

PROPANE (LP) CONVERSION INSTRUCTIONS

⚠ WARNING

 **Explosion Hazard**

Death or serious injury can result from failure to follow these instructions.

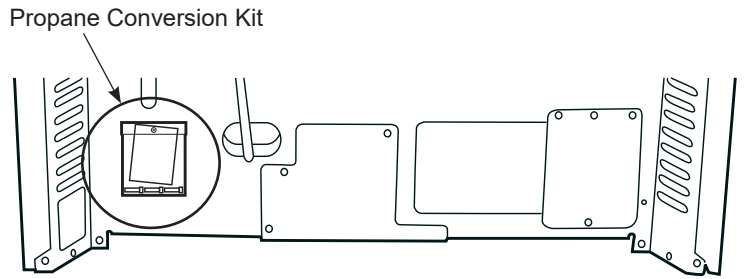
- Service by a qualified service technician only.
- Shut off gas supply and disconnect power before servicing.
- Reconnect all grounding devices after service.
- Replace all parts and panels before operating.

The pressure regulator and the burner orifices are set for natural gas. To use propane (LP) gas, the regulator and burner orifices must be converted.

⚠ WARNING

Do not operate the cooktop or oven burners of this range when using propane (LP) (bottled) gas before converting the pressure regulator and burner orifices for propane (LP) gas use. Failure to do so could cause high flames and toxic fumes which can result in serious injury.

The propane orifices for the cooktop burners are shipped on the back of the range in the location shown.



TOOLS REQUIRED:

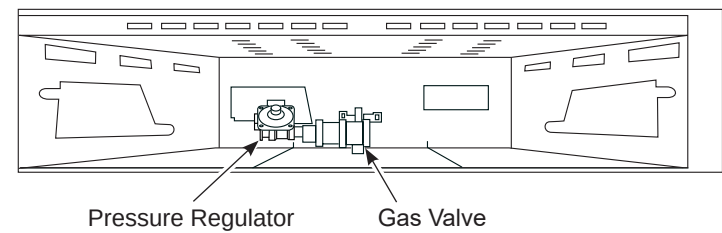
- Adjustable wrench
 - 1/2" Open-end wrench
 - Phillips head screwdriver
- Flat bladed screwdriver (blade approximately 3/32" across)
 - Nut drivers: 1/4", 9/32" or 7mm

To adjust your range for use with propane (LP) gas, follow these instructions:

1. Disconnect all electrical power, at the main circuit breaker or fuse box.
2. Shut off the gas supply to the range by closing the manual shut-off valve.

CONVERTING THE PRESSURE REGULATOR

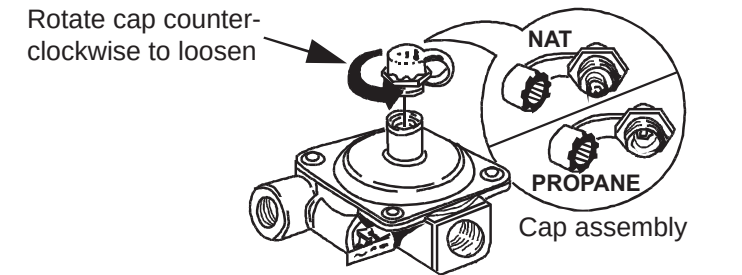
The pressure regulator is located on the rear of the range. (Some models will have a metal shield protecting the regulator that must be removed for conversion and reinstalled when conversion is complete.) The pressure regulator is located in the lower, left hand side of the range as viewed from the front left.



NOTICE:

If you are using propane (LP) (bottled) gas, all adjustments described in the following steps must be made before you make any burner adjustments.

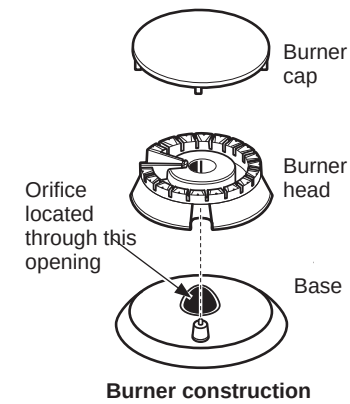
1. Use an adjustable wrench to unscrew the hex-nut cap from the pressure regulator.
2. Completely remove the protective plastic cap off the threaded metal cap.



3. Turn the metal cap so the type of gas being converted to is displayed and replace the protective plastic cover.
4. Screw the hex-nut cap back into the regulator. **(Do not over tighten)**

CONVERTING THE COOKTOP BURNERS

- A. Remove the top grates, burner caps and burner heads.

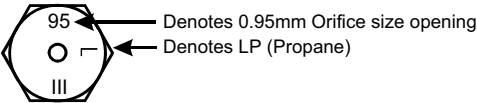


- B. Using a 7 mm or 9/32" nut driver, remove the top burner orifices. These may be accessed through the burner opening in the base.

NOTICE:

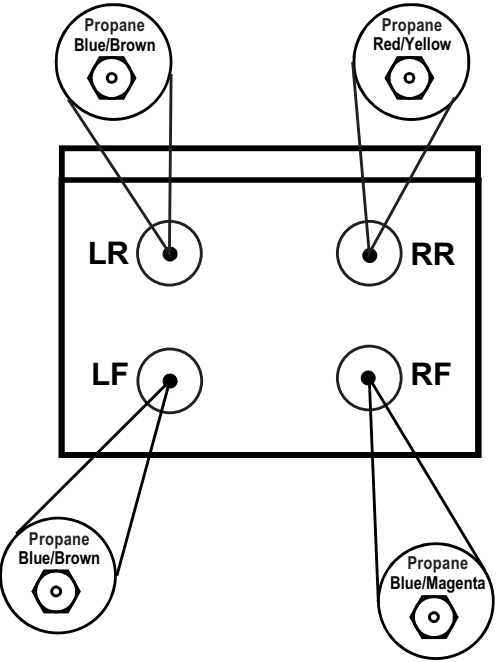
Save these orifices for future conversion back to natural gas.

- C. Remove the propane (LP) orifices from the box provided. The propane (LP) orifices have the letter "L" on the top. To aid in identifying the proper location for the propane (LP) orifices during conversion from Natural Gas to Propane (LP) Gas, color codes have been added to the side or top of the orifice. See the chart below. Each orifice may also show a series of engraved marks (I, II, III . . .) located on the top.



BURNER OUTPUT RATINGS: BTU/HR				
Propane (LP) Gas 10" W.C.P.				
BURNER	BTU RATE	ORIFICE SIZE (mm)	COLOR	MARKING
RF	12,000	0.039" (0.99)	Blue/Magenta	99L
LF	9,500	0.035" (0.89)	Blue/Brown	89L
RR	5,000	0.026" (0.66)	Red/Yellow	66L
LR	9,500	0.035" (0.89)	Blue/Brown	89L
OVEN	16,500	0.048" (1.21)	Pink	0.048

- D. Install the propane (LP) orifices in their precise locations.



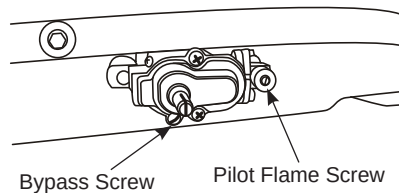
To prevent leakage, make sure the orifice spuds are securely screwed into the gas supply tubes.

- E. Install the old orifice spuds into the metal box or bracket along with these instructions, and replace onto the back of the range for possible future conversion.

CONVERTING THE OVEN THERMOSTAT

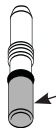
- Remove all five (5) knobs, including OVEN CONTROL knob. Remove the two (2) screws located behind the two (2) inner cooktop knobs.
- Open the oven door. Remove the three (3) screws located under the manifold panel. Remove the manifold panel. It is recommended that you remove the cooktop by removing the 12 T15 screws located under the burner heads.
- Locate the thermostat bypass screw below the thermostat shaft. Completely loosen the natural gas bypass screw (blue) by turning it counterclockwise. Remove it by gently pulling it out using pliers.
- Replace with the propane (LP) bypass screw (white/green) located in the paper envelope on the back of the range. Tighten the screw by turning it clockwise.

Turn Screws Counter clockwise to loosen



- Locate the thermostat pilot flame screw to the right of the thermostat shaft. Completely loosen the natural gas pilot screw (pink) by turning it counterclockwise. Remove it by gently pulling it out using pliers.

Propane (LP) or Nat



Bypass and Pilot Flame screws look similar, please see chart below for correct screw

- Replace with the propane (LP) pilot screw (black) located in the paper envelope on the back of the range. Tighten the screw by turning it clockwise.
- Replace manifold panel knobs and cooktop (if cooktop was removed in order to make it easier to remove the manifold panel).

Bypass and Pilot Flame Screws			
GAS TYPE	SCREW TYPE	COLOR	SIZE
Natural Gas	Bypass	Blue	# 76
Natural Gas	Pilot	Red	# 30
Propane (LP)	Bypass	Orange	# 53
Propane (LP)	Pilot	Violet	# 18

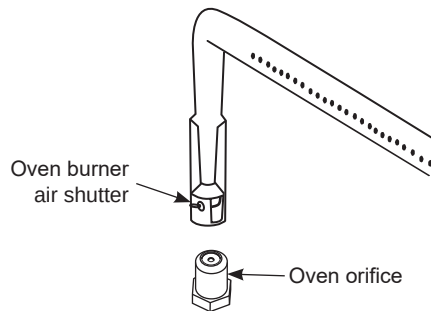
CONVERTING THE OVEN BURNERS

⚠ WARNING The following adjustments must be made before turning on the gas to the oven burner. Failure to do so could result in serious injury due to high flames and toxic fumes.

OVEN BURNER ORIFICE

- Remove oven door, broil drawer, oven bottom, and burner. The oven burner orifice is located behind the drawer. On some models a metal shield must be removed.
- To convert to propane (LP), replace oven orifice with the one supplied in kit with range.

NOTICE:
Save these orifices for future conversion back to natural gas.



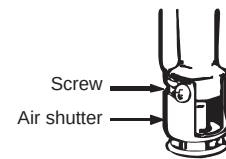
NOTICE:
This product cannot be converted to propane (LP) by adjusting the oven orifices. The orifices must be replaced for propane (LP).

ADJUSTING AIR SHUTTER SETTINGS FOR OVEN BURNERS

The air shutters should be turned to the marked settings NG or propane or set according to the following table.

BURNER	AIR SHUTTER SETTING FOR PROPANE	AIR SHUTTER SETTING FOR NG
Bake/Broil	0.500"	0.500"

- With a Phillips head screwdriver, loosen the screws securing the air shutter on the bake burner. Adjust the air shutter to fully open.
- Turn on the gas.
- Turn on the electricity.
- Reinstall the oven door.
- Turn on the bake burner.



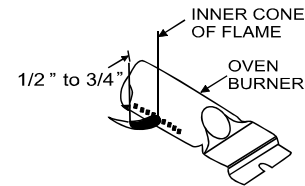
Oven burner flame must be observed with the door closed to properly check flame characteristics.

- As you watch the flame with the oven door closed, check the following through the oven door window or through the broil drawer opening.
 - If the flames are yellow, open the air shutter more.
 - If the flames blow away or flutter from the burner, close the air shutter slightly.

⚠ WARNING If you attempt to measure the inner cone of the flame, please use caution: burns could result.

- Checking the flame size:
It should be approximately 1/2" to 3/4" long for the bake burner.

The combustion quality of the burner flames needs to be determined visually.



NOTE: If burner flames look like (A), further air shutter adjustment to the bake burner is required. Normal burner flames should look like (B) or (C), depending on the type of gas you use. With propane (LP) gas, some yellow tipping on the outer cones is normal.



(A) Yellow flames:
Further Adjustment Required



(B) Yellow tips on outer cones:
Normal for Propane (LP) Gas



(C) Soft blue flames:
Normal for Natural Gas

Foreign particles in the gas line may cause an orange flame at first, but this will soon disappear.

- When all adjustments are made and the results are satisfactory:
 - Retighten the air shutter screws.
 - Replace the oven bottom.

SPECIAL NOTE:

To convert the oven back to natural gas, reverse the instructions given in making propane (LP) adjustments.

NOTICE:

Once the conversion is complete and confirmed, fill out the propane (LP) sticker and include your name, organization and date conversion was made. Apply the sticker to the range near the regulator to alert others in the future that this appliance has been converted to propane (LP). If converting back to natural gas from propane (LP), please remove the sticker so others know the appliance is set to use natural gas.

ADDITIONAL INFORMATION

BURNER OUTPUT RATINGS: BTU/HR				
NG (Natural) Gas 5" W.C.P.				
BURNER	BTU RATE	ORIFICE SIZE (mm)	COLOR	MARKING
RF	13,000	0.064" (1.62)	Black/Red	162N
LF	9,500	0.053" (1.36)	Green	136N
RR	5,000	0.040" (1.01)	White/Purple	101N
LR	9,500	0.053" (1.36)	Green	136N
OVEN	18,000	0.076" (1.93)	None	.076

