

# Conversion Instructions

## Converting to LP (Propane) Gas or Converting Back to Natural Gas from LP

30" Standard Twin Burner Gas Range with Pilot Ignition

Before you begin - Read these instructions completely and carefully. **IMPORTANT** - Save these instructions for local inspector's use. **IMPORTANT** - OBSERVE ALL GOVERNING CODES AND ORDINANCES. Note to Installer - Be sure to leave these instructions, orifices and screws with the Consumer. Note to consumer - Keep these instructions with your Owner's Manual for future reference.

THIS RANGE IS FACTORY SET FOR USE WITH NATURAL GAS. USE THESE INSTRUCTIONS WHEN CONVERTING TO LP (PROPANE) GAS AND WHEN CONVERTING BACK TO NATURAL GAS.

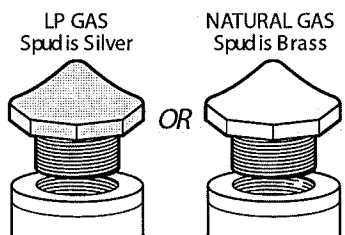


### WARNING

This conversion kit must be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result, 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 the kit.

### BURNER SPECIFICATIONS

Top Burner	Orifice Drill Size	Color
Natural Gas	#53 (.0590 Dia.)	Brass
LP (Propane)	#66 (.0330 Dia.)	Silver



### Tools Required

Adjustable wrench	Flat-blade screwdriver
1/2" open-end wrench	(blade width approximately 3/32" across)
Pliers	Nut driver (5/16" or small adjustable wrench)
Phillips head screwdriver	

### STEP 1 PREPARE RANGE FOR CONVERSION

- Disconnect main gas supply to the range.
- Disconnect the electrical power to the range.
  - If range has not been connected to the gas supply, or if a flexible connection was made, the range may be pulled out from the wall to make conversion easier.



### CAUTION

If the gas supply to the range is disconnected for any reason, see the installation instructions for proper connection and safety precautions.

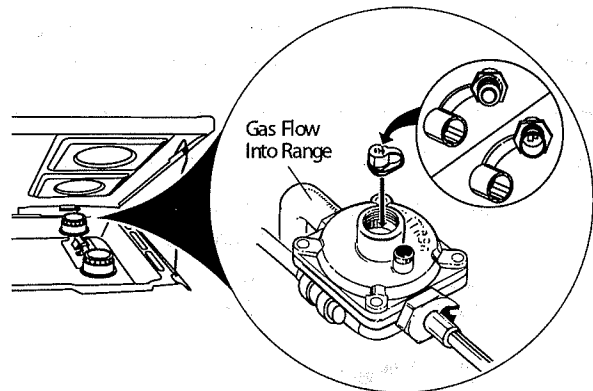
### STEP 2 CONVERT THE PRESSURE REGULATOR



### WARNING

Do not remove the pressure regulator from the range.

- Raise the cooktop and locate the pressure regulator at the right rear of the range.

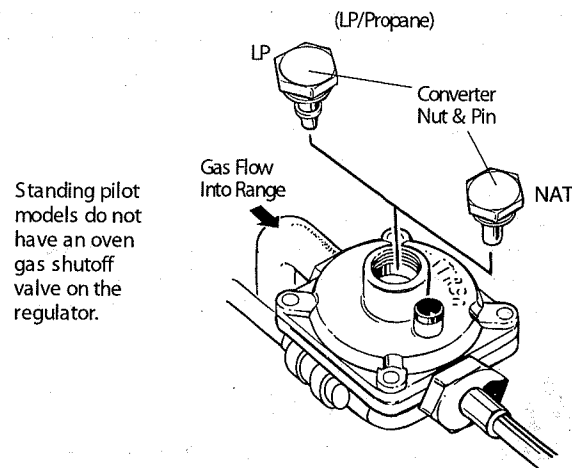


Regulator pictured may differ from your model

- Follow the direction in 2-A or 2-B depending on the regulator type.

### 2A - IF THIS IS YOUR REGULATOR:

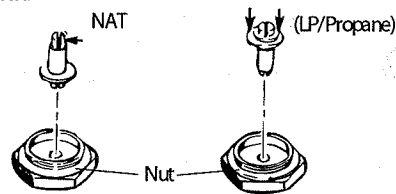
- Use an adjustable wrench to remove the hex-nut from the pressure regulator.



- Apply sideward finger pressure to remove the plastic pin from the nut.

Note: To remove the pin, place the nut on a flat surface and press the pin sideways with your fingers.

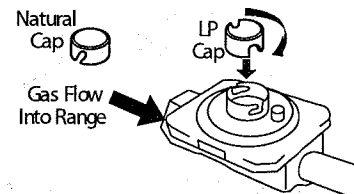
- Rotate the pin 180 degrees and snap the pin back into the nut.



- Reinsert the assembly into the regulator and tighten the hex-nut. Do not overtighten.

### 2B - IF THIS IS YOUR REGULATOR:

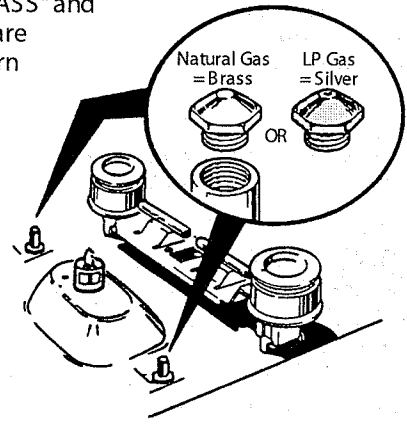
- Use a large, flat-blade screwdriver or a coin to remove the cap from the pressure regulator.



- Turn the cap over and hook it into the slots. The type of gas to be used should now be visible on the top of the cap.

### STEP 3 CONVERTING THE SURFACE BURNERS

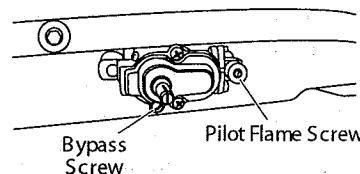
- Lift the burner assemblies straight up (set aside) to gain access to the surface burner orifice spuds.
- Using a 5/16" nutdriver, or adjustable wrench, remove each of the four (4) spuds on the surface burner gas inlet tubes. Replace them with the correct gas spuds mounted in a holder at the right rear of the range, above the regulator. Natural gas spuds are "BRASS" and LP gas spuds are "SILVER". Return the spuds you removed from the inlet tubes to the holder above the regulator. To prevent leakage, make sure the spuds are securely screwed into the gas inlet tubes.
- Replace the burner assemblies.



### STEP 4 ADJUST OVEN THERMOSTAT

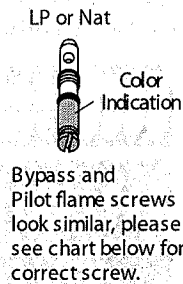
- Remove all five (5) knobs, including OVEN CONTROL knob. Remove the four (4) screws located behind the two (2) inner cooktop knobs.
- Open the oven door. Remove the three (3) screws located under the manifold panel. Remove the manifold panel.
- Locate the thermostat bypass screw below the thermostat 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 LP bypass screw (white) located in the envelope near the rear of the range, above the pressure regulator. Tighten the screw by turning it clockwise.

Turn Screws Counterclockwise to Loosen and Use Pliers to Remove



### STEP 4 ADJUST OVEN THERMOSTAT (continued)

- Locate the thermostat pilot flame screw to the right of the thermostat shaft. Completely loosen the natural gas pilot screw (red) by turning it counterclockwise. Remove it by gently pulling it out using pliers.
- Replace with the LP pilot screw (black) located in the envelope near the rear of the range, above the pressure regulator. Tighten the screw by turning it clockwise.
- Replace manifold panel and knobs.



Note: Return all bypass and pilot flame screws back to the envelope.

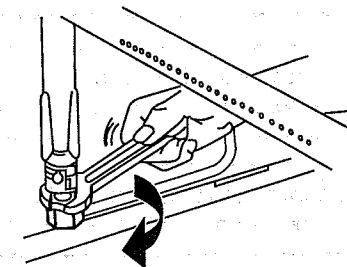
Gas Type	Screw Type	Color
Natural Gas	Bypass	Blue
Natural Gas	Pilot	Red
LP (Propane)	Bypass	White or Green
LP (Propane)	Pilot	Black

### STEP 5 CONVERT THE OVEN BURNER ORIFICE

- Oven Burner
- Remove oven door, broiler drawer, oven racks, and oven bottom. The lower burner orifice hood is located behind the broiler drawer (on some models, a metal shield must be removed to access the orifice hood).
- To convert to LP gas, use a 1/2" wrench to turn the lower burner orifice hood clockwise. Tighten the hood until it is snug. To prevent damage, do not overtighten the hood.

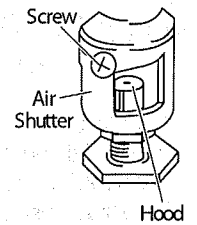
This assembly is located at the rear of the broiler compartment.

A metal shield may need to be removed on some models to access the orifice hood.



### STEP 6 ADJUSTING THE AIR SHUTTER

- To adjust the air shutter for LP gas, loosen the Phillips head screw and rotate the shutter to the full open position. For natural gas, the shutter should be open 1/2" or about 3/4" of the way open.



### STEP 7 CHECK FOR LEAKS

- Connect range to gas.
- When all connections have been made, make sure all range controls are in the off position and turn on the main gas supply valve. Use a liquid leak detector at all joints and connections to check for leaks in the system.

**CAUTION: DO NOT USE A FLAME TO CHECK FOR GAS LEAKS.**

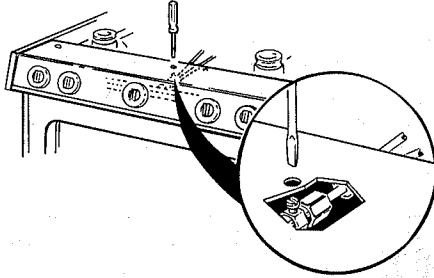
When using test pressures greater than 1/2 psig to pressure test the gas supply system of the residence, disconnect the range and individual shutoff valve from the gas supply piping. When using test pressures of 1/2 psig or less to test the gas supply system, simply isolate the range from the gas supply system by closing the individual shutoff valve.

### STEP 8 LIGHT THE SURFACE PILOTS

- CAUTION** Make sure the surface burner control knobs are in the OFF position before attempting to light the pilots.
- Light both surface burner pilots with a match.
- To avoid pilot outage, use caution when closing the cooktop after lighting pilots.

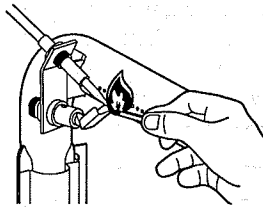
## STEP 9 ADJUST THE SURFACE BURNER PILOTS

- Locate the pilot adjustment screw. It can be accessed through the small hole near the center of the manifold panel.
- To adjust, use a flat-blade screwdriver with a shaft diameter of less than 3/16". Turn the pilot adjustment screw until the pilot is 5/16" high. Do not reduce the flame to less than 5/16" or a pilot outage may occur. A pilot flame burning higher than recommended may generate soot (carbon black) on the bottom of the cooktop.



## STEP 10 LIGHT THE OVEN PILOT

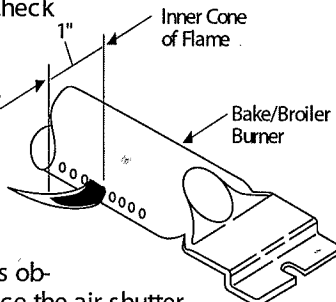
- Locate the pilot in the back of the oven bottom. The pilot is attached to the left side of the oven burner.
- To light the oven pilot, push in and hold the oven control knob while lighting the pilot with a long match or match holder. Once the oven pilot is lit, continue holding the oven control knob for one minute before releasing.
- The pilot flame size should be approximately 3/8 for LP and 1/2 for natural gas.



## STEP 11 CHECKING THE FLAME SIZE

Turn on oven burner. Check the flame size for LP gas.

The flame should have approximately 1-inch blue cones. After 30 seconds of burner operation, check for flames lifting off the burner ports. If lifting is observed, gradually reduce the air shutter opening until flames are stabilized. Some yellow tipping may be normal on LP gas. See Step 12.

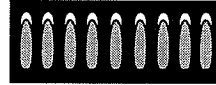


## STEP 12 CHECK QUALITY OF FLAMES

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



(A) Yellow flames-  
Further adjustment  
required



(B) Yellow tips-  
Normal for LP Gas



(C) Soft Blue flames-  
Normal for Natural Gas

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

## STEP 13 REPLACE OVEN PARTS

Replace oven bottom, oven racks, oven door and broiler drawer.

## STEP 14 COMPLETE AND ADHERE CONVERSION STICKER

Upon completion of this conversion, fill out the LP sticker included with the instructions. Once complete, apply the sticker to the back of the range near the regulator. The conversion sticker must reflect the change in fuel.

If converting back to natural gas from LP, remove the LP sticker from the back of the range.

Save these instructions for reference in case the range must be converted back to natural gas.

The conversion to LP gas for the standard twin burner gas range with standing pilot is now completed.

DWG No. 183D5578P057