

**INSTALLATION INSTRUCTIONS FOR NATURAL GAS TO PROPANE/LP OR PROPANE/LP TO NATURAL GAS CONVERSION KITS**

[MODELS STARLITELX 36" & 42", VRE3200 SERIES 36 & 42" FIREPLACES]

**KIT COMPONENTS**

- 1 ea. Burner Orifice, #49 (.073") LP / #30 (.128") NG
- 1 ea. Conversion Label
- 1 ea. Conversion Information Label
- 1 ea. Set Screw, # 00 LP / # 0X NG
- 1 ea. Instruction Sheet
- 1 ea. Air Shutter (must be changed during conversion)

**REQUIRED TOOLS AND SUPPLIES**

- 1/4" Open Ended Wrench
- 5/16" Nutdriver
- Slotted Screwdriver
- Needle Nose Pliers
- Thread Sealant (resistant to Propane/LP)

Gas Conversion Kits					
Natural to Propane Gas			Propane to Natural Gas		
Cat. #	Model	Fireplace	Cat. #	Model	Fireplace
F4126	CKAF4004SLLXNP	36"/42"	F4127	CKAF4004SLLXPN	36"/42"

**TURN OFF THE GAS SUPPLY TO THE APPLIANCE. DISCONNECT ELECTRICAL POWER SUPPLY.**

**READ ALL THE STEPS BEFORE STARTING THE CONVERSION. INSTALLER NOTICE: THESE INSTRUCTIONS MUST BE LEFT WITH THE APPLIANCE.**

**When installing gas components use pipe joint compound or Teflon tape on all pipe fittings before installing (Do not use pipe joint compounds on flare fittings).**

**NOTE: THE FIREPLACE MUST BE OFF AND COLD BEFORE PERFORMING THE GAS CONVERSION.**

**ALL WARNINGS, PRECAUTIONS AND INSTRUCTIONS IN THE INSTALLATION AND OPERATION MANUAL PROVIDED WITH THE APPLIANCE APPLY TO THESE INSTRUCTIONS.**

**GENERAL INFORMATION**

Gas conversion kits are available to adapt the fireplace from the use of one type of gas to the use of another. These kits contain all the necessary components needed to complete the task including labeling that must be affixed to ensure safe operation.

**! IMPORTANT CANADA**

**The conversion shall be carried out in accordance with the requirements of the provincial authorities having jurisdiction and in accordance with the requirements of the CAN/CSA B149.1 Installation code.**

**! IMPORTANT LE CANADA SEULEMENT**

**La conversion devra être effectuée conformément aux recommandations des autorités provinciales ayant juridiction et conformément aux exigences du code d'installation CAN/CSA B149.1.**

**! WARNING**

**This conversion kit shall 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 performing this installation is responsible for the proper installation of this kit and assumes responsibility for this conversion. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturers instructions supplied with the kit. The qualified service agency performing this installation assumes responsibility for this conversion.**

**! AVERTISSEMENT**

**Cet équipement de conversion sera installé par une agence qualifiée de service conformément aux instructions du fabricant et toutes exigences et codes applicables de l'autorisés avoir la juridiction. Si l'information dans cette instruction n'est pas suivie exactement, un feu, explosion ou production de protoxyde de carbone peut résulter le dommages causer de propriété, perte ou blessure personnelle de vie. L'agence qualifiée de service est esponsable de l'installation propre de cet équipement. L'installation n'est pas propre et complète jusqu'à l'opération de l'appareil converti est chèque suivant les critères établis dans les instructions de propriétaire provisionnées avec l'équipement.**

**! IMPORTANT**

The burner orifice provided in this kit are only for use at elevations of 0 to 2,000 feet (610 M) in the USA and 0 to 4,500 feet (0-1372 M) in Canada. At higher elevations the BTU input must be de-rated by 4% for every 1,000 feet (305 M) to maintain the proper ratio of gas to air. If the installer must convert the unit to adjust for varying altitudes, a deration information sticker must be filled out by the installer and adhered to the appliance at the time of the conversion. Contact your local gas supplier for deration requirements for your area.

**INSTALLING GAS CONVERSION KITS**

**! CAUTION**

The gas supply shall be shut OFF prior to disconnecting the electrical power, before proceeding with the conversion.

**! ATTENTION**

Avant d'effectuer la conversion, coupez d'abord l'alimentation en gaz, ensuite, coupez l'alimentation électrique.

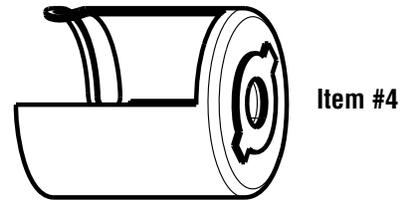
TURN OFF THE GAS SUPPLY TO THE FIREPLACE and disconnect power supply at the circuit breaker. Ensure fireplace is cold.

**ACCESSING FIREPLACE**

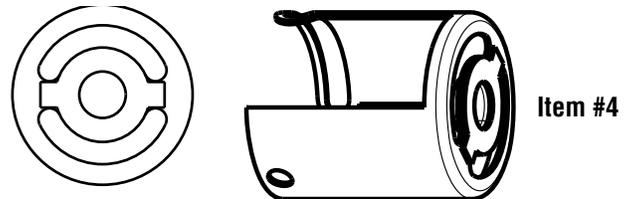
The gas control valve and main burner orifice are located under firebox floor of appliance and are accessed by removing the middle front refractory panel.

**BURNER AIR SHUTTER ADJUSTMENT**

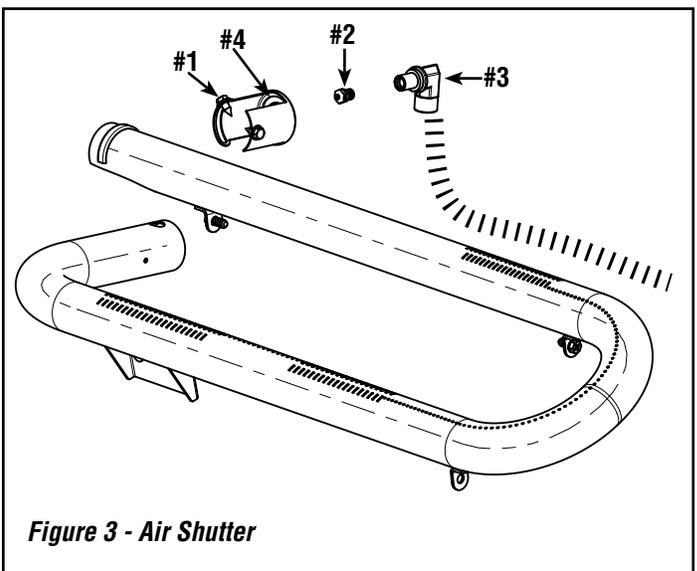
Adjust the air shutter per the instructions in *Figures 1, 2 and 3*.



*Figure 1 - Air Shutter for Natural Gas (NG)*



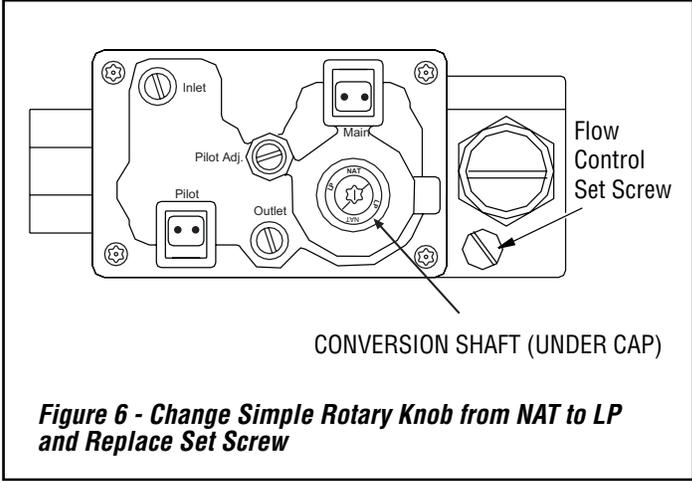
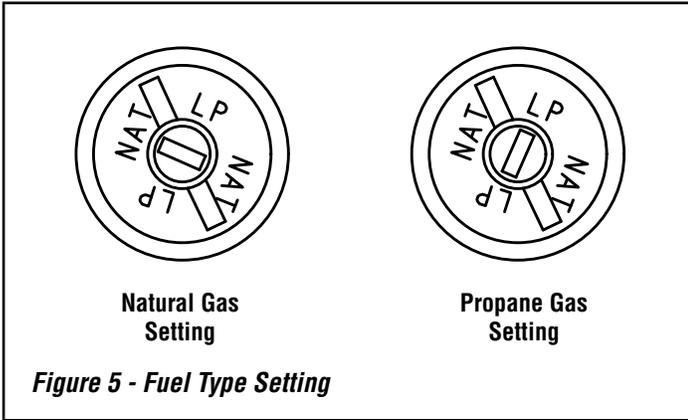
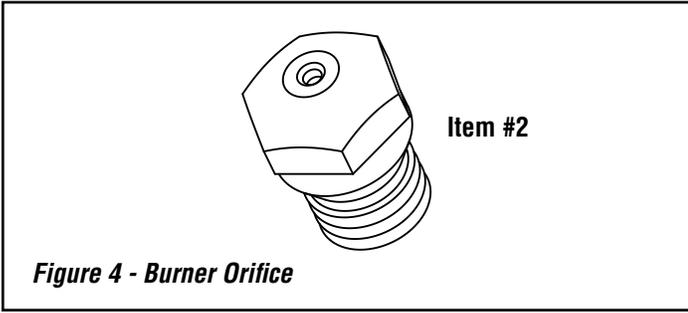
*Figure 2 - Air Shutter for Propane Gas (LP)*



*Figure 3 - Air Shutter*

**BURNER ORIFICE CONVERSION**

1. Remove 1/4" screw (Item #1) from air shutter (Item #4).
2. Gently slide air shutter/orifice assembly off burner.
3. Lean air shutter/orifice assembly back to expose the orifice (Item #2).
4. Remove orifice (Item #2) using 5/16" nutdriver and discard.
5. Remove air shutter (Item #4) from orifice holder (Item #3) by turning counter clockwise.
6. The air shutter must be changed during gas conversion. Retrieve air shutter (Item #4) that is provided with this kit and install on orifice holder (Item #3) by turning clockwise.
7. Install orifice (Item #2) provided with this kit using LP resistant thread sealant and 5/16" nutdriver.
8. Reinstall air shutter/ orifice assembly onto burner and reinstall the 1/4" screw (Item #1).



**CONVERSION LABELING AND PLACEMENT**

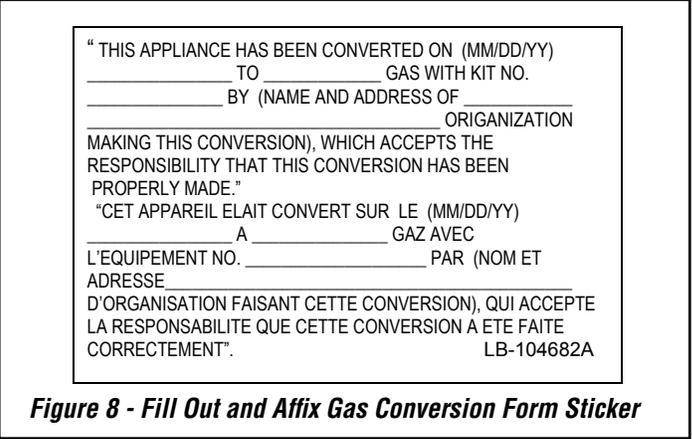
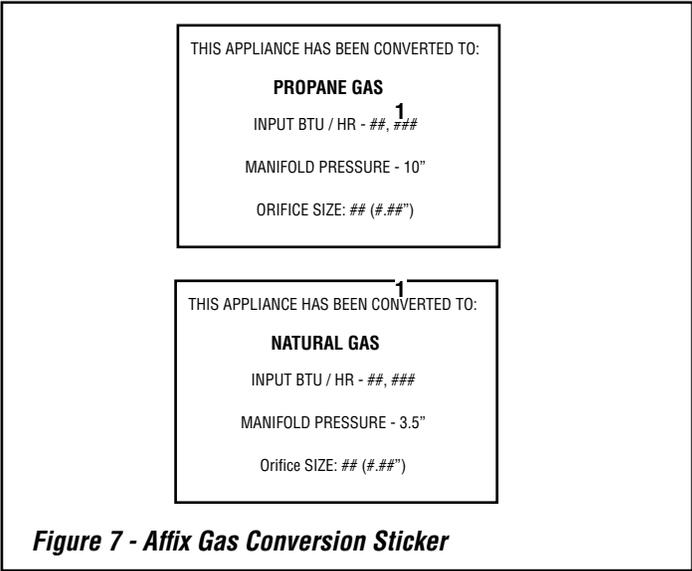
1. Apply conversion label over top of existing certification label (see Figure 7). Existing certification label is located on lighting instructions plate inside gas valve compartment area. With permanent ink, print previous model number on label in space provided (see Figure 7).
2. After filling data required on conversion information label (see Figure 8), affix it to floor of appliance where it is easily seen when bottom access door is removed.

**GAS CONTROL VALVE CONVERSION**

The gas control valve is convertible for use with propane/LP or natural gas by a simple rotary knob located on the front face of the valve (see Figure 6).

1. Remove front middle refractory panel.
2. Remove the rain shield exposing the control valve.
3. Locate the valve and remove the silver cap exposing the conversion shaft.
4. The conversion shaft can be pressed in and rotated 90 degrees to select the gas type.
5. The center of the conversion shaft has a indented line that shall line up with the gas type the unit is being converted to (see Figure 5).
6. After the conversion has been made, check the outlet pressure with a manometer. The factory setting on the internal regulator is 3.5" W.C. for natural and 10.5" W.C. for propane/LP.
7. Replace cover cap.
8. Remove flow control set screw and replace with set screw provided with this kit.

**NOTE:** In replacement and conversion use only new parts provided. When converting to different gas you must also change burner orifice and air shutter.



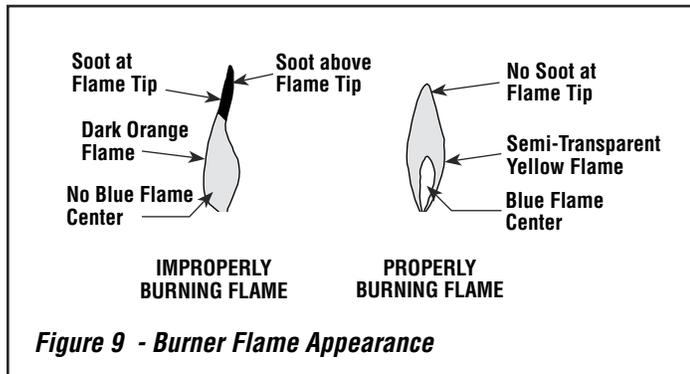
## FINAL PREPARATION

1. Leak check gas control and any connections you've made before operating appliance. Refer to Checking Gas Connections in owner's manual.

**⚠ WARNING: Test all gas piping and connections, internal and external to unit, for leaks after installing or servicing. Correct leaks at once.**

**⚠ WARNING: Never use an open flame to check for a leak. Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak. Correct all leaks at once.**

2. Light the fireplace. Follow the lighting procedure on the lighting label in the control compartment.
3. Allow the burner to operate for at least fifteen (15) minutes while observing the flame continuously to ensure that the proper flame appearance is achieved (*Figure 9*). If the following conditions are present:
  - Verify proper air shutter is installed (*Figures 1 and 2*)
  - Verify proper pressures and orifice size
4. The conversion is now complete.



## REFERENCE INFORMATION

Inlet Gas Supply Pressure (all models)		
Fuel #	Minimum	Maximum
Natural Gas	5.0" WC (1.24 kPa)	10.5" WC (2.61 kPa)
Propane	11.0" WC (2.74 kPa)	13.0" WC (3.23 kPa)

*Table 1*

Manifold Gas Supply Pressure (all models)	
Fuel #	High
Natural Gas	3.5" WC (0.87 kPa)
Propane	10.0" WC (2.49 kPa)

*Table 2*

Burner Orifice Sizes Elevation 0-4500 feet ( 0-1372 meters)		
Models	Nat. Gas drill size (inches)	Propane drill size (inches)
StarLiteLX36 / VRE3236	3.25mm (.128")	#49 (.073")
StarLiteLX42 / VRE3242	3.25mm (.128")	#49 (.073")

*Table 3*

BTU Input (BTU/Hr)	
Model No.	Input Rate (BTU/Hr)
Natural Gas	
StarLiteLX36ZEN / VRE3236ZEN	30,000 to 45,000
StarLiteLX42ZEN / VRE3242ZEN	30,000 to 45,000
Propane Gas (LP)	
StarLiteLX42ZEP / VRE3242ZEP	32,000 to 41,000
StarLiteLX42ZEP / VRE3242ZEP	32,000 to 41,000

*Table 4*

## TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting. If so, contact INNOVATIVE HEARTH PRODUCTS at [IHP.us.com](http://IHP.us.com).

Innovative Hearth Products (IHP) reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also to discontinue colors, styles and products. Consult your local distributor for fireplace code information.

