

Converting Gas Grills from LP to NG

NG Orifice Kit BBQ07101045

Applies to Cal Flame grills and carts built in 2007 and earlier

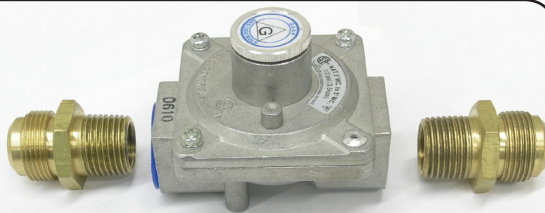


WARNING! You must have an authorized service technician perform this procedure. If these instructions are not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life. Lloyd's Material Supply (L.M.S.) will not be held responsible for an improperly converted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

This procedure describes how to convert a grill from liquid propane (LP) to natural gas (NG).

Conversion kit includes:

- 1 - NG regulator
- 2 - Flared fittings



- 5 - 1.9 mm orifices (main burners)
- 2 - #54 orifices (dual infrared burners)
(5 & 3 burner grills)



- 2 - 1.75 mm orifices (side burners)
- 1 - #50 orifice (large infrared burner)
(4 burner grill)



You will need some or all of the fittings (depending on the size of the grill) and the regulator contained in the conversion kit (P/N BBQ07101045). The conversion kit contains orifices to convert five main burners, two small rear infrared burners, one large infrared burner, and two side burners. You will not need all of the parts in the kit.

Before you begin, make certain the LP gas source has been disconnected from the grill. You will need to remove the grill from the cart or barbecue island.

Step 1. Replace the infrared burner orifices

- a. Unscrew the screws for the back cover and remove it.
- b. Using a 13mm wrench, remove the orifice for the infrared burner.
- c. Apply pipe compound to the fitting threads where you will place the new orifice.
- d. Screw on the correct orifice for your grill until it is finger tight.
- e. Tighten the orifice with the 13mm wrench.
- f. If you have dual infrared burners, repeat the previous steps for the second burner.
- g. Replace the back cover.

You will need:

- 13mm open end wrench
- One #50 orifice (for single infrared burner)
- Two #54 orifices (for dual infrared burners)
- Pipe compound

Step 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 1.75mm orifices (depending on your side burner)
- Pipe compound

Step 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, cotter pins, flame tamers, drip tray, and grates.

You will need:

- 6mm socket or nut driver
- Two to five 1.9mm orifices (depending on your grill)
- Pipe compound

Step 4. Install the natural gas regulator

The fitting and flex tubing you will attach the regulator to is located beneath the grill in the accessory cabinet.

- Apply pipe compound to the non-flared side of the 1/2" brass fitting and screw it into the downstream end of the NG regulator (the end marked OUT on the bottom of the regulator).
- Using a 24mm wrench, tighten the fitting until it is snug. Do not over tighten it.
- Attach the fitting at the end of the flex tubing to the flared end of the 1/2" brass fitting.

You will need:

- 24mm wrench
- Natural gas regulator
- 1/2" brass flared fitting
- Pipe compound

Note: The regulator does not need to be attached to frame. No attaching screws are necessary and are not provided.

Step 5. Apply the sticker

After conversion has been completed, apply the enclosed sticker to the rating plate. The sticker reads "This unit has been converted from LP to NG."



LTR07101045, Rev. A 7/16/10