listed below fail because of defective workmanship or material, Empire will repair or replace at Empire's option. The limited lifetime warranty provides one-time replacement of a covered component.

- Aluminum Grill Housing (except paint)
- Stainless Steel Cooking Grids and Stainless Steel Griddles
- Select Stainless Steel Components – Cart, Mounting, Bowtie Burner, Side Burner (DPSBSS), Side Burner Housing, and Warming Rack
- Stainless Steel Built-In Components – Built-In Kits for 3-Series Grill Heads, Door Kit, Tilt-Out LP Tank Door, and Vent Register Kit

## **Limited Ten-Year Parts Warranty – Against Rust-Through**

If the items listed below fail because of defective workmanship or material, Empire will repair or replace at Empire's option.

- Stainless Steel Burners for H-Series, Q-Series, and R3B
- Stainless Steel Drip Pan for Q-Series
- Side Burner (DPASBC), Side Burner Housing (BSA)

## **Limited Five-Year Parts Warranty – Against Rust-Through**

If the items listed below fail because of defective workmanship or material, Empire will repair or replace at Empire's option.

- Infrared Burners on R3 or R3B
- Flare Buster™ Ceramic Flavor Enhancers
- Painted Electro-Galvanized Steel Components
- Stainless Steel Smoker Shutter

## **Limited Two-Year Parts Warranty – Against Rust-Through**

If the items listed below fail because of defective workmanship or material, Empire will repair or replace at Empire's option.

- Porcelain Coated Steel Briquette Racks
- Chrome-Plated Warming Rack
- Stainless Steel Heat Shield

## **Limited One-Year Parts Warranty**

If the items listed below fail because of defective workmanship or material, Empire will repair or replace at Empire's option.

- Valves, knobs, ignitors, labels, hoses, fittings, grease cups, drip buckets, and all other parts and accessories – including those made from stainless steel – unless specified above
- Paint on Aluminum Grill Head

**Note:** Using lighter fluid will void the warranty. Always light charcoal with a chimney, lighter cubes or an electric starter.

## **Duties Of The Owner**

The appliance must be installed by a qualified installer and operated in accordance with the instructions furnished with the appliance. A bill of sale, cancelled check, or payment record should be kept to verify purchase date and establish warranty period. Ready access to the appliance for service.

## **What Is Not Covered**

- Damages that might result from the use, misuse, or improper installation or storage of this appliance.
- Travel, diagnostic costs and freight charges on warranted parts to and from the factory.
- Claims that do not involve defective workmanship or materials.
- Unauthorized service or parts replacements.
- Removal and reinstallation cost.
- Inoperable due to improper or lack of maintenance.
- The costs of a service call to diagnose a problem and labor for replacement or repairs.

## **How To Get Service**

To make a claim under this warranty, please have your receipt available and contact your installing dealer. Provide the dealer with the model number, serial number, type of gas, and purchase verification. The installing dealer is responsible for providing service and will contact the factory to initiate any warranted parts replacements. Empire will make replacement parts available at the factory. Shipping expenses are not covered. If, after contacting your Empire dealer, service received has not been satisfactory,

**Contact: Consumer Relations Department  
Replacement, Empire Comfort Systems Inc.,  
PO Box 529, Belleville, Illinois 62222, or send an e-mail to  
info@empirecomfort.com with "Consumer Relations" in the subject line.  
Your Rights Under State Law**

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

**Broilmaster is a Division of Empire Comfort Systems, Inc.**

# MASTER PARTS DISTRIBUTOR LIST

To order parts under warranty, please contact your local Broilmaster dealer. See the dealer locator at [www.broilmaster.com](http://www.broilmaster.com).

To provide warranty service, your dealer will need your name and address, purchase date and serial number, and the nature of the problem. Please keep your receipt to establish ownership and date of purchase.

To order parts after the warranty period, please contact your dealer or one of the Master Parts Distributors listed below.

The Master Parts Distributor list changes from time to time. For the current list go to [www.broilmaster.com](http://www.broilmaster.com) and click on the Parts button.

**NOTE:** Master Parts Distributors are independent businesses that stock the most commonly ordered repair parts.

## Dey Distributing

1401 Willow Lake Boulevard  
Vadnais Heights, MN 55101

**Phone:** 651-490-9191

**Toll Free:** 800-397-1339

**Website:** [www.deydistributing.com](http://www.deydistributing.com)

**Parts:** Heater, Hearth and Grills

## F. W. Webb Company

200 Locust Street  
Hartford, CT 06114

**Phone:** 860-722-2433

**Toll Free:** 800-243-9360

**Fax:** 860-293-0479

**Toll Free Fax:** 800-274-2004

**Websites:** [www.fwwebb.com](http://www.fwwebb.com) & [www.victormfg.com](http://www.victormfg.com)

**Parts:** Heater, Hearth and Grills

## East Coast Energy Products

10 East Route 36  
West Long Branch, NJ 07764

**Phone:** 732-870-8809

**Toll Free:** 800-755-8809

**Fax:** 732-870-8811

**Website:** [www.eastcoastenergy.com](http://www.eastcoastenergy.com)

**Parts:** Heater, Hearth and Grills

## HOW TO ORDER REPAIR PARTS

### Parts Not Under Warranty

Parts can be ordered through your Service Person, Dealer, or a Master Parts Distributor. See this page for the Master Parts Distributors list. For best results, the **service person or dealer** should order parts through the distributor. Parts can be shipped directly to the **service person/dealer**.

### Warranty Parts

Warranty parts will need a proof of purchase and can be ordered by your Service Person or Dealer. Proof of purchase is **required** for warranty parts.

All parts listed in the Parts List have a Part Number. When ordering parts, first obtain the Model Number and Serial Number from the name plate on your equipment. Then determine the Part Number (**not** the Index Number) and the Description of each part from the following illustration and part list. Be sure to give all this information . . .

Model Number / Dealer \_\_\_\_\_ Part Description \_\_\_\_\_

Serial Number / Dealer Phone Number \_\_\_\_\_ Part Number \_\_\_\_\_

Type of Gas (Propane or Natural) \_\_\_\_\_

Do not order bolts, screws, washers or nuts. They are standard hardware items and can be purchased at any local hardware store.

Shipments contingent upon strikes, fires and all causes beyond our control.

Your Broilmaster Premium Gas Grill is identified by model number, serial number, and gas type. This information is provided on a product identification label located on the grill's control panel. For your convenience, complete this section for future reference when contacting your dealer.

# GRILL MAINTENANCE HISTORY

Date	Maintenance Performed



**BROILMASTER**  
A Division of Empire Comfort Systems, Inc.  
Belleville, Illinois

VISIT OUR WEB SITE AT [www.broilmaster.com](http://www.broilmaster.com)

If you have a general question about our products, please e-mail us at [info@empirecomfort.com](mailto:info@empirecomfort.com).  
If you have a service or repair question, please contact your dealer.