

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.

⚠ 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.

Rear of Range Hood

Pressure Regulator Location

Propane (LP) Conversion Kit

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

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.

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.

Rotate cap counter-clockwise to loosen

The diagram illustrates the removal of the protective plastic cap from the pressure regulator. A curved arrow indicates the cap should be rotated counter-clockwise to loosen it. An inset shows the cap assembly with 'NAT' and 'PROPANE' labels.

- ## CONVERTING THE COOKTOP BURNERS
- A. Remove the top grates, burner caps and burner heads.
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- The diagram illustrates the removal of burner components for two cooktop configurations. On the left, the 'Multi-ring' configuration shows a burner cap, a burner cap, a burner head, and a base. On the right, the 'Round burner' configuration shows a burner cap, a burner head, and a base. Arrows indicate the removal of the burner caps and burner heads from the bases. A label 'Orifice located through this opening' points to the base of the burner head in the Multi-ring configuration.
- Labels for Multi-ring configuration:
- Burner cap
 - Burner cap
 - Burner head
 - Base
- Labels for Round burner configuration:
- Burner cap
 - Burner head
 - Base
- Orifice located through this opening

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

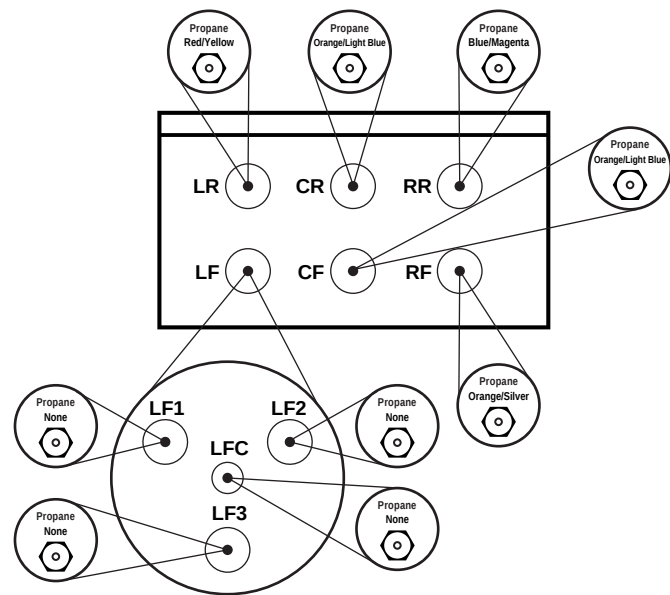
95

Denotes 0.95mm Orifice size opening

Denotes LP (Propane)

III

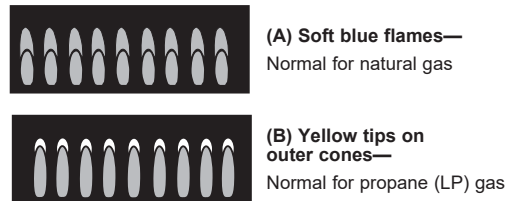
D. Install the propane (LP) orifices in their precise locations.



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.

Quality of Flames

Determine the quality of flames visually. Normal burner flames should look like (A) or (B).



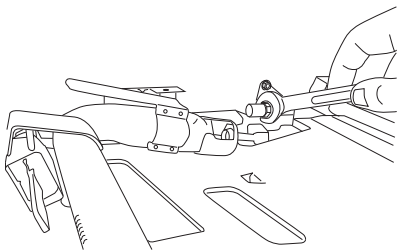
Long, bright yellow flames are not normal. Normal flames may show signs of an orange tint when well heated or signs of flickering orange due to particles in the gas or air.

CONVERTING THE OVEN BURNERS

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

UPPER AND LOWER OVEN BAKE BURNER ORIFICES

- 1. Remove the lower oven door from the unit
- 2. Remove oven racks, oven bottoms and flame spreaders from both ovens. In the lower oven, remove the enclosure around the rear of the bake burner held in place by three Phillips screws.
- 3. Remove all 1/4" hex screws securing the bake burners. Gently slide each bake burner to the left to remove it from the orifice and allow burners to rest on the bottom of their respective ovens.
- 4. With a 1/2" wrench, loosen each orifice by turning counter-clockwise and remove.

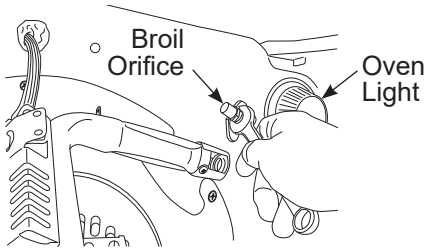


NOTICE:
Save these orifices for future conversion back to natural gas.

- 5. Select the appropriate bake orifice for each oven from the kit and install on the threaded fittings. Tighten with wrench until snug.
- 6. Gently replace the bake burners over their respective orifices and replace all 1/4" hex screws securing the burners.

BROIL BURNER ORIFICE

- 1. Remove the 1/4" hex screw securing the broil burner and allow it to hang down free of the broil orifice.
- 2. Apply a 1/2" wrench to the hex base of the orifice. Loosen the orifice by turning counter-clockwise and remove.



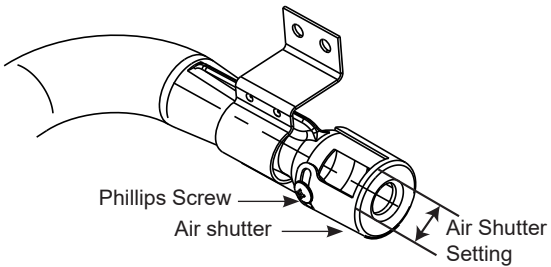
NOTICE:
Save these orifices for future conversion back to natural gas.

- 3. Select the propane (LP) broil orifice from the kit and install it on the broil elbow. Tighten until snug.
- 4. Replace the broil burner over the orifice and replace the screw securing the burner.

ADJUSTING AIR SHUTTER SETTINGS FOR OVEN BURNERS

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

BURNER	AIR SHUTTER SETTING FOR PROPANE (LP)	AIR SHUTTER SETTING FOR NG
Lower Oven Broil Burner	0.690	0.690
Upper Oven Bake Burner	0.750	0.750
Lower Oven Bake Burner	Full Open	Full Open



With a Phillips head screwdriver, loosen the screws securing the air shutters on the burners and adjust the air shutters according to chart above.

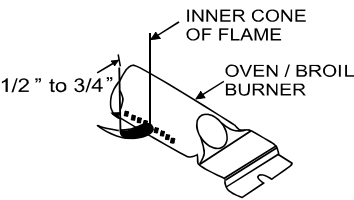
Bake and broil flames must be checked with the oven doors closed to properly check flame characteristics.

- 1. Turn on the gas.
- 2. Turn on the electricity.
- 3. Reinstall the lower oven door. Close both doors.
- 4. Turn on both bake burners.
- 5. For each burner, observe the following through the oven door windows.
 - a. If the flames are yellow, open the air shutter more.
 - b. If the flames blow away or flutter from the burner, close the air shutter slightly, but not by more than 1/8".
- 6. Turn bake burner off and repeat with broil burner.

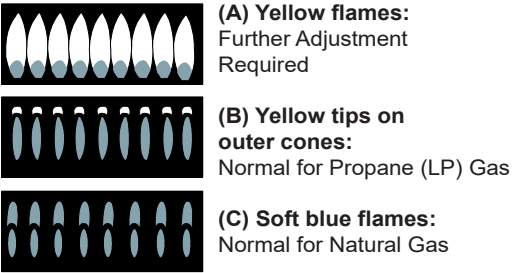
⚠ WARNING If you attempt to measure the inner cone of the flame, please use caution: burns could result.

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

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



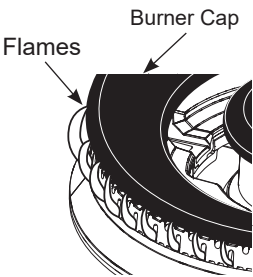
- Foreign particles in the gas line may cause an orange flame at first, but this will soon disappear.
- 8. Retighten the air shutter screws.
 - 9. When all adjustments are made and the results are satisfactory:
 - a. Replace the enclosure around the rear of the bake burner in the lower oven.
 - b. Replace the flame spreaders.
 - c. Replace the oven bottoms and oven racks.

ADJUSTING LOW FLAME SETTING ON COOKTOP BURNERS

- Low setting adjustments must be made with other burners in operation on a medium setting. This procedure prevents the low flame from being set too low, resulting in the flame being extinguished when other burners are turned on.
- A. Turn on all surface burners to medium setting.
 - B. Turn the knob on the burner being adjusted to "LO".
 - C. Remove the knob and insert a small, flat blade screwdriver into the valve shaft and/or side adjustment screw(s) as shown and turn clockwise to fully tighten down the bypass screw(s). Repeat for all valves.
 - D. If flame appears too low or unstable, slowly turn bypass screw counterclockwise until a stable flame exists for each burner. Remember, other burners must be turned on to medium.

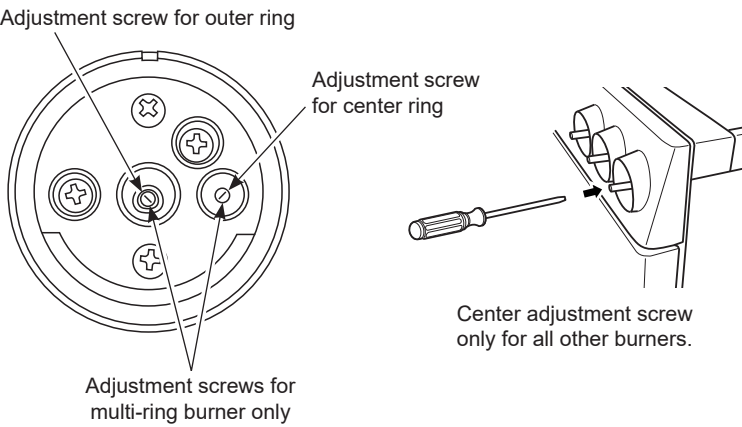
SPECIALTY BURNERS

Multi-Ring Burner – The outer ring of flames should be adjusted with the knob at the MED by adjusting the set screw in the center valve shaft. The flames should be adjusted so that they barely curl over the top edge of the burner cap. The center ring of flames should be adjusted with the knob at the LO setting by adjusting the set screw to the right of the valve shaft.



- E. Additionally, for each burner being adjusted, quickly open and close the oven door while observing flame. If flame is extinguished, continue adjusting bypass screw for a larger flame. Repeat door openings until flame is stable.

- F. Replace the knob.

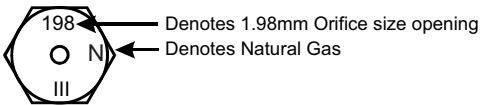


SPECIAL NOTE:
To convert the oven back to natural gas, reverse the instructions given in making propane (LP) adjustments.

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
LF	21,000			
LF1	N/A	0.045	None	114N
LF2	N/A	0.045	None	114N
LF3	N/A	0.045	None	114N
LFC	N/A	0.025	None	63N
LR	5,000	0.040	White/Purple	101N
CF	9,500	0.0555	Yellow	141N
CR	9,500	0.0555	Yellow	141N
RF	15,000	0.070	Brown	178N
RR	12,000	0.061	Red	155N
Upper Bake	7,000	0.046	Yellow	046N
Broil	16,500	0.071	Black/Blue	071N
Lower Bake	14,000	0.066	Red	066N



PROPANE (LP) CONVERSION INSTRUCTIONS
31-11086 Rev. 2 06-19 GEA
CGS750M, CGS995, add CGS750P