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NOTICE

Dear Customers:

Thank you for choosing our barbeque grill and hope that you enjoy our product.

Our gas valves and components are preset at the factory to operate on Liquid Propane (LP). If you wish to convert your grill from LP to Natural Gas (NG), we strongly recommend that you hire a professionally trained technician to convert the unit. Please understand that we will not be responsible for any liability, personal injury, or property damage resulting from an improperly converted grill.

We will provide warranty parts for this product after it is converted, however, we will not honor any warranty claims for parts damaged during the conversion of the original LP valves and orifices to NG configuration if the conversion is done improperly.

Natural Gas Conversion for Item#881611/Model# 720-0584

NG Conversion Kit for Item # 881611/Model# 720-0584

⚠ WARNING! FAILURE TO HEED THESE WARNINGS COULD RESULT IN A FIRE OR EXPLOSION THAT COULD CAUSE SERIOUS BODILY INJURY, DEATH OR PROPERTY DAMAGE.

Installation of this Natural Gas Conversion kit must be performed by a QUALIFIED GAS TECHNICIAN ONLY. DO NOT ATTEMPT TO INSTALL THIS KIT YOURSELF. Improper installation could result in a gas leak which could cause a fire or explosion and cause serious bodily injury, death or property damage. Leaks due to improper installation could occur immediately or slowly over time. If you hear any unusual noises or leaks, smell gas or unusual odors, or notice anything unusual with the operation of your gas appliance after the installation, immediately shut off the gas supply and discontinue use until the appliance is repaired by a QUALIFIED GAS TECHNICIAN.

If there are damaged or missing parts when you unpack this kit, call 1-800-790-1299. DO NOT have your QUALIFIED GAS TECHNICIAN attempt to install this kit until you receive replacement for any damaged or missing parts.

Orifice Chart

The different burner valves in this grill have different BTU ratings. This means that the amount of gas coming from each orifice varies in order to create the BTU's. The holes in the orifices themselves are drilled to different sizes so as to allow the proper amount of gas to flow through them. Please note the chart below as an easy reference for the various orifice opening sizes for the different valves in the grill.

720/730-0584				
	LP		NG	
Components	Orifice Size	BTU	Orifice Size	BTU
Main Burner	1.12	14,000	1.87	14,000
? Burner	1.08	13,500	1.82	13,500
Searing Side Burner	1.15	15,000	1.95	15,000
Rear Burner	0.94	10,000	1.55	10,000

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Tools required for converting from LP to NG

Below tools are not provide except for **6mm nut driver**, **6.1mm wrench** and allen key



- Philips head Screwdriver (+) is used for removing the screws
- 7mm Nut Driver is used for changing the main tube burner orifice.



- Long, thin flat head Screwdriver (-) is used for turning the Low/High Flame



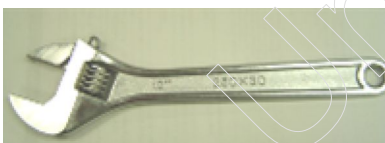
- 14mm Wrench is used for releasing the brass adapter of flex tube
- 10mm Wrench is used for changing the rear burner orifice
- Allen Key is used for removing/installing the control knobs (Included)



- 6.1mm Wrench is used for changing the side sear burner orifice (Included)



- 6mm Nut Driver is used for standing pilot orifice (Included)



- Adjustable Wrench



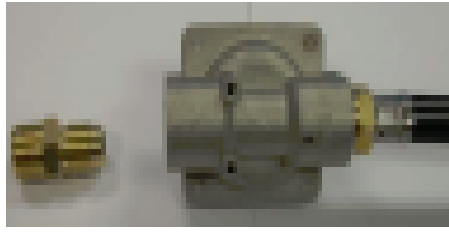
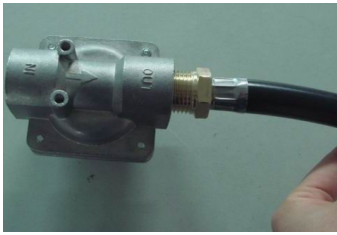
- Rotisserie/Rear Burner Orifice (Included in package)
- Side Searing Burner Orifice (Included in package)
- Rear Burner standard pilot Orifice (Included in package)

Natural Gas Conversion for Item#881611/Model# 720-0584

Warning: Make sure all grill components are completely cool and gas supply is turned off and removed from grill prior to performing the conversion.

NG Hose and Regulator Conversion

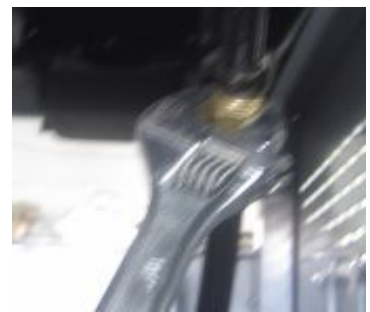
1: Install the regulator hose (short hose) to the end of the regulator marked "OUT". Install the brass connector to the other end of the regulator marked "IN". (If regulator, hose, and brass connector are pre-assembled, you may disregard this step.)



2. Turn all knobs to OFF. Turn off LP gas supply and remove the LP cylinder from the grill cart. Remove the brass adapter of the LP regulator from the manifold with a wrench.



3. Tighten the NG regulator on the NG regulator bracket with two 5/32*10mm screws. Install the NG regulator hose to the manifold and secure using a wrench.



4. Screw the Regulator bracket on the right side panel from outside to inside



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Main Burner Conversion

Steps:

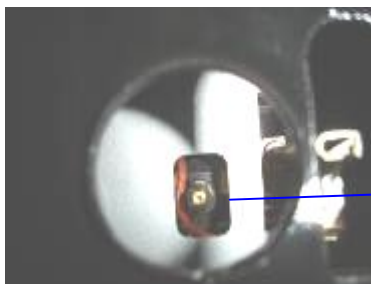
1. Remove the rotisserie kit, warming rack, cooking grids, flame tamers, tube burners and question mark burner from the two fireboxes.



2. Locate the orifice at the end of valve and remove by with adjustable Nut Driver.

The NG orifice is preassembled on the valve, behind the LP orifice.

Remove LP orifice for each of the main burners (total 3 tube burners + 1 question mark burner in small chamber).



3. Replace the tube burners and question mark burner and screw back into original position.



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Searing Side Burner Conversion – Replacement of searing side burner's orifice

The following items are required to convert the searing side burner's orifice.



→ 14mm wrench



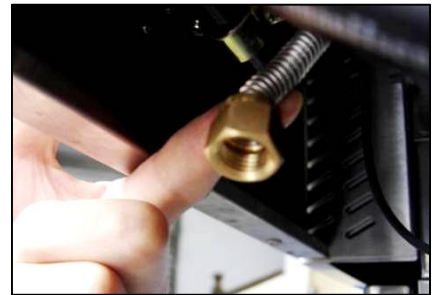
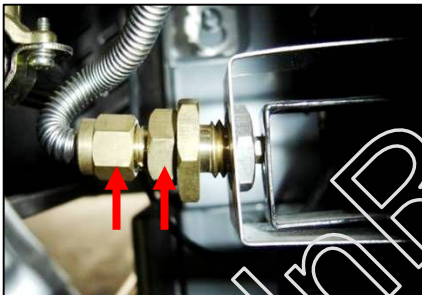
→ Adjustable wrench



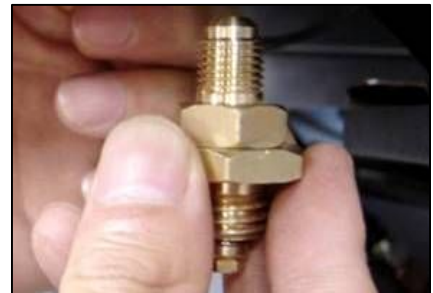
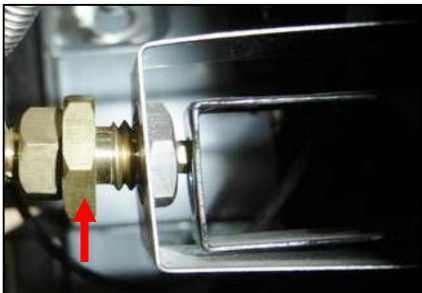
→ Hose connector with NG orifice (provided)

The step-by-step instruction for converting the searing side burner's orifice are stated below.

1. Detach the corrugate hose from the hose connector with 2 wrenches: one wrench (14mm) to unscrew the corrugate hose, and the other wrench to hold the hose connector in place. **CAUTION:** Make sure the corrugate hose does not twist while unscrewing.



2. Detach the hose connector from the bracket with wrench. Replace the original hose connector with the hose connector with NG orifice (provided), and attach it to the bracket.



3. Reconnect the corrugate hose to the new hose connector with 2 wrenches: one wrench (14mm) to screw the corrugate hose, and the other wrench to hold the hose connector in place. **CAUTION:** Apply sealant on the junction of the corrugate hose and the hose connector to prevent gas leakage. Make sure the corrugate hose does not twist while screwing.

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Rear Burner Conversion

In order to change a standing pilot from LP gas use to NG use, you will need to change the orifices of the **standing pilot** and the corresponding **burner**.

Install standing pilot orifice

Steps

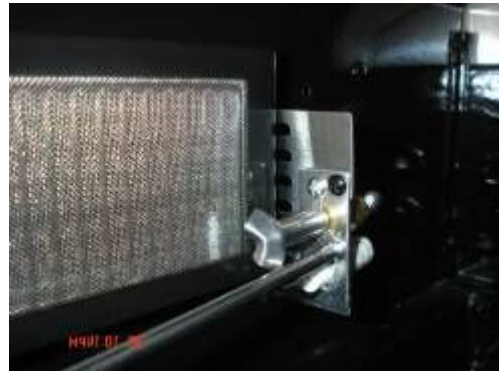
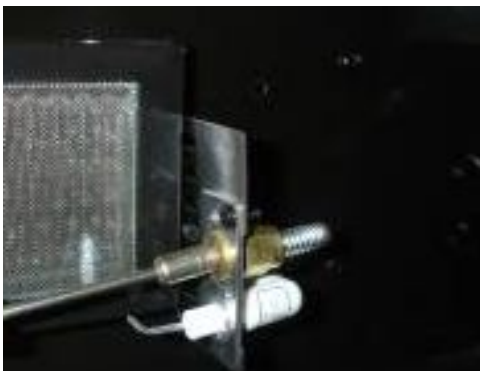
1. The standing pilot cover are secured by 3 screws and nuts. Remove the standing pilot cover located next to the burner.



2. The orifice is located behind the standing pilot tip. Remove the pilot tip by unscrewing the two screws securing the pilot tip to the bracket.



3. Unscrew the LP orifice from the standing pilot with a 6mm nut driver.
Install the Rear Burner NG orifice.
Replace the pilot tip and pilot cover to its original location.



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■ Install burner orifice

Steps:

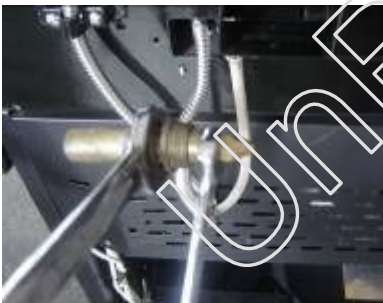
1. Remove the three screws securing the rear baffle from inside the grill. Remove the Rear Baffle from the back of the grill.



2. Unscrew the LP orifice connector and pull the connector out of the retention bracket.



3. Unscrew the LP orifice with two wrenches from the connector—one wrench to hold the orifice connector in place and the other wrench to remove the LP orifice. Take extra pre-cautions to make sure the corrugated tube does not twist. Install the NG orifice and screw into place.



4. Replace the orifice connector into the bracket and secure into place by tightening the nut. Replace rear baffle and screw back into original position.



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For Main Tube Burner and Main Question Mark Burner Conversion Only

(The 3 steps below are not necessary for the Searing Side Burner and Rotisserie Burner)

You will need to adjust the High Flame setting screw when converting the barbecue from Propane to Natural Gas. Please follow the steps as detailed below.

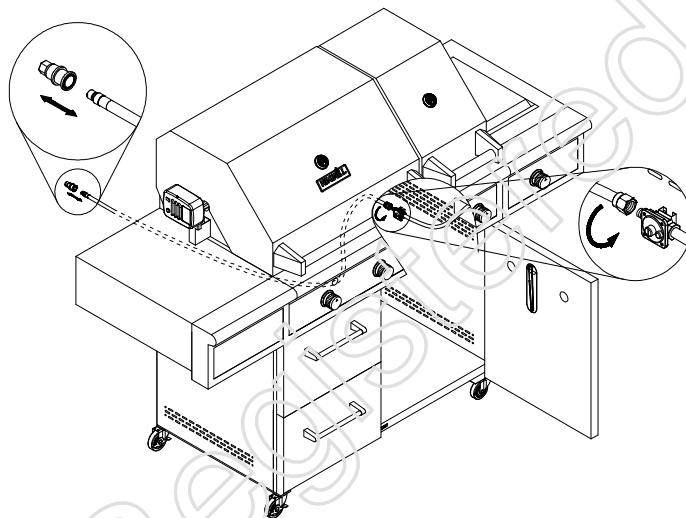
1. Remove each Control Knob of main tube burners and question mark burner by loosening the socket head grub screw with the Allen Key.
2. Use a screwdriver to turn the High Flame Set Screw counterclockwise approximately 90 degree
3. Check that burner operates at the new high fire setting - it may be necessary to adjust the screw setting slightly to get the ideal burner flame height.



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Warning!! Gas Valves are preset at the factory to operate on LP gas or NG gas. If you wish to convert, be sure to consult your gas supplier or trained technician for the conversion.

- A. After the Natural Gas regulator has been installed, attach the PVC Gas hose to the regulator (See drawing below).
- B. Connect the other end of the PVC Gas Hose to the house gas line using the quick-connect fitting. To use the quick connect fitting, lift the head of the connector back. Insert the end of the PVC hose and release the head of the connector. Ensure connection is secure.



There is a brass adapter for natural gas lines that are pre-regulated. If the gas line is not pre-regulated, remove the brass adapter and connect the regulator directly to the PVC gas hose.



Brass connector for pre-regulated gas lines



PVC hose to NG regulator without brass connector

Once conversion is complete, please attach the NG CSA certification sticker to the grill.

If you should have any questions regarding natural gas conversion, please contact customer service at 1-800-790-1299.