

---

# RUBY SERIES GRILLS

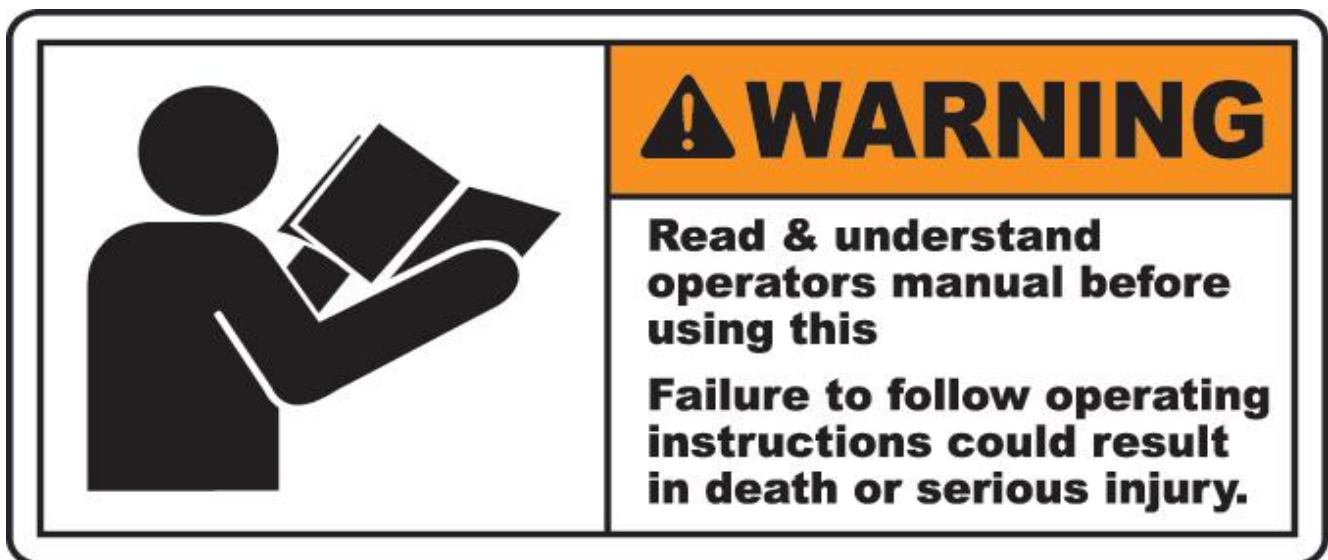
## *GAS CONVERSION INSTRUCTIONS*

*FOR BOTH LIQUID PROPANE TO NATURAL GAS OR NATURAL  
GAS TO LIQUID PROPANE*

---

### Understanding Gas Appliance Conversions

Making changes to an appliance so that it can utilize a different fuel is known as appliance conversion. The inner Valves and Orifices are designed to work with a gas that has a specific pressure. Natural gas is a much lower pressure gas than propane and converting the appliance to one or the other gases requires that the differing pressure is compensated for. In other words, connecting a natural gas appliance to a propane piping system will result in appliance malfunction and possibly danger. The reason for this is because natural gas orifices are larger than propane orifices strictly because of gas service pressure. In this case, the higher-pressure gas flowing through a larger orifice will result in more gas through the burner and likely, more flame...an unnecessarily large flame. Conversely, trying to use a propane appliance with natural gas will likely result in a very small flame or no burner flame at all because of the lower pressure gas and the smaller orifice. This is the purpose of an appliance conversion from propane to natural gas or from natural gas to propane.



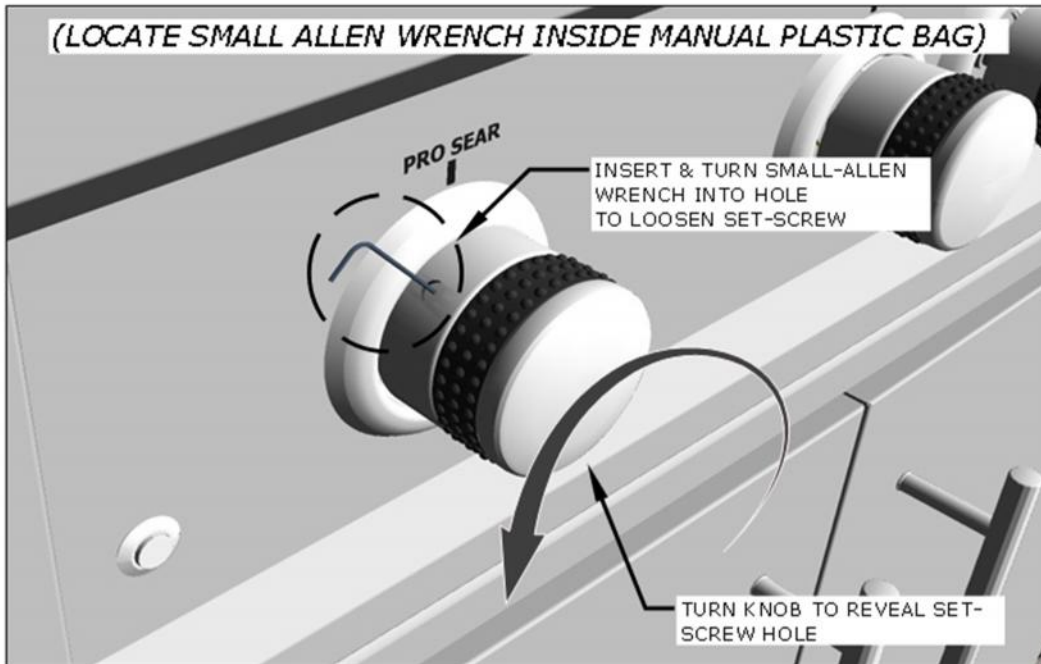
**To installer or person assembling grill:** Leave this manual with grill for future reference.

**To consumer:** Keep this manual for future reference.

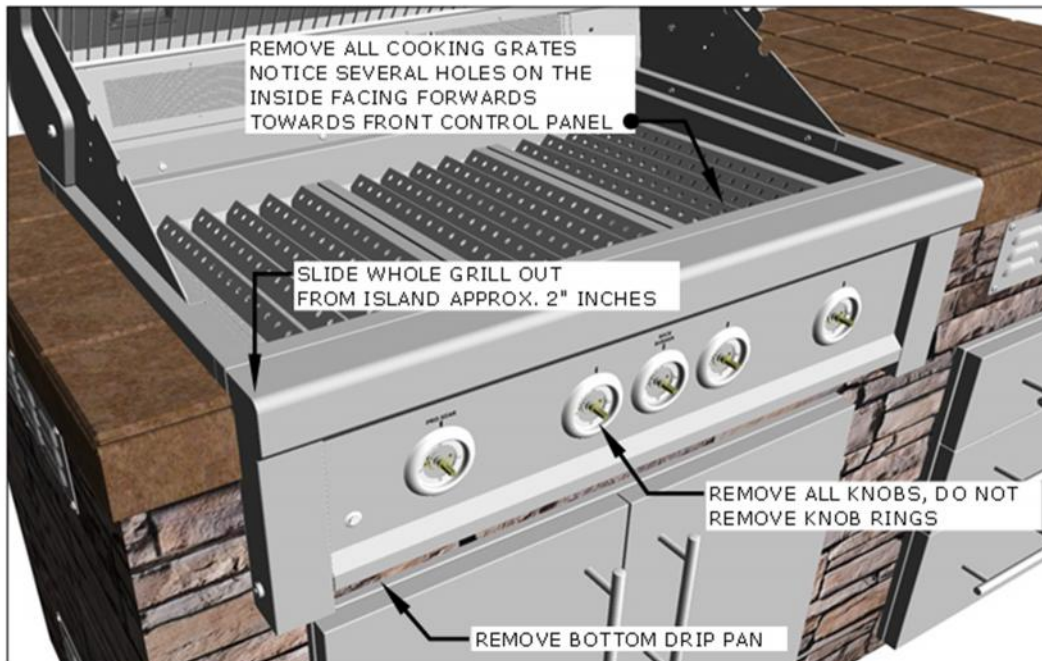
## **SERVICE ACCESS – Opening Panel**

When performing a Gas Conversion, Opening the Panel is the First Step to converting the grill from either Liquid Propane or Natural Gas. Always Turn-Off and Disconnect any Gas Lines or Connections from the grill, before performing any service or conversion on the grill.

### **1. ROTATE KNOBS TO REVEAL HOLE, INSERT SMALL ALLEN WRENCH FOUND WITH PRODUCT MANUAL**

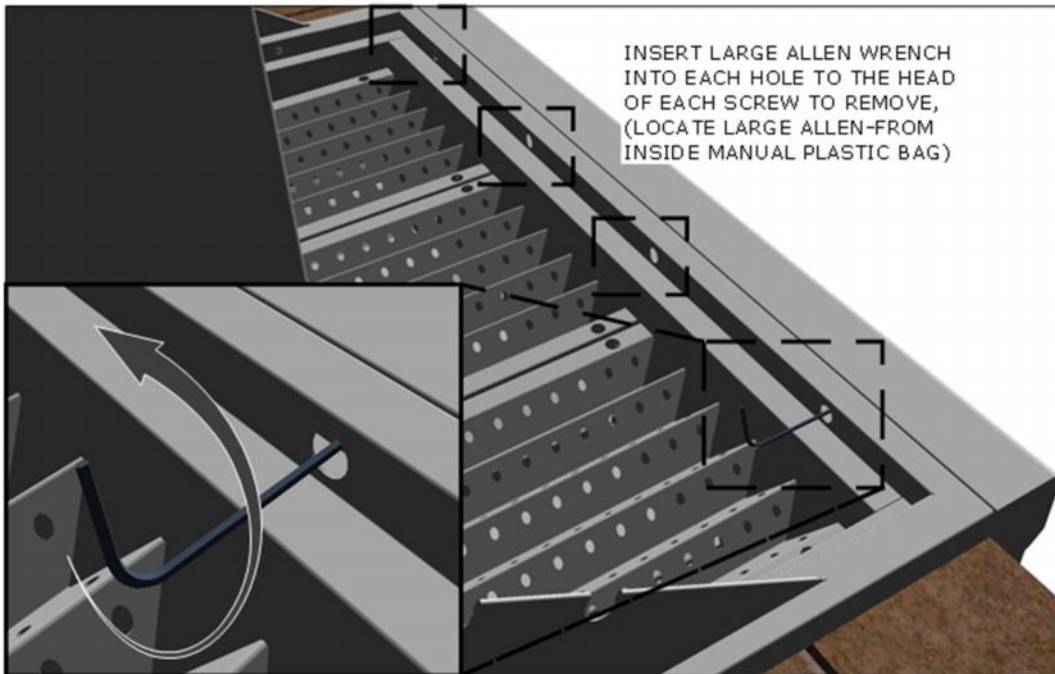


### **2. REMOVE COOKING GRATES, ALL KNOBS & DRIP PAN ONLY & PLACE ON SIDE COUNTER**

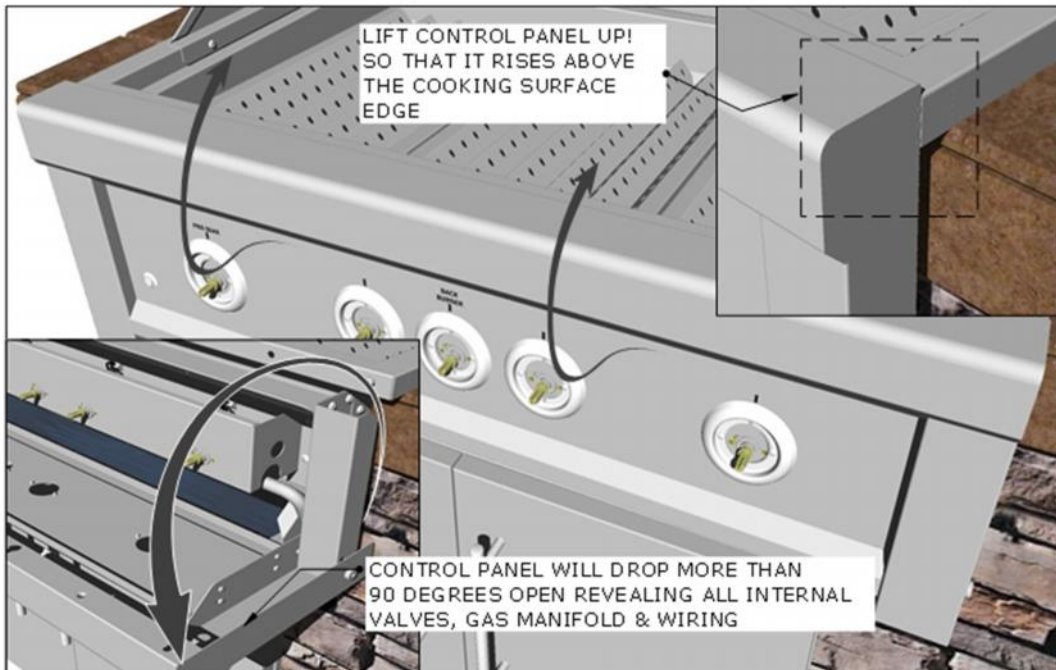


## SERVICE ACCESS – Opening Panel

### **3. LOCATE LARGE ALLEN WRENCH WITH PRODUCT MANUAL, REMOVE BACK CONTROL PANEL SCREWS**



### **4. GRIP CONTROL PANEL TOP LIP, AND LIFT UP RELEASING PANEL, ALLOW IT TO DROP OPEN**



# GAS CONVERSION – Getting Started



## **DANGER!**

Disconnect the Gas Line from back of grill, and Turn the Gas Supply OFF to the grill before performing Gas Conversion. Serious Injury may result if Gas is Left ON.

## **Parts Needed for each Gas Conversion Type**

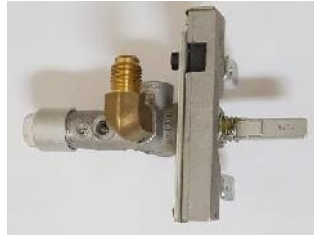
### NG to LP Conversion:

**LP Valve – Need 3, 4 or 5**  
depending number of burners



Item No. R-Rvalve for LP

### **Safety Valve for NG (With IR Burner)**



Item No. R-RSvalve for LP

### **LP Regulator**



Item No. LP-Reg

### **1/2" to 3/8" Flare Adapter**

Item No. P-MAdaptor for LP



### **LP IR-Flare Adapter**

Item No. P-Orifice-IR for LP  
(With IR Burner)



### LP to NG Conversion:

### **#50 Drill Bit**



### **NG Regulator**



### **Safety Valve for NG (With IR Burner)**



Item No. R-RSvalve for NG

### **1/2" Flare**

Item No. P-MAdaptor for NG



### **NG IR-Flare Adapter**

Item No. P-Orifice-IR for NG  
(With IR Burner)

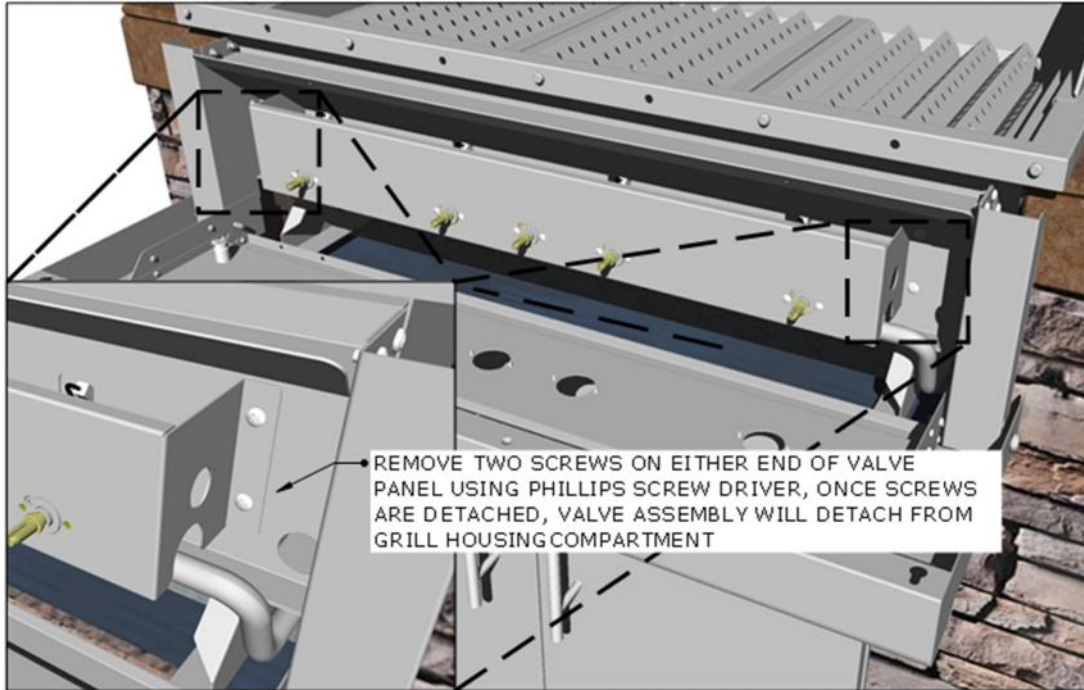




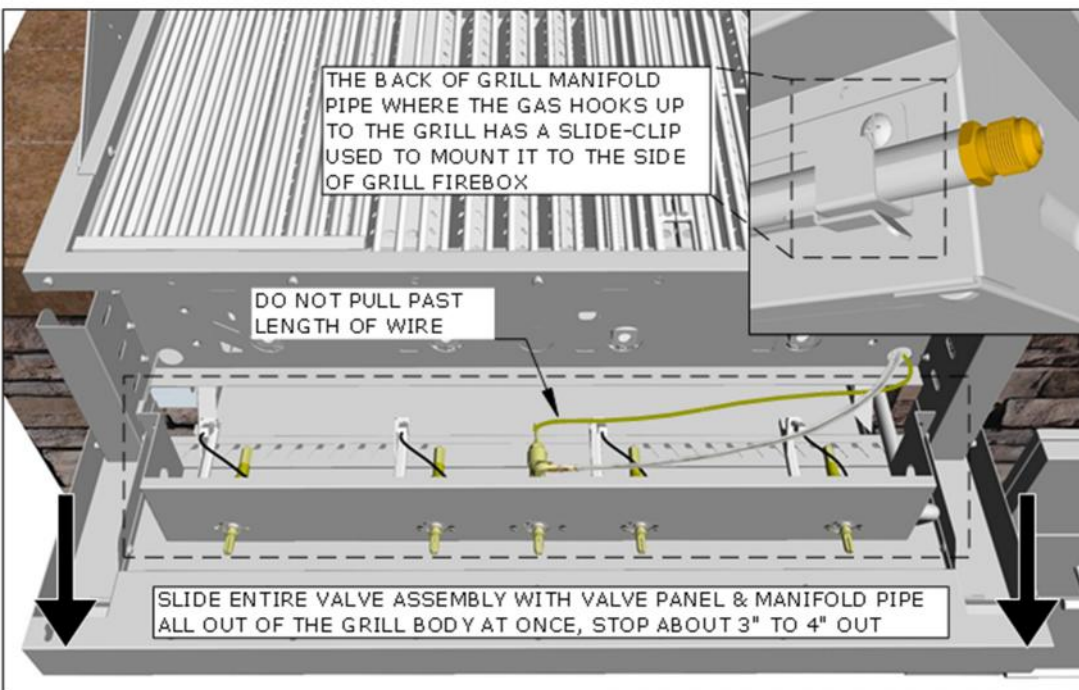
## **GAS CONVERSION – Accessing Valves**

The Following section is for converting your Ruby Grill from **NG to LP** or from **LP to NG**. While performing this conversion, make sure your Gas line is Disconnected from the Grill and Gas is turned Off.

### **1. USING PHILIPS SCREW DRIVER, REMOVE THE TWO SCREWS AT EITHER END OF VALVE PANEL**



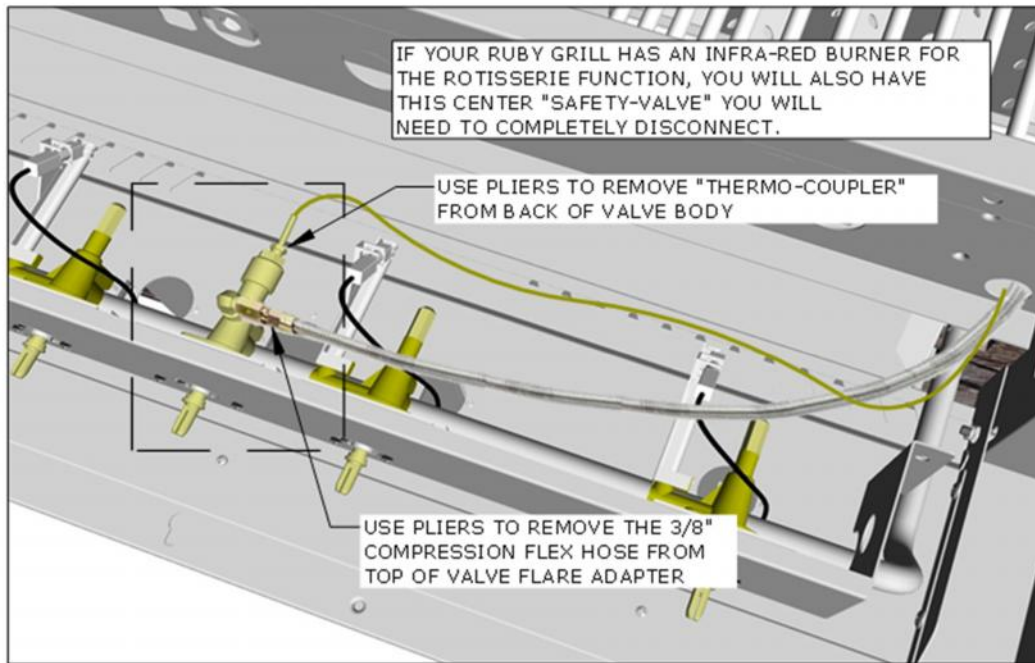
### **2. IDENTIFY COMPONENTS - REMOVE PARTS IF NECESSARY THEN SLIDE VALVE ASSEMBLY OUT**



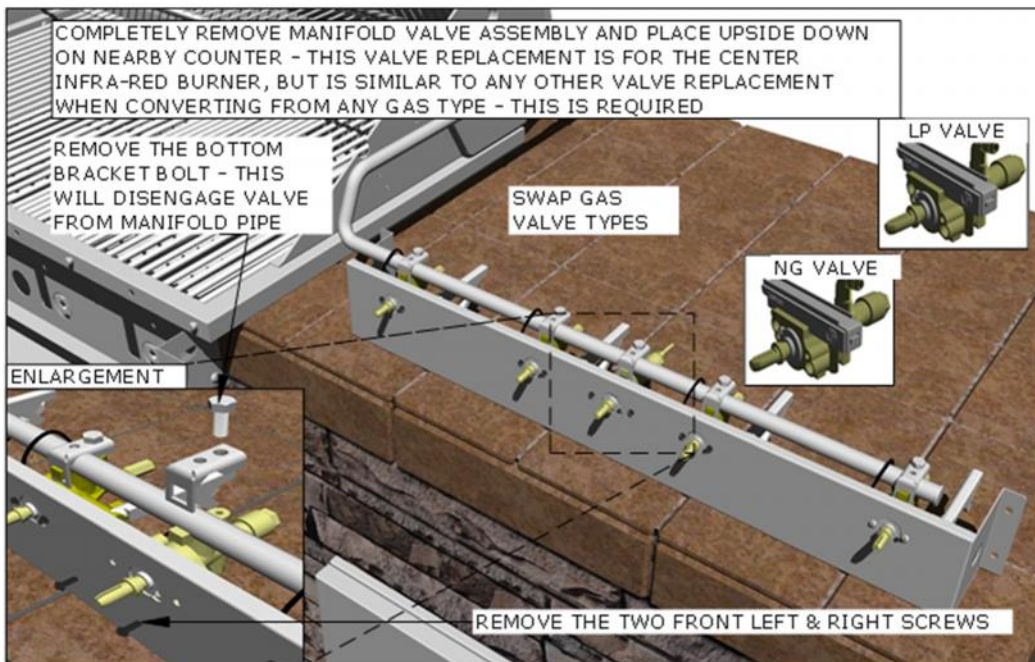
## GAS CONVERSION – Convert Safety Valve

The Following section is for converting your Ruby Grill Safety Valve for **Either LP to NG or NG to LP**, for all grills with an Infra-Red Back Burner. Skip this section if your grill does not have this part.

### **1. REMOVE SAFETY VALVE FLEX HOSE, & BRASS WIRE, "THERMOCOUPLER"**



### **2. REMOVE SAFETY VALVE AND SWAP FOR OTHER GAS TYPE EITHER LP OR NG**





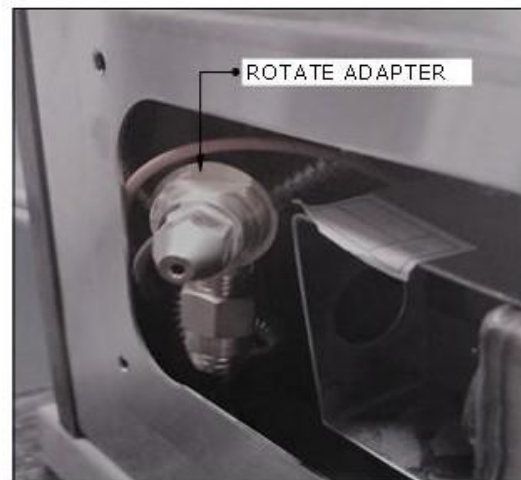
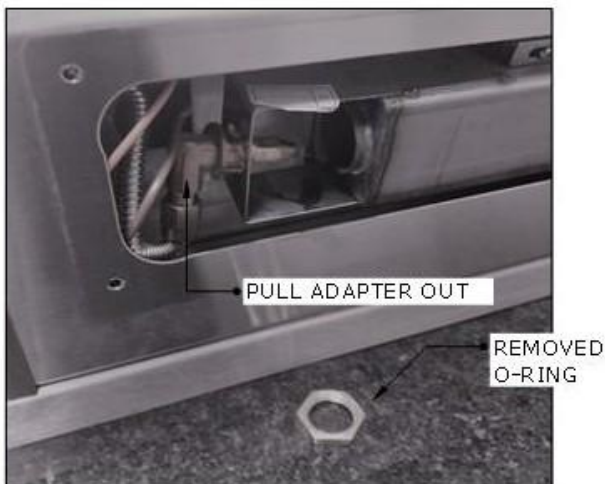
## **GAS CONVERSION – IR Burner Flare Adapter**

The Following section is for converting your Ruby Grill Safety Valve for **Either LP to NG or NG to LP**, for all grills with an Infra-Red Back Burner. Skip this section if your grill does not have this part.

### **3. LOCATE THE PANEL ON THE BACK RIGHT SIDE, REMOVE TO ACCESS IR BURNER FLARE ADAPTER**



### **4. REMOVE BRASS O-RING, THEN PULL OUT ADAPTER & ROTATE OUT REVEALING FLARE**



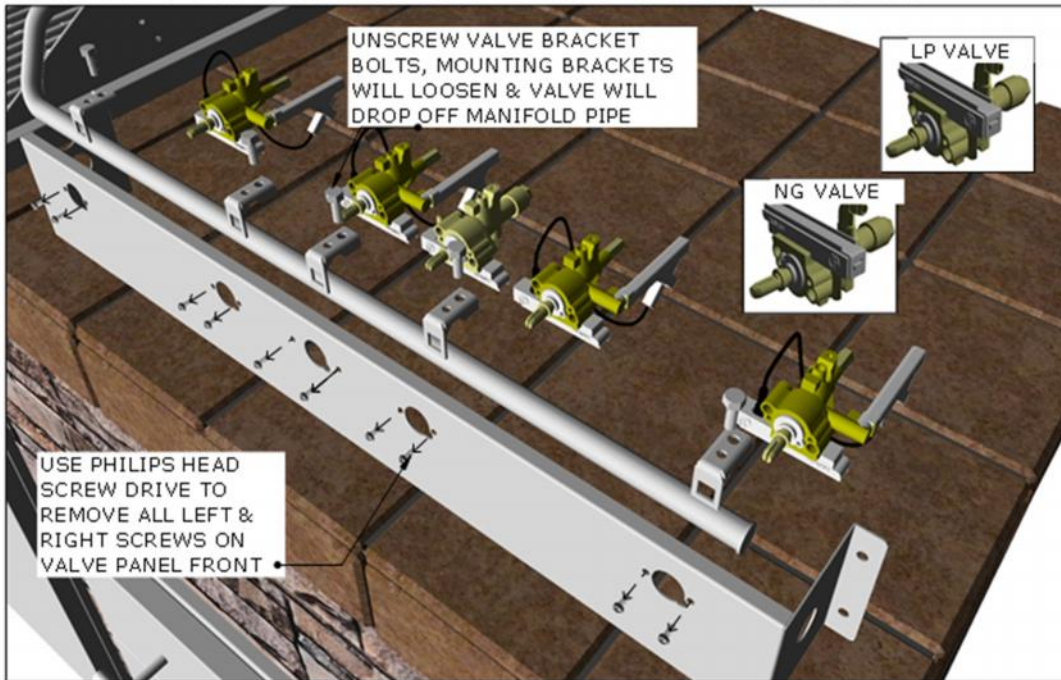
**A. If you are converting from LP to NG, use #50 Drill Bit and drill out the center flare hole making it larger like shown.**

**b. If you are converting from NG to LP, you must remove the Flare and replace with new Flare with smaller Orifice hole for LP.**

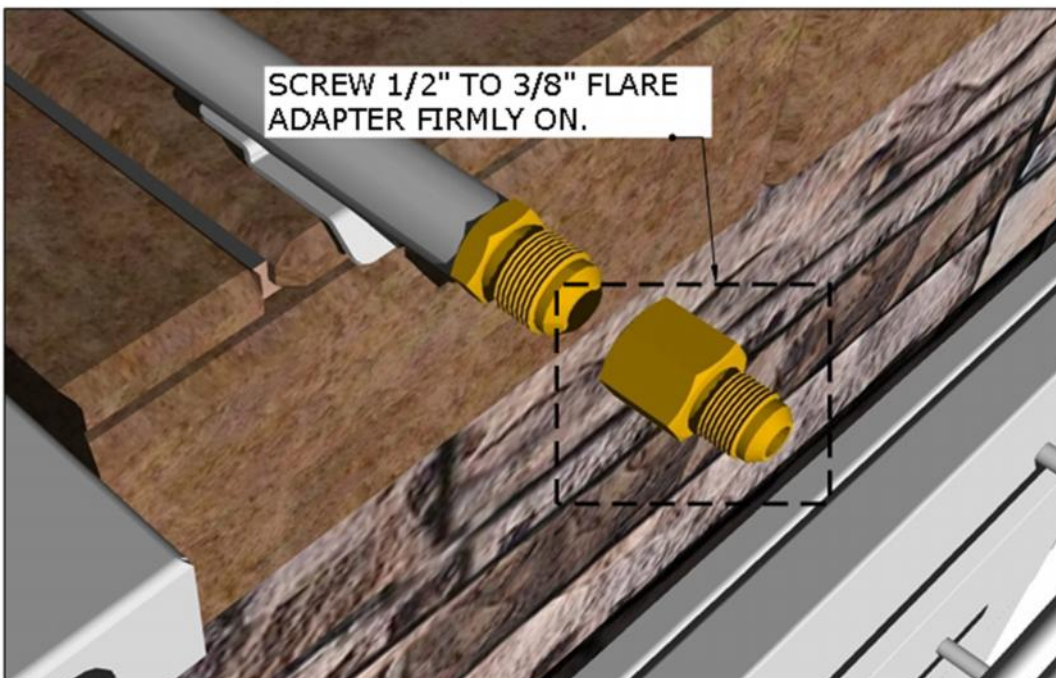
## GAS CONVERSION – Convert NG to LP

The Following section is for converting a Ruby Grill from **Natural Gas to Liquid Propane ONLY**, if you are converting from Liquid Propane to Natural Gas, skip this section and continue onto the next page.

### **1. REMOVE ALL REMAINING VALVES AND SWAP VALVE FOR OTHER GAS TYPE FOR NG TO LP**



### **2. LOCATE CONNECTION AT END OF MAINFOLD PIPE, SCREW ON 1/2" TO 3/8" FLARE ADAPTER**

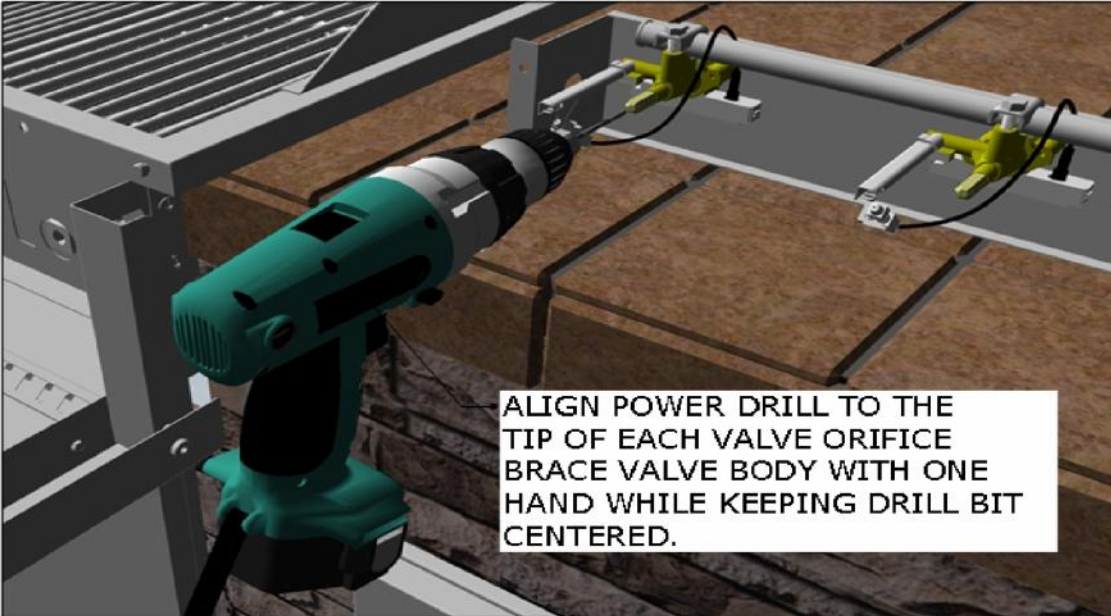




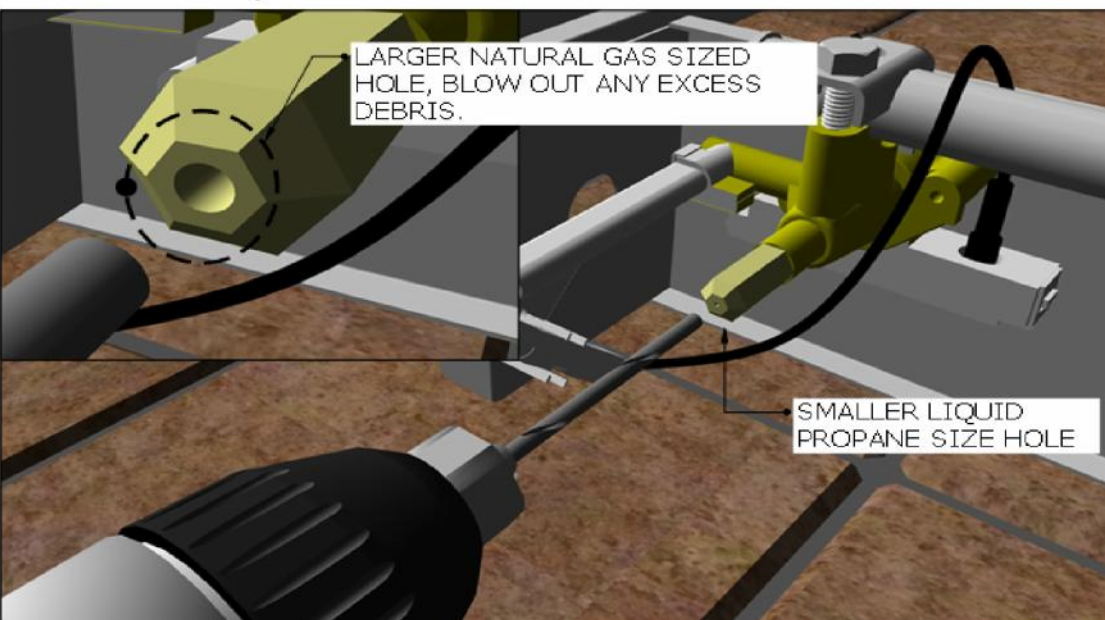
## **GAS CONVERSION – Convert LP to NG**

The Following section is for converting a Ruby Grill from **Liquid Propane to Natural Gas ONLY**, if you are converting from Natural Gas to Liquid Propane, skip this section and refer to page 38.

### **1. USING A #50 SIZE DRILL BIT, DRILL OPEN THE TIP OF EACH VALVE ORIFICE END**

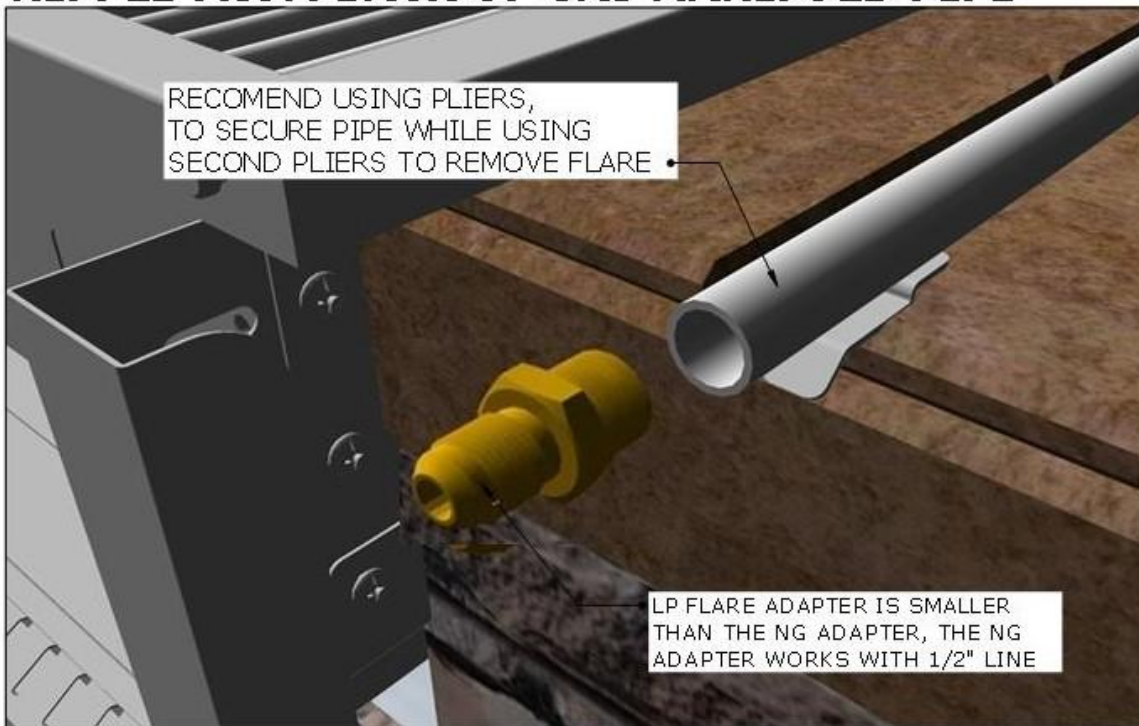


### **2. PAY CLOSE ATTENTION TO NOT OVERDRILL EACH HOLE, BLOW OUT ANY EXCESS DEBRIS**

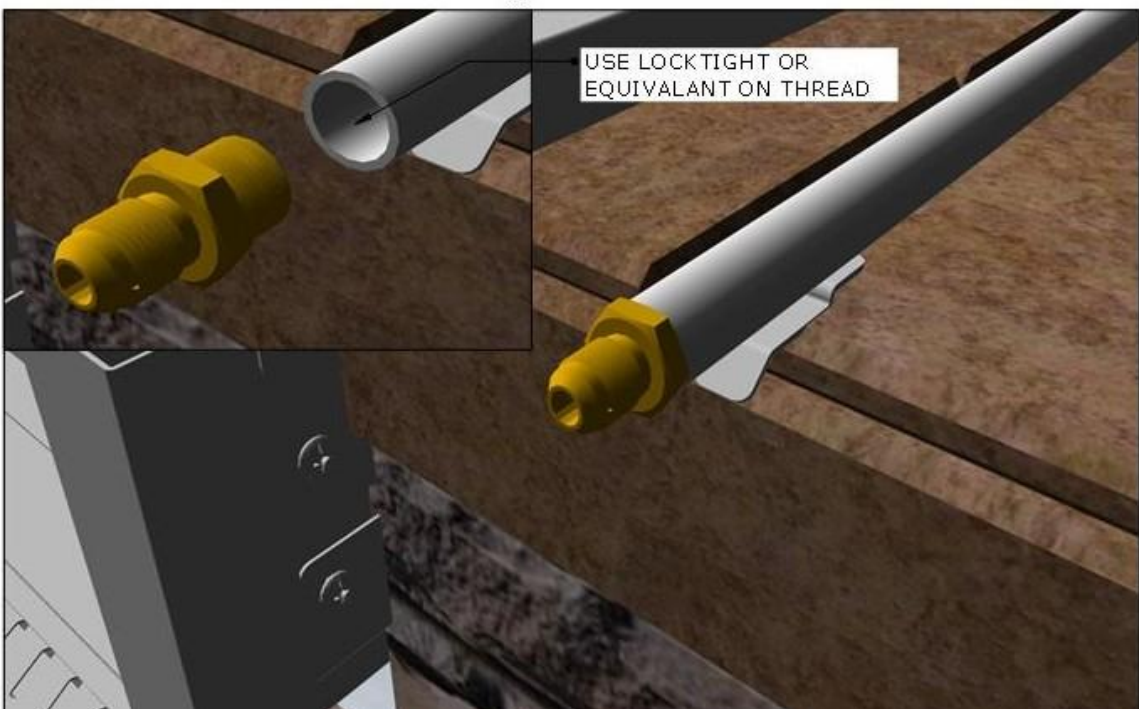


## GAS CONVERSION – Convert LP to NG

### **3. UNSCREW THE CURRENT 3/8" INCH FLARE NIPPLE FROM BACK OF GAS MANIFOLD PIPE**



### **4. REPLACE WITH NEW 1/2" INCH FLARE NIPPLE, USE LOCKTIGHT OR EQUIVELANT**



## GAS CONVERSION – Check List

**Caution:** Never operate the grill unattended.

### FIRST TIME STARTUP CHECKLIST

- ☑ All Valves are securely fastened on!
- ☑ Installation of the proper gas type and regulator settings specific for your new Gas Type!
- ☑ The proper gas connection is complete!
- ☑ Gas Leak Test has been performed!
- ☑ At Least Two Vents have been installed in High Position for Natural Gas and Low Position for Liquid Propane!
- ☑ All parts and components are properly in installed.
- ☑ An installer-supplied manual gas shut-off valve is fully accessible.
- ☑ LP hose is clean and inspected for cuts, wear, abrasion, or leaks. Replace if necessary, with a suitable UL, ETL or CSA Listed part with internally threaded connector.



**WARNING:** If you have a Side Yard Propane Tank, you MUST have additional Medium Pressure Regulator located at the Grill. If you do not serious bodily harm may result or damage to the grill and island structure from HIGH Heat extremes.



**ATTENTION:** Review the Ruby Grills Installation Instructions located inside the Grills Product Manual. Confirm ALL Guidelines are done correctly, All Product Warranties may be VOID if grills installation does not meet minimum setup instructions.