

Instructions for Converting Range to Operate on Liquefied Petroleum Gas

INSTALLATION AND SERVICES MUST BE PERFORMED BY A QUALIFIED INSTALLER
IMPORTANT: SAVE INSTRUCTION MANUAL FOR THE LOCAL INSPECTOR'S USE.
READ AND SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

⚠ WARNING This conversion kit must be installed by a qualified service technician in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. Failure to follow instructions may result in fire, explosion or production of carbon monoxide causing property damage, personal injury or loss of life. The qualified service 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 this kit.

⚠ WARNING Before proceeding with the conversion, shut off the gas supply before disconnecting electrical power to the range. Be sure power supplies are off before installing the conversion kit. Failure to do so could cause serious bodily injury.

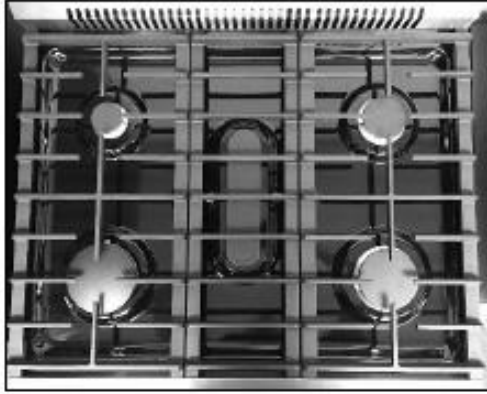
Determine the combination of top burners that are featured on your range. Identify the parts you need from this kit to complete the L.P. conversion. When burners are converted from natural to L.P. the BTU ratings are as follows: Note: For operation at elevations above 2000ft., appliance rating shall be reduced at the rate of 4% for each 1000 ft. above sea level.

	Top Burner					Simmer burner	Griddle Burner	Oven Burner		Broil Burner		Bypass Jet
	18000	9000	8000	6000	4000					18500	10000	
BTU	18000	9000	8000	6000	4000			18500		10000		
Orifice Size(mm)	1.22/ 1.24	0.88/ 0.86	0.84/ 0.81	0.72/ 0.76	0.62/ 0.63			1.24		0.9		
LRG3001U	1	1	1	1	1	NA	NA	1	NA	1	NA	0



Top: Orifice for Oven Broiler Burner / Oven Burner
 Bottom: 4000BTU/6000BTU/8000BTU/9000BTU/18000BTU Top Burner Orifice

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BURNER PERFORMANCE

Number of Burners	5 Burners
Front Left	18,000 BTU Single Burner
Front Right	8,000 BTU Single Burner
Center	9,000 BTU Oval Burner
Rear Left	4,000 BTU Single Burner
Rear Right	6,000 BTU Single Burner

OVEN PERFORMANCE

Oven Capacity	4.55 Cu. Ft.
Oven Tube Burner BTU	18,500
Oven Broil Burner BTU	10,000

IMPORTANT: After replacing the natural gas to LP orifices, be sure to keep the original factory installed natural gas orifices for future range conversion back to natural gas.

Tools for LP Conversion

7mm Tool – Top Burner Orifice Replacement

Flat Screw Driver ϕ 2.0*130 (Not Available with the LP Conversion Kit Package) – Bypass Adjustment

Adjustable Wrench *2 (Not Available with the LP Conversion Kit Package) – Orifice Adjustment

****IMPORTANT****

18000 BTU Single Burner

Burner Orifice for LP 1.24mm/1.22mm

9000 BTU Single Burner

Burner Orifice for LP 0.88mm/0.86mm

8000 BTU Single Burner

Burner Orifice for LP 0.84mm/0.81mm

6000 BTU Single Burner

Burner Orifice for LP 0.72mm/0.76mm

4000 BTU Single Burner

Burner Orifice for LP 0.62mm/0.63mm

10000BTU Broiler Orifice for LP 0.9mm

18500BTU Bake Orifice for LP 1.24mm

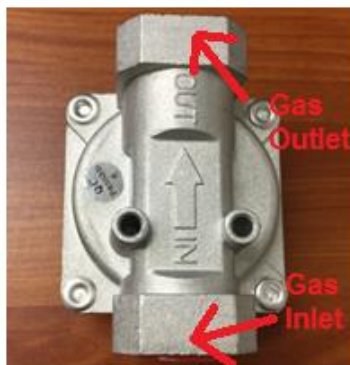
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1. Convert the Pressure Regulator

For 30-inch Gas Range, you could find your regulator on the back left of the range's back panel.



****IMPORTANT**** Pay attention that the NG and LP are in different direction. All the gas ranges are initially designed with NG position, please have it changed in to LP position.



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LP Position: Plastic Ring is away from the Cap



NG Position: Plastic Ring is next to the Cap

2. Convert Top Burner for LP/ Propane Gas

Save the natural gas orifices removed from the appliance for possible future conversions to natural gas. **You should rely on the following process when converting unit back to Nature gas.** Take extra care when handling orifice parts, making sure the orifice is not

- a. Remove top grates, burner caps and inner burner rings.
- b. Lift off outer burner heads and burner bases.
- c. Remove the factory installed natural gas orifices from the center of the orifice holders using a 7mm nut driver

Remember to keep the original natural gas orifices for future conversions back to natural gas.

“IMPORTANT” to identify their markings.

- c.1. Replace the 18000BTU burner orifice in each with orifice size **1.22/1.24mm** (they are both working fine with the LP 18000BTU burner).
- c.2 Replace the 9000BTU burner orifice in each with orifice size **0.86/0.88mm** (they are both working fine with the LP 9000BTU burner). Please remember not to over tighten the orifice and keep the orifice clean.
- c.3 Replace the 8000BTU burner orifice in each with orifice size **0.81/0.84mm** (they are both working fine with the LP 8000BTU burner). Please remember not to over tighten the orifice and keep the orifice clean.
- c.4 Replace the 6000BTU burner orifice in each with orifice size **0.72/0.76mm** (they are both working fine with the LP 6000BTU burner). Please remember not to over tighten the orifice and keep the orifice clean.
- c.5 Replace the 4000BTU burner orifice in each with orifice size **0.62/0.63mm** (they are both working fine with the LP 4000BTU burner). Please remember not to over tighten the orifice and keep the orifice clean.

Put the burner flame ring back to the main burner bases. Put back the inner burner rings, burner caps and grates.

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****There are two types of LRG3001U design and the layout and the location of the bake/broil orifice are different. Check your serial number on the bottom of back panel to proceed the following conversion procedures.****



For Serial Number from LRG3001U00001- LRG3001U00425

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3. Convert Oven Bake Burner Orifice for LP/Propane Gas

(Serial Number LRG3001U00001- LRG3001U00425)

- a. Remove all the screws on the back panel, then take out the back panel. The Bake Orifice is located on the bottom right of the back of the range;
- b. Remove the orifice using an adjustable wrench. There's an aluminum pipe connecting safety valve and orifice, be careful so that you won't break the pipe.
- c. Use adjustable wrench to lose the **orifice nut** with the orifice, then screw out the **screws on the bracket** so that you could get access to the orifice, at last screw out the **orifice** and replace with the LP Bake Orifice (1.24mm).

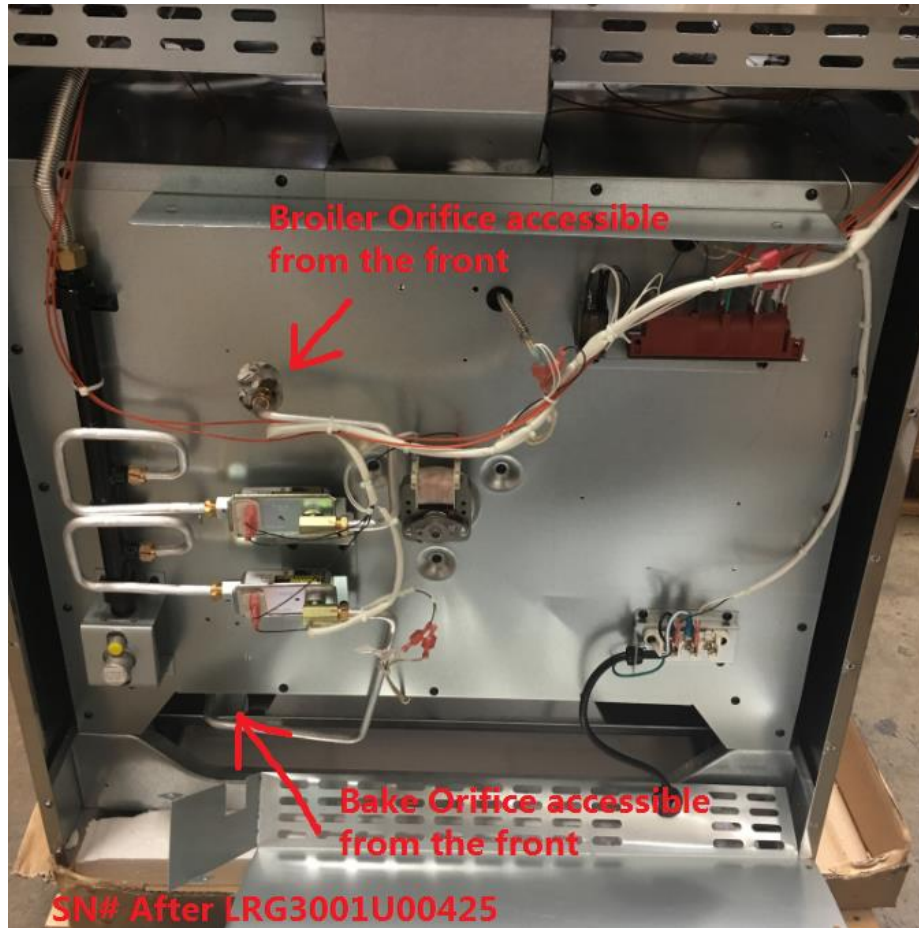


4. Convert Broiler Burner Orifice, please follow the next several steps:

(Serial Number LRG3001U00001- LRG3001U00425)

- a. Remove all the screws on the back panel, then take out the back panel. The Bake Orifice is located on the bottom right of the back of the range;
- b. Remove the orifice using an adjustable wrench. There's an "S" size aluminum pipe connecting safety valve and orifice, be careful so that you won't break the pipe.
- c. Use adjustable wrench to lose the **orifice nut** with the orifice, then screw out the **screws on the bracket** so that you could get access to the orifice, at last screw out the **orifice** and replace with the LP Broiler Orifice (0.9mm).

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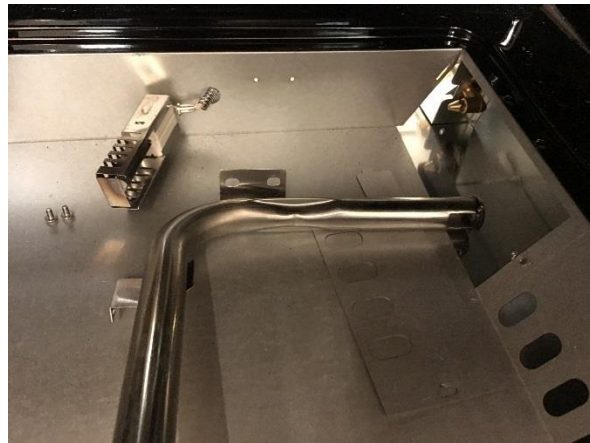
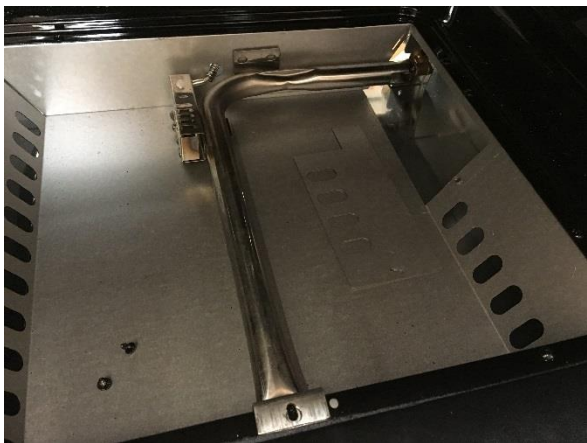


For Serial Number after LRG3001U00425 (No need to replace the

3*. Convert Oven Bake Burner Orifice for LP/Propane Gas

(Serial Number After LRG3001U00425)

a. The Back panel is not needed to be take out, bake orifice will be exchanged from the front of the unit.



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- b. Take out the door of the range, and then take out the oven rack and the oven floor cover. Locate the bake burner (L-shape burner) on the bottom of the unit. Screw out the two screws on the back of the bake burner, and one on the front. Screw out the two screws connecting the bake ignitor to the bake burner;
- c. You will then see the orifice coming into the bake burner. Remove the orifice using an adjustable wrench. There's an aluminum pipe connecting safety valve and orifice, be careful so that you won't break the pipe.
- d. Use adjustable wrench to lose the **orifice nut** with the orifice, then screw out the **screws on the bracket** so that you could get access to the orifice, at last screw out the **orifice** and replace with the LP Bake Orifice (1.24mm).
- e. **Make sure the bake burner it put back correctly. Make sure the orifice must be dead center of the burner or it will create a vortex.**

4*. Covert Broil Burner Orifice



a. Broiler Burner is connected to Flame Tamer; b. Two screws on the back holding the burner to back oven panel;



c. One screw on the front holding the broiler burner; d. Lose the four screws on flame tamer to get access to broiler orifice.

- a. The Back panel is not needed to be take out, broiler orifice will be exchanged from the front of the unit.
- b. Locate the screws connecting the top broiler L-shape burner, there're two on the oven back panel and on the front of the broiler L-shape burner. Take out these three screws, hold the broiler burner to make

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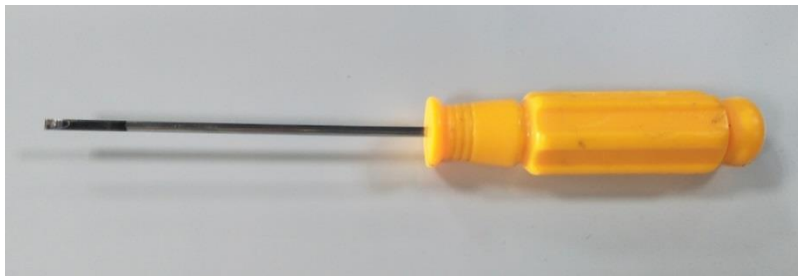
sure it's not falling. Screw out the four screws holding the flame tamer so that the burner could be taken out and the broiler orifice is accessible.

c. You will then see the orifice coming into the bake burner. Remove the orifice using an adjustable wrench. There's an aluminum pipe connecting safety valve and orifice, be careful so that you won't break the pipe.

d. Use adjustable wrench to lose the orifice nut with the orifice, then screw out the screws on the bracket so that you could get access to the orifice, at last screw out the orifice and replace with the LP Bake Orifice (0.9mm).

e. **Make sure the bake burner it put back correctly. Make sure the orifice must be dead center of the burner or it will create a vortex.**

5. Convert Burner Valves for LP/Propane Gas



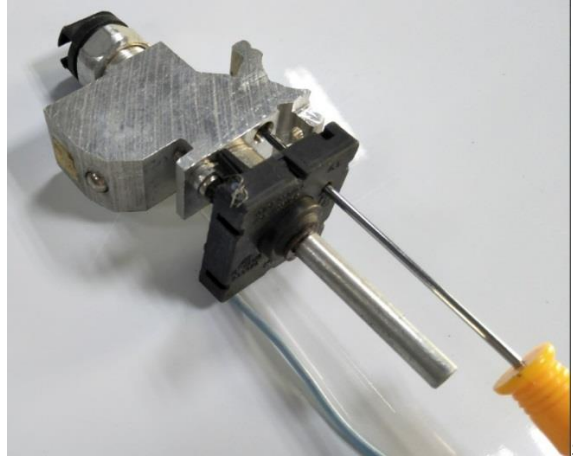
One 5/64" flat screw driver is needed for the Bypass Adjustment on Buner Valve (**Not included in LPK Package**),

a. Please take out the top burner knobs and take out the bezel and the screws on the bezel so that we could get access to the burner valve part. You could get access to the burner valve part.



There's a hole on the micro-switch (the black part) so that the screw driver could go across the micro-switch and reach the bypass orifice on the burner valve. Bypass orifice could help to control the flame.

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b. Put the knob back, adjust the flame by rotating the knob. The original location of bypass is for NG. If converted to LP, the bypass needs to be screwed in (in **clockwise direction**) to **tightest position**.

Originally, the Bypass is located at NG Position and it's not screwed to the bottom (tightest)

For LP conversion of bypass, not bypass orifice needs to be changed.

Screw the Bypass Orifice to bottom (clockwise).

c. Save the main bypass jets, in the plastic bag labeled main jets and simmer bypass jets in the bag for simmer jets.

When you are using your top burners, if the flame needs to be adjusted accordingly to fit your need, please adjust the **bypass orifices** on the burner valve.

Put back the knob on and adjust the flame by rotating the bypass via a small flat screw driver. Check the flame's condition to get the best performance.

6. Reconnect Gas and Electrical Supply to Range.

Leak testing of the appliance shall be conducted according to the installation instructions provided with the range.

Checking for Manifold Gas Pressure

If it is necessary to check the manifold gas pressure, remove the burner cap, inner ring, outer burner head and burner base of the right front top burner and connect a manometer (water gauge) or another pressure test device to the burner orifice. Use a rubber hose with inside diameter of approximately $\frac{1}{4}$ " and hold the end of the tube tight over the orifice. Turn the gas valve on. For a more accurate pressure check, have at least two other top burners burning. Be sure that the gas supply (inlet) pressure is at least one inch above the specified manifold pressure. The gas supply pressure should never be over 14" water column. When properly adjusted the manifold water column pressure is 10" for LP/Propane gas or 5" for Natural Gas.

7. Installation of New LP / Propane Rating / Serial Plate

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Record the model and serial number on the LP / Propane Rating serial plate provided in this kit. The information can be obtained from the existing Rating / Serial plate. Place the new plate as close as possible to the existing Rating / Serial plate on the range.



Do not use a flame to check for gas leaks

- a. Disconnect the range and its individual shut-off valve from the gas supply piping system during any pressure of that system at test pressures greater than 14" of water column pressure (approximately ½" psig)
- b. The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the supply system at test pressure equal to or less than 14" water column pressure (approximately ½" psig)