

# Fontana Forni USA: GAS SMOKER OVEN

Margherita & Mangiafuoco Model

## NATURAL GAS CONVERSION KIT

(Part No. FTNGK)  
For FTMARG & FTMFG Models

All gas connections must be made by a competent qualified service technician and in accordance with local codes and ordinances. In the absence of local codes, the installation must comply with the National Fuel Gas Code (NFPA 54/ANSI Z223.1).

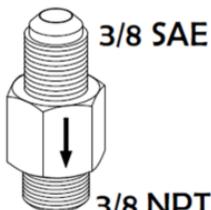
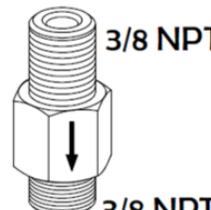
Before beginning conversion, make sure all parts are present. Compare parts with package contents. If any part is missing or damaged, do not attempt to convert. Contact your appliance dealer for replacement parts.

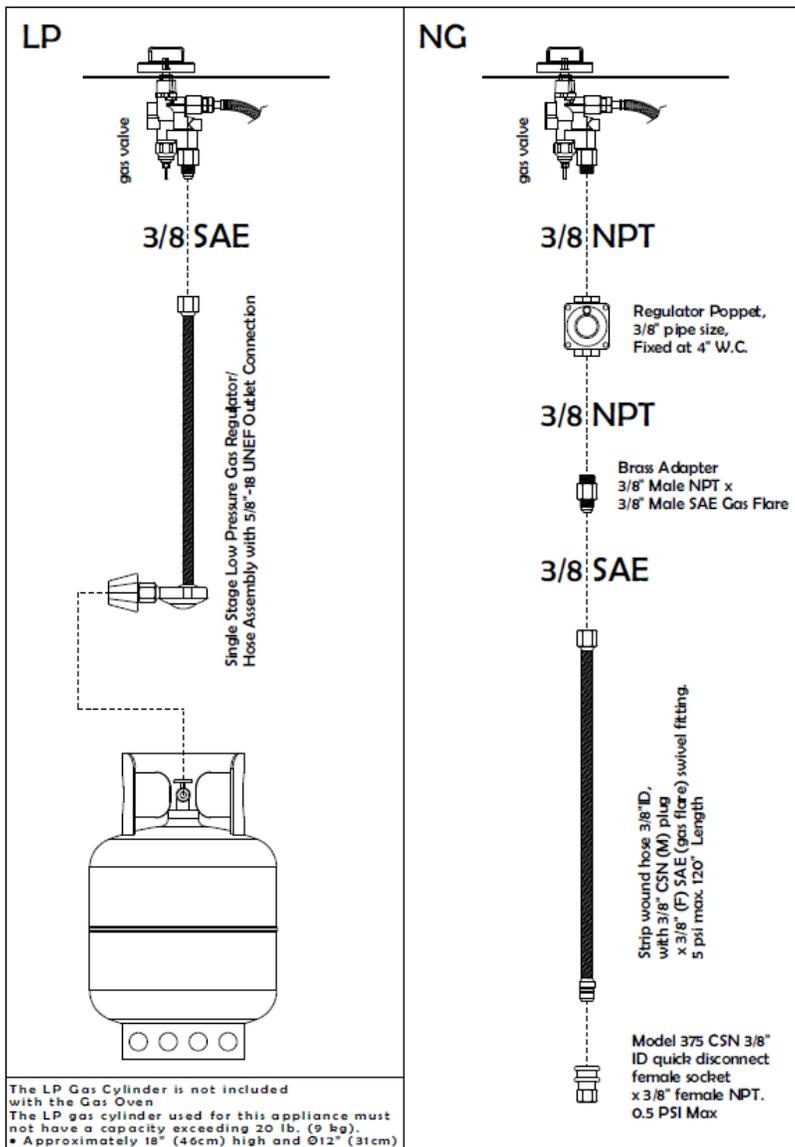
### PARTS LIST:

The following parts are included in the "Natural Gas Conversion Kit" and are not included with the appliance.

Item	Description	# Required
1	2.80mm Orifice	1
2	Fixed Regulator	1
3	3/8" Male-Male NPT Fitting	1
4	Female-Female Quick Disconnect Fitting	1
5	10' Flexible Hose	1
6	3/8" SAE x 3/8" NPT Adapter	1
7	Teflon Tape	1 Roll

Two adjustable wrenches (not included) will be needed to convert the appliance from LP to NG.

	LP (standard)	NG conversion kit (optional)
(A)	 <p>3/8 SAE 3/8 NPT</p> <p>[code "KG018_00"]</p>	 <p>3/8 NPT 3/8 NPT</p> <p>[code "KG019_00"]</p>
(B)	 <p>M13x1 Ø1.8mm</p> <p>[code "KG016_00"]</p>	 <p>M13x1 Ø2.8mm</p> <p>[code "KG031_00"]</p>



### **⚠ WARNING**

#### **FIRE, EXPLOSION, AND CARBON-MONOXIDE HAZARD**

If the information in these instructions is not followed exactly, a fire, explosion, or production of carbon monoxide may result causing property damage, personal injury, or loss of life.

This conversion kit shall be installed by a qualified agency in accordance with the appliance manufacturer's instructions and all applicable codes and requirements of the Authority Having Jurisdiction. The qualified agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

### **⚠ ATTENTION**

#### **INCENDIE, EXPLOSION ET RISQUE DE MONOXYDE DE CARBONE**

Si les informations contenues dans ces instructions ne sont pas suivies exactement, un incendie, une explosion ou une production de monoxyde de carbone peut entraîner des dommages à la propriété, des blessures ou des pertes de vie.

Ce kit de conversion doit être installé par un agencement qualifié conformément à instructions du fabricant de l'appareil et tous codes applicables et exigences de l'Autorité ayant compétence. L'agence qualifiée est responsable de l'installation correcte de ce kit. L'installation n'est pas correcte et complète jusqu'à l'opération du converti appareil est vérifié comme spécifié dans les instructions du fabricant fournies avec le kit.

# NATURAL GAS CONVERSION

## PREPARATION FOR NG CONVERSION:

1. Turn off gas supply, and then remove cap on gas supply line.
2. **REQUIRED:** An authorized technician must install a gas shutoff valve easily accessible to the appliance in accordance with the local codes. In the absence of local codes, the installation must comply with the National Fuel Gas Code (NFPA 54/ANSI Z223.1).
3. Converting your Fontana Forni USA: Gas Smoker Oven is best done with the support legs installed. Then, remove the support legs after conversion is completed if desired for final installation.

## NATURAL GAS CONVERSION:

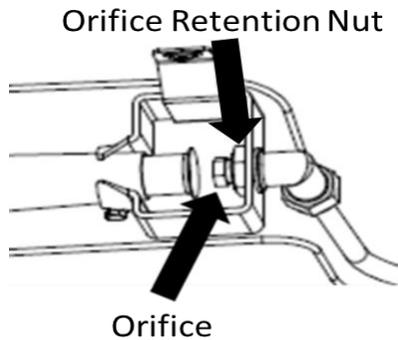


**WARNING:** Before the conversion, make sure control knob is in the OFF position, propane (LP) tank valve is closed, and the tank is disconnected from regulator and removed to a safe place away from the appliance. Ensure the appliance is secured before working on it.

## NG Input Rate: 36,000 BTU/hr.

### ORIFICE:

1. Locate the LP orifice (1.75mm) on the underside of the unit.



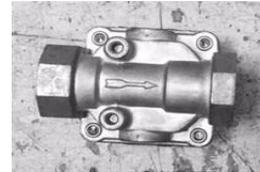
2. Remove the LP orifice by using an adjustable wrench to turn the orifice counter-clockwise. Ensure to use a backup adjustable wrench on the orifice retention nut while un-tightening the LP orifice.
3. Locate the natural gas (NG) orifice (2.80mm) inside the conversion kit.
4. Thread the NG orifice by hand into the orifice holder until it is hand tight.
5. Use an adjustable wrench to tighten the NG orifice. Ensure to use a backup adjustable wrench on the orifice retention nut while tightening.

### REMOVING LP REGULATOR & HOSE ASSEMBLY:

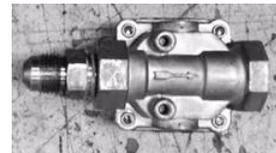
1. Locate the LP regulator and hose assembly underneath the unit.
2. Follow the hose towards the gas valve to locate the gas fitting connecting the two.
3. Using an adjustable wrench, untighten the gas fitting while backing up the gas valve with a second adjustable wrench.

## INSTALLING NG REGULATOR:

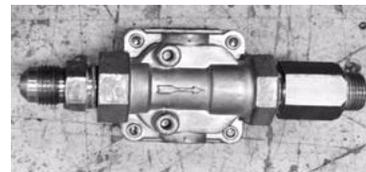
1. Locate the NG fixed regulator, Teflon tape, 3/8"-24 x 3/8" NPT adapter, and 3/8" male flare fitting supplied in the conversion kit.
2. Apply Teflon tape per manufacturer's instructions to the NPT thread of the male flare fitting.
3. Flip the NG regulator over and examine the regulator for a gas flow direction arrow. The side where the arrow terminates is the outlet of the gas regulator.



4. Hand thread the non-flared end of the 3/8" male flare fitting, with Teflon tape applied, into the inlet of the gas regulator until hand tight.



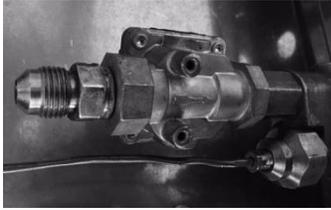
5. Using an adjustable wrench, finish tightening the 3/8" flare fitting into the gas regulator. Ensure to use a second adjustable wrench to back up the gas regulator.
6. Apply Teflon tape per manufacturer's instructions to the open threads on the 3/8"-24 x 3/8" NPT adapter.
7. Using an adjustable wrench, finish tightening the 3/8"-24 x 3/8" NPT adapter into the regulator. Ensure to use a second adjustable wrench to back up the gas regulator.



8. Apply Teflon tape per manufacturer's instructions to

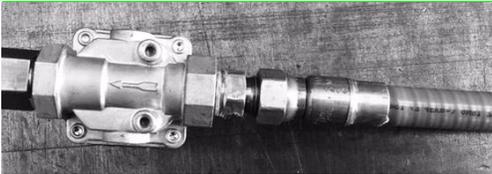
the open threads on the 3/8"-24 x 3/8" NPT adapter.

9. Locate the open end of the gas valve underneath the unit.
10. Hand thread the regulator into the open end of the gas valve until hand tight. Ensure that the arrow terminates towards the direction of the valve.
11. Using an adjustable wrench, finish tightening the regulator into the gas valve. Ensure to back up the gas valve with a second adjustable wrench.



## INSTALLING NG FLEX HOSE:

1. Locate the 10' flex hose and with quick disconnection supplied in the conversion kit. Teflon tape will not be required for this connection.
2. Locate the exposed flare fitting of the NG regulator underneath the unit.
3. Hand thread the female flare fitting side of 10' flex hose side onto the exposed male flare fitting.
4. Using an adjustable wrench, finish tightening the female flare fitting onto the male flare fitting. Ensure to use a second adjustable wrench to back up the male flare fitting.



5. Locate the NG supply with gas shutoff valve already installed by an authorized technician. **CONTACT A LICENSED PLUMBING CONTRACTOR TO PERFORM THIS CONNECTION.**
6. Apply Teflon tape per manufacturer's instructions to the exposed threads of the gas shutoff valve.
7. Hand thread the female NPT quick disconnect fitting on the exposed threads of the gas shutoff valve until hand tight.
8. Using an adjustable wrench, finish tightening the female quick disconnect fitting onto the gas shutoff valve. **ENSURE TO BACK UP THE GAS SHUTOFF VALVE.**
9. Take the male quick connection of the 10' flex hose and install it into the female quick connection located on the gas shutoff valve.

## PERFORM LEAK CHECK:

### AS A SAFETY PRECAUTION:

- Test all fittings for leaks before using your appliance.
- Test for leaks every time you connect/re-connect a gas fitting or line.

- Do not smoke at any time while testing.
- Never test for leaks with a lit match or open flame.
- Test for leaks outdoors.
- If a leak persists, contact your gas appliance dealer for assistance. Do not attempt to operate appliance if a leak is present.

### NATURAL GAS PRESSURE AND ADJUSTMENT

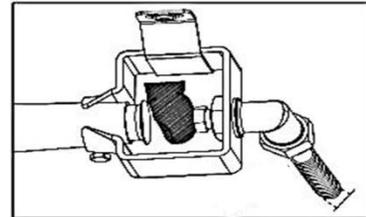
- Refer to the data plate located on the oven for the manifold pressure required for Natural Gas (NG)
- The Natural Gas regulator is set by the manufacturer and is not to be adjusted.

### TO TEST FOR LEAKS BETWEEN THE NATURAL GAS SUPPLY AND GAS VALVE:

1. Extinguish any open flame or cigarettes in the area.
2. Be sure gas supply and appliance valves are "OFF."
3. Prepare a soap solution of one part water, one part liquid detergent.
4. Brush the soap solution on each connection.
5. Slowly open the natural gas supply valve.
6. A leak is identified by a flow of bubbles from the area of the leak.
7. If a leak is detected, close the natural gas supply valve, tighten the connection and retest.

### TO TEST FOR LEAKS BETWEEN THE ORIFICE AND GAS VALVE:

1. Follow steps 1 - 5 from the previous section.
2. Place fingertip over the opening in the orifice.



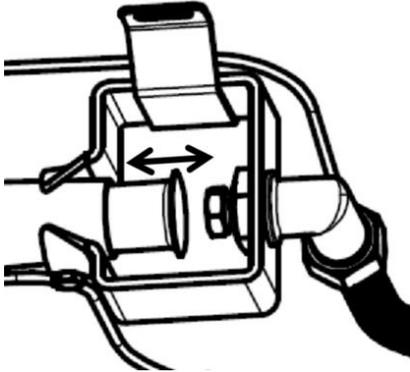
3. Turn and hold burner control knob at "HIGH."
4. A leak is identified by a flow of bubbles from the area of the leak.
5. If a leak is detected, turn burner control knob to "OFF", tighten the connection and retest.
6. When finished, return burner control knob to "OFF".

### IF THE GAS SUPPLY SYSTEM IS PRESSURE TESTED:

1. The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5 kPa).
2. The appliance 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 psi (3.5 kPa).
3. The Inlet gas pressure should be between 6.0" – 8.0" w.c.

## FLAME CHECK & ADJUSTMENT:

1. After performing a leak check, follow the lighting instructions on the grill to light the burner on "HIGH".  
Note: Air could still be present in gas line after converting to NG. It might take multiple attempts to light.
2. All burner ports should show a 4 ½" (11.43cm) flame on "HIGH". If flames are lazy yellow or lifting off burner, adjust air shutter until the flames are mostly blue and are not lifting.



3. After the flames on "HIGH" have been adjusted if needed, turn the gas valve to the "LOW". The flames at the "LOW" setting should be 1 ½" (3.81cm). If not, adjust the "minimum flow screw" on the gas valve until the flames are 1 ½" (3.81cm).

## AFTER CONVERSION:

Once the gas smoker oven has been converted to Natural Gas it is the responsibility of the individual or agency performing the conversion too mark the data plate with the below information.

- Date (day-month- year) of the conversion
- The gas the oven is being converted to
- Name and address of organization making this conversion

All markings should be done in permanent marker and legible.

Congratulations! Your Fontana Forni USA gas smoker oven is now converted to be used with NG. Please see your owner's manual for proper operation and maintenance.