

Converting Gas Grills from NG to LP

NG Orifice Kit BBQ08101047

Applies to Cal Flame grills and carts built in 2008 and later



WARNING! You must have an authorized service technician perform this procedure. If these instructions are not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life. Lloyd's Material Supply (L.M.S.) will not be held responsible for an improperly converted gas grill.

There are two steps required to convert a grill from NG to LP.

You must perform both steps.

Step 1: By-passing the regulator behind the grill

Step 2: Changing the burner orifices

The conversion kit provided with your grill may include **some or all** of the parts shown at right, depending on the size and model of your grill.

The kit contains orifices to convert main burners, rear infrared burners, the large infrared burner, and side burners. Your kit will have only the parts you need to convert your grill.

Before you begin, make certain the gas source has been disconnected from the grill.

To gain access to the NG regulator, tilt the grill forward.



1.15 mm orifices for main burners
(three to five pieces)



1.10 mm orifices for side burners
(one to two pieces)



#57 orifice for large infrared burner
(one piece) (for grills made before 2010)



#61 orifice for large infrared burner
(two pieces) (for grills made 2010 and later)



#61 orifices for dual infrared burners
(two pieces)

Step 1: By-pass the regulator behind the grill

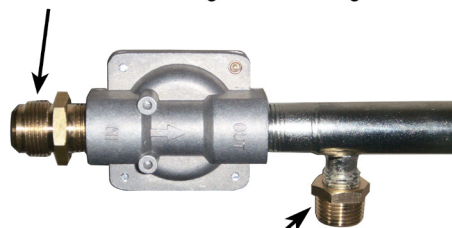
The manifold in the image below has been removed from a grill to illustrate this procedure.

1. Remove the NG gas line.
2. Remove the male flared fitting from the NG gas regulator.
3. Remove the cap fitting from the LP gas inlet.
4. Place the cap fitting in the end of the NG gas regulator.
5. Attach the LP gas line.

You will need:

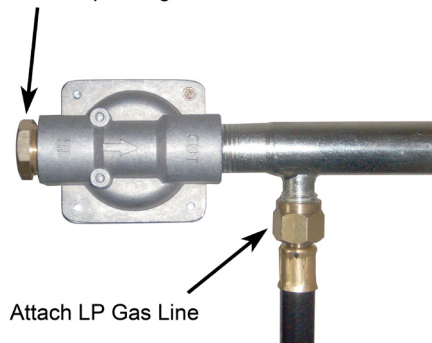
- 13mm open end wrench
- Male flared fitting
(not provided)
- Pipe compound suitable

Remove Flared Fitting From NG Regulator



Remove Fitting From LP Inlet

Insert Cap Fitting



Attach LP Gas Line

Step 2: Changing the burner orifices

1. Replace the infrared burner orifices

- Using a wrench, remove the orifice for the infrared burner.
- Apply pipe compound to the fitting threads where you will place the new orifice.
- Screw on the correct orifice for your grill until it is finger tight.
- Tighten the orifice with the wrench.
- If you have dual infrared burners, repeat the previous steps for the second burner.
- Replace the back cover.

You will need:

- Either a 13mm or 10mm open end wrench
- One #57 orifice (for single infrared burner)
OR
- Two #61 orifices (for dual infrared burners)
OR
- One #61 orifice (for single infrared burner)
- Pipe compound

2. Replace the side burner orifices

- Remove the grate, burner cap and burner diffuser from the side burner.
- Using a 7mm wrench, remove the orifice for the burner.
- Apply a small amount of pipe compound to the orifice threads.
- Screw in the orifice until it is finger tight.
- Tighten the orifice with the 7mm wrench.
- If you have dual side burners, repeat the previous steps for the second burner.

You will need:

- 7mm wrench, socket, or nut driver
- One or two 1.10mm orifices (depending on your side burner)
- Pipe compound

3. Replace the main burner orifices

- Remove the grates, flame tamers, and drip tray from the grill.
- Remove the cotter pins from the end of the burners. The cotter pins are accessible from underneath the grill in the back in the accessory cabinet.
- Carefully remove the burner.
- Using a 6mm socket or nut driver, remove the orifice for the burner.
- Apply a small amount of pipe compound to the orifice threads.
- Screw in the orifice until it is finger tight.
- Tighten the orifice with the 6mm wrench.
- Repeat the above steps for the remaining burners.
- Replace the burners, flame tamers, drip tray, and grates.

You will need:

- 6mm socket or nut driver
- Three to five 1.15mm orifices (depending on your grill)
- Pipe compound

4. Mark the rating plate

After conversion has been completed, mark the rating plate as LP with an indelible marker.



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