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

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.

AWARNING 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:

	Top Burner					Simmer burner	Griddle Burner	Oven Burner		Broil Burner		Bypass Jet
BTU	18000B TU	15000B TU	12000B TU	9000BTU	6000BTU		15000BTU	22000BT U	14000BT U	16500B TU	13000BT U	
Orifice Size	1.22mm/ 1.24mm	1.07mm	1.0mm	0.8mm	0.72mm	0.34mm/ 0.38mm	1.16mm/1.22mm	1.32mm	1.10mm	1.18m m	1.05mm	
HRG3078U	NA	1	2	1	NA	1	NA	1	NA	NA	1	5
HRG3080U	1	1	2	NA	NA	1	NA	1	NA	NA	1	5
HRG3031U	NA	2	2	NA	NA	2	NA	1	NA	1	NA	6
HRG3026U	2	2	NA	NA	NA	2	NA	1	NA	1	NA	6
HRG3609U	NA	2	2	NA	NA	2	1	1	NA	1	NA	6
HRG3617U	2	2	NA	NA	NA	2	1	1	NA	1	NA	6
HRG3603U	NA	2	2	2	NA	2	NA	1	NA	1	NA	8
HRG3618U	1	2	3	NA	NA	2	NA	1	NA	1	NA	8
HRG4804U	NA	3	3	NA	NA	3	1	1	1	1	NA	9
HRG4808U	3	3	NA	NA	NA	3	1	1	1	1	NA	9

Note: For operation at elevations above 2000ft., appliance rating shall be reduced at the rate of 4% for each 1000 ft. above sea level.

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.

The factory orifices are marked with the following:

Top Burners 1.88mm 18000BTU Top Burners 1.65mm 15000BTU Top Burners 1.5mm 12000BTU Top Burners 1.35mm 9000BTU

Top Burners 1.10mm 6000BTU

Oven Burner 2.26mm 22000BTU Oven Burner 1.70mm 14000BTU

Oven Broiler 1.85mm 16500BTU
Oven Broiler(HRG3080U) 1.63mm 13000BTU
Griddle 1.70mm 15000BTU

Main Burner Bypass Jet 0.88mm 18000 BTU Single Burner Orifice 1.85mm/1.88mm Griddle Burner Orifice 1.94mm/1.70mm Simmer Bypass Jet 0.46/0.42mm

Tools Required for L.P. Conversion:

10mm,14mm,17mm Open End Wrench 1/8" Wide Flat Blade Screwdriver Philips Screwdriver 7mm Nut Driver (for dual burner main orifice) 6mm Nut Driver (for dual burner simmer orifice) Adjustable wrench

IMPORTANT

15000 BTU Dual Burner Main Burner Orifice 1.07mm Simmer Orifice for LP 0.38mm/0.34mm

18000 BTU Single Burner Burner Orifice for LP 1.24mm/1.22mm

12000 BTU Single Burner Burner Orifice for LP 1.00m

Infrared Broiler Orifice for LP 1.18mm Griddle Burner Orifice for LP 1.22mm/1.16mm U-Shape Burner Orifice for LP 1.32mm 18" Oven Burner Orifice for LP 1.10mm HRG3080U Broiler Orifice for LP 1.05mm

1. Convert the Pressure Regulator

For 30 inch with 16,500BTU Broiler and all 36-inch gas range, please follow the below steps:

Pull the range away from the cabinet wall. The gas regulator is located at the bottom right corner of the range.

a. Electrical shock hazard can occur and result in injury or death. Disconnect electrical power to the range before servicing. Do not remove regulator or allow it to turn during servicing.

b. Unscrew the cap from the regulator. Do **not remove the spring from the regulator.**

c. Unscrew the plastic insert from the cap and turn it over so the longer stem is facing the cap (See Fig.1c-1).

Replace insert on the cap.

Replace the cap on the regulator.

For 30 inch with 13,000BTU Broiler and all 48-inch gas range, follow the below steps According to the steps from 1a to 1g, remove the 30" oven door, the cooking grid and the burner cover. Unscrew the right baffle.



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 accord to the following process to covert to Nature gas. Take extra care when handling steel parts.

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 (See Fig. 2c)

Remember to keep the original natural gas orifices for future conversions back to natural gas. Refer to page 1 under

"IMPORTANT" to identify their markings.

Replace the main orifice in each orifice holder with orifice size 1.07mm.

Replace the 18000BTU burner orifice in each with orifice size 1.22mm.

Replace the 12000BTU burner orifice in each with orifice size 1.0mm.

Replace the 9000BTU burner orifice in each with orifice size 0.8mm.

Tighten each orifice until snug.

Use caution not to over tighten.

d. Use a 6mm nut driver, replace the simmer orifice in each orifice holder with the orifice size 0.46mm. Replace the outer burner heads back to the main burner bases. Replace the inner burner rings, burner caps and grates.



3. Convert Oven Burner Orifice for LP/Propane Gas

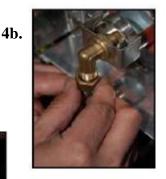
- a. Remove the (2) screws on the bottom of the toe kick panel. Hold the bottom edge of toe kick panel at the middle section and slightly lift towards the front. Hold the toe kick panel on both ends and slowly pull away towards the front.
- **b.** Remove the toe kick panel.
- c. Remove the (2) screws holding the orifice bracket and locate the orifice. Remove orifice using an adjustable wrench. Replace with oven burner orifice, size 1.32mm (for 48in. small oven, with orifice 1.10mm) and tighten. Replace the orifice bracket, aligning the new orifices into the air shutter of the oven burner.

4. Convert Broil Burner Orifice for LP/Propane Gas
For all range except 30 inch with 13,000BTU tube broil, please follow the next steps

- a. Remove back guard and back cover. (See Fig. 4a)
- Using a 14mm or adjustable wrench fix the Orifice holder, and use the 17mm wrench to remove the nut, and 10mm wrench to remove the orifice from the orifice holder.
 Replace with oven broiler orifice size 1.18mm. (See Fig.4b)

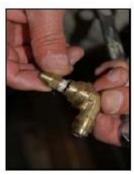
4a.





















Care should be taken when removing and replacing gas components. Use proper support to prevent damage to components.

For 30inch range with 13,000BTU broiler, please follow the converting steps below.

- 1.Remove the oven door and cooking grid. (See Fig.4a-1 and 4b-1)
- 2.Unscrew the oven baffle. (See Fig.4c-1)
- 3.To locate the orifice, hold the broil burner and unscrew the 2 screws that fix it, and move it slightly to to one side. (See Fig.4d-1 and 4e-1)
- 4.Removing the orifice with an adjustable wrench. (See Fig.4f-1)
- 5.Replace with LP oven burner orifice (size 1.05mm) and tighten the kit. (See Fig.4g-1)

4b-1 4a-1 4c-1 4e-1 4d-1 4f-1 4g-1

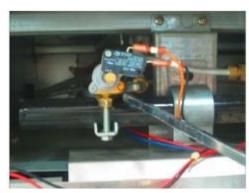


5. Convert Griddle Orifice for LP/Propane Gas

(For 36" ranges equipped with 4 top burners and a griddle)

- a. Remove back guard and back cover (See "Fig. 4a" on previous page)
- Remove the oven burner venturi cover for better access. (See Fig. 5b)
- Using a 14mm open wrench, fix the orifice holder and using a 17mm wrench to remove the nut.
 Using a 10mm wrench to remove the orifice from the orifice holder. Replace with griddle orifice size 1.22mm. (Refer to Fig. 4b on previous page.)
- Replace gas line and venturi cover.





A CAUTION

Care should be taken when removing and replacing gas components. Use proper support to prevent damage to components.

6. Convert Gas Valves for LP/Propane Gas

- a. Remove control knobs, bezel and control panel
- b. Using a flat screwdriver, replace gas valve bypass jets with bypass jets for LP

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







6b.



7. 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 other pressure test device to the burner orifice. Use a rubber hose with inside diameter of approximately 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 (2) 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

A CAUTION 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)

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8. Air Shutter Oven Burner

The air shutter for the oven burner may need adjustment, especially if the unit has been converted for use with LP/Propane gas.

The approximate flame length of the oven burner is one inch (distinct inner blue flame).

To Determine if the oven burner flame is proper:

- a. With the toe tick removed, set the oven to bake at 350° F and observe the flame. If the flame is yellow in color, increase the air shutter opening size. If the flame is blue lifting away from the burner, reduce the air shutter opening size.
- b. Turn off oven and allow it to cool before adjusting the air shutter. To adjust, loosen the lock screw, reposition the air shutter and tighten the lock screw.

 Retest the burner by repeating the steps above. When the burner flame is a distinct blue color burning steadily, the air shutter is adjusted correctly.

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

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.