

# NAT Conversion Kit Instructions for D3 / 3 Series Gas Self Clean and Dual Fuel Range

# NAT Conversion Kit Instructions (cont.)

**WARNING**

The conversion must be performed by a qualified installer or gas supplier in accordance with the manufacturer's instructions and all codes and requirements of the authority having jurisdiction. Failure to follow **ALL** instructions could result in serious injury or property damage. The qualified agency performing this work assumes responsibility for this conversion.

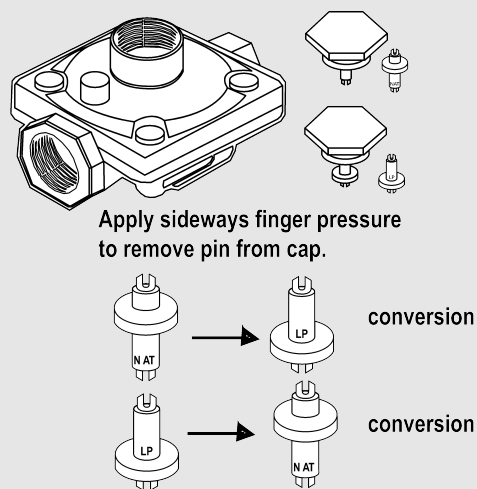
The pressure regulator and the burner orifices are set for LP gas. To use natural gas, the regulator and burner orifices must be converted.

- To convert the range to NAT 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

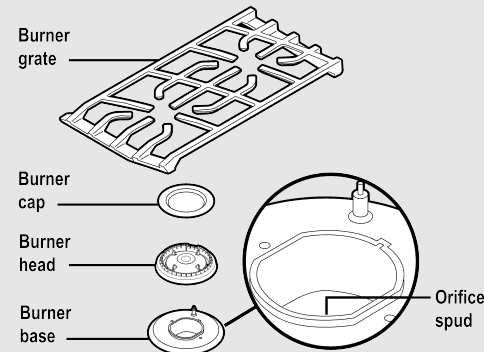
1. Locate the pressure regulator which can be found on the back of the range on the right hand side if facing the back of the range.
2. Unscrew the hex nut cap from the top of the regulator.
3. Unsnap the plastic plunger from the hex nut.
4. Reverse the plunger and reinstall onto the hex nut by pressing firmly.

**Note:** Plunger is marked "Nat" and "LP". Converted fuel type will be shown on the lower portion of the plunger.



### Converting the Surface Burners

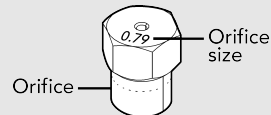
1. Remove the top grates, burner caps, and burner heads.



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

**Note:** Save these orifices for future conversion back to NAT gas, if required.

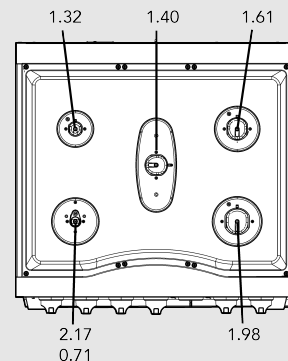
3. Locate the proper NAT surface burner orifices included with the kit according to the chart below.



4. Install the orifices in their correct location. To prevent leakage, make sure the orifice spuds are securely screwed into the burner base.

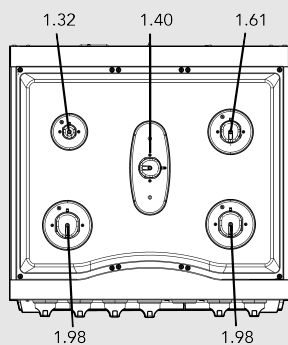
### D3

Burner	BTU Rate	Orifice Size
Left front (dual)	High	2.17
	Low	0.71
Left rear	8,000	1.32
Center	9,000	1.40
Right front	17,000	1.98
Right rear	12,000	1.61
Bake	30,000	#38 (2.58)
Broil	15,000	#50 (1.87)



### 300 Series

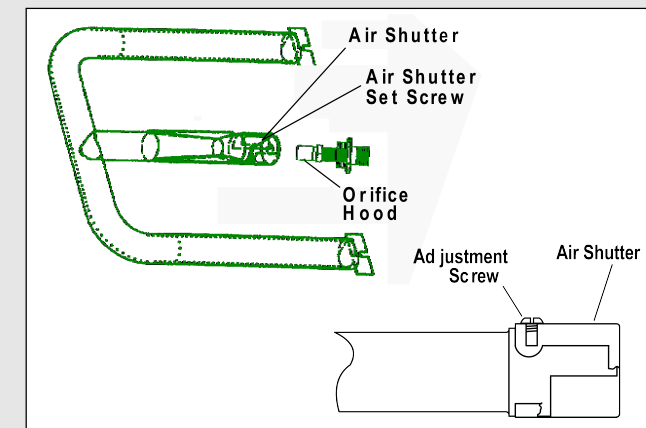
Burner	BTU Rate	Orifice Size
Left front	18,000	1.98
Left rear	8,000	1.32
Center	9,000	1.40
Right front	17,000	1.98
Right rear	12,000	1.61
Bake	30,000	#38 (2.58)
Broil	15,000	#50 (1.87)



### Converting the Bake Burner

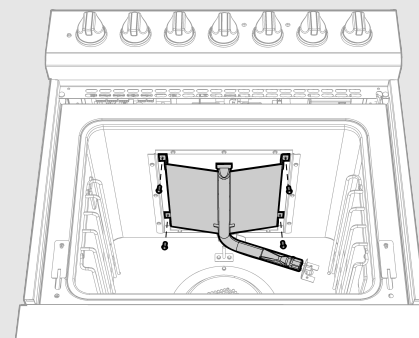
1. Remove oven racks and oven support.
2. Remove oven bottom.
3. Remove screws securing bake igniter to bake burner.
4. Remove screws securing bake burner shield to oven burner box.
5. Remove screws securing bake burner to oven burner box.
6. Loosen air shutter screw and adjust opening on burner to 3/8" and tighten air shutter screw.
7. Remove orifice by turning counterclockwise and replace with orifice from bag labeled #38 (2.58).

**Important:** The orifice tip must be located 3/16" inside the burner for proper gas mixture and combustion. The depth of the orifice can be adjusted by turning the orifice counterclockwise (more depth) or clockwise (less depth). Reverse procedure as needed to reassemble.



### Converting the Broil Burner

1. Remove the screws (4) from the broiler baffle.
  2. Carefully remove the broiler burner
- Note:** Pay close attention to the igniter wire while removing the



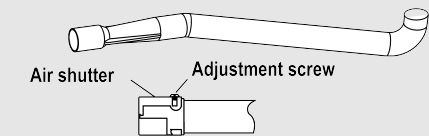
3. Disconnect the igniter wire.
4. Use a 1/2" wrench to remove the broiler burner LP gas orifice hood and replace with NAT broiler burner hood #50 (1.87).
5. Reinstall the converted broiler burner by first firmly attaching the igniter wire.
6. Reposition the broiler burner in its original position.

7. Replace the four screws into the broiler baffle.

### Air Shutter Settings for Broiler Burner

1. Use a screwdriver to loosen the air shutter screw.
2. Adjust the air shutters for NAT gas by rotating the shutter to the fully open position. Your final settings may vary.
3. Retighten the air shutter screw.

**Bake and broiler flame must be checked with the door closed to properly check flame characteristics.**



**WARNING**

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

4. Turn on the gas.
5. Turn on the electricity.
6. Retighten the air shutter screw.
7. Turn on the bake and broiler burner.
8. As you watch the flame with the oven door closed, check the following through the oven door window:
  - 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 more.
9. Open the oven door and check the inner cone of the bake and broiler burner flame. 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.
10. When all adjustments are made and the results are satisfactory then replace the oven bottom cover.

In some cases, foreign particles in the gas line may cause an orange flame at first but this will soon disappear.

**Note:** To convert the oven back to LP gas, reverse the instructions given for making the NAT gas adjustments.

**Note:** When the NAT conversion is finished, complete the enclosed conversion label and place it next to the rating label.