

GAS CONVERSION INSTRUCTIONS

OUTDOOR CONTEMPORARY GAS FIREPLACES

APPLIANCE MODEL NUMBER	NAT TO LP CONVERSION KIT NUMBER	LP TO NAT CONVERSION KIT NUMBER
OLP36FP72M, OLI24	32001	32002
OLP42FP72M, OLI30	32003	32004

WARNING

This conversion kit is to be installed by an Empire Comfort Systems, Inc., distributor (or other qualified agency¹) in accordance with the manufacturer's instructions and all codes and requirements of the authority having jurisdiction. Failure to follow instructions could result in serious injury or property damage. The qualified agency performing this work assumes responsibility for this conversion.

¹National Fuel Gas Code Z223.1 (Latest Edition)

*The term "qualified individual, firm, corporation or company which either in person or through a representative is engaged in and is responsible for (a) the installation of gas piping or (b) the connection, installation repair, or servicing of equipment, who is experienced in such work, familiar with all precautions required, and has complied with all the requirements of the authority having jurisdiction.

CHECK SAFETY SHUTDOWN PERFORMANCE

WARNING

Perform the safety shutdown test anytime work is done on a gas system to avoid the possibility of fire or explosion with property damage, personal injury or loss of life.

SAFETY SHUTDOWN SYSTEM

Intermittent Ignition Systems

100% Shutoff IP 90 Second Lockout

1. Using the remote control, select the burner "OFF" position. Main burner should go off.
2. Gas flow should stop within 30 seconds. Safety shutoff of gas proves complete shutdown since safety shutoff valve blocks flow of gas to main burner.
3. Re-light burner and operate system through one complete cycle to make sure all controls operate properly.

PARTS LIST					
CONVERSION KIT	32001 (NAT to LP)	32002 (LP to NAT)	32003 (NAT to LP)	32004 (LP to NAT)	QUANTITY SUPPLIED
Models Used On	OLP36FP72S	OLP36FP72S	OLP42FP72S	OLP42FP72S	
Main Burner Orifice	P245 (# 50)	P209 (# 31)	P265 (# 49)	P209 (# 31)	1
Minimum Rate Screw	R10869 (# 42)	R10868 (# 00)	R10869 (# 42)	R10868 (# 00)	1
Gas Conversion Label	23442-2139	23442-2139	23442-2139	23442-2139	1

OLP36FP72S - 36,000 BTU per hour
 OLP42FP72S - 40,000 BTU per hour

- The gas fireplace when converted to Natural gas will have a manifold pressure of approximately 3.5" w.c. (.871kPa) at the valve outlet with the inlet pressure to the valve from a minimum 4.5"w.c. (1.120kPa) for the purpose of input adjustment to a maximum of 14.0"w.c. (3.484kPa).
- The gas fireplace when converted to Propane gas will have a manifold pressure approximately 10.0"w.c. (2.49kPa) at the valve outlet with the inlet pressure to the valve from a minimum of 10.8"w.c. (2.68kPa) for the purpose of input adjustment to a maximum of 14.0"w.c. (3.48kPa).

- If the fireplace is installed, turn OFF gas and the electric supply to the fireplace before making gas conversion.
- Open the screen curtains, or remove the glass doors if installed.
- Remove the Burner Cover and set aside.
- Using a 1/4" nut driver, remove the air shutter screw from the air shutter.
- Shift the burner to the right a couple of inches so that the burner venturi tube is pulled away from the air shutter. This will allow access to the main burner orifice.
- Remove the air shutter by turning it counter-clockwise off of the orifice holder.
- Remove the main burner orifice from the orifice holder using a 3/8" wrench.
- Install the correct main burner orifice for the gas type being converted to. Verify that the orifice number included in the conversion kit matches the size specified for the fireplace model, and the gas type being converted to. Refer to the parts list chart above.
- Re-install the air shutter onto the orifice holder. Install the air shutter screw loosely prior to adjustment.
- Adjust the air shutter setting. The air shutter is located on the end of the venture tube under the burner assembly. Using a 1/4" nut driver, adjust the air shutter opening in accordance with the following settings:

OLP36FP72SN	1/8" open
OLP36FP72SP	Full open
OLP42FP72SN	1/8" open
OLP42FP72SP	Full open
- Once the air shutter setting is made, re-tighten the air shutter screw.

- Locate the gas valve. Unscrew the knurled cap on the gas valve to gain access to the regulator stem. See Figure 1.

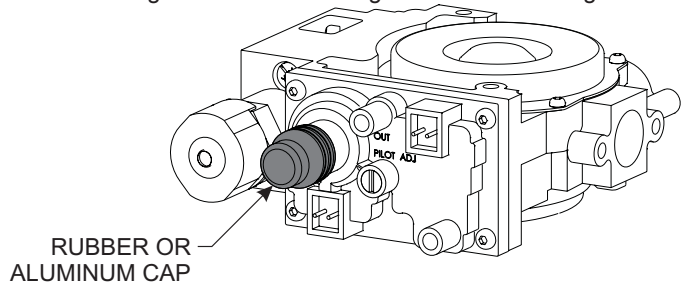


Figure 1

Using your fingers gently push in and rotate the stem to the desired gas setting. For LP gas, the plastic stem will set to the inward position. See Figure 2.

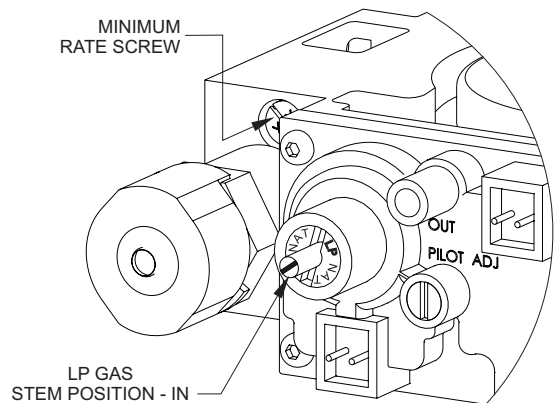


Figure 2

For Natural gas, the plastic stem will set to the outward position. See Figure 3. Do not force rotation of the regulator stem. Never use tools to make this adjustment.

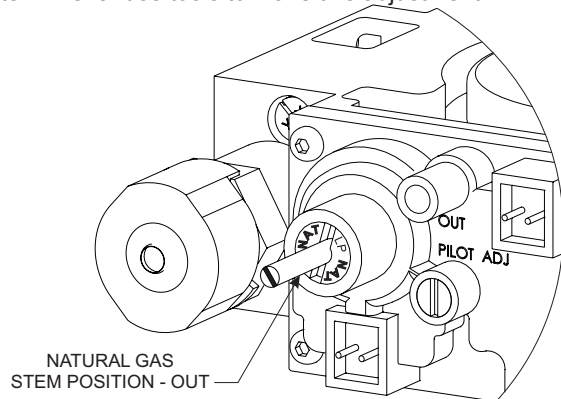


Figure 3

13. Remove the brass minimum rate screw located on the front of the valve. Using a small straight blade screwdriver, unscrew the minimum rate screw as far as it will go. A rubber seal will keep it from falling out, so use a small pocket-knife blade or screwdriver to gently pry the plug out. Replace the minimum rate screw with the one in the Conversion kit intended for the gas type being converted to. Refer to chart above.
 14. Check all gas connections for leaks.
 15. Verify the proper gas line and manifold pressures are correct. Natural gas manifold pressure to be at 3.5" WC, and LP (propane) gas manifold pressure to be at 10.0" WC.
 16. Replace the Burner Cover.
 17. The converted fireplace must be connected to a supply of the conversion gas and checked for leaks at all connections.
 18. Fill out the Conversion label with required information, then secure it near the existing fireplace rating label.
 19. Gas conversion is complete.
- The main burner flame and pilot burner flame must be checked for proper flame characteristics, as outlined in the Installation Instructions and Owner's Manual.

Verifying Input Rate of Converted Fireplace

The input of the fireplace must be checked as follows:

1. Turn off all other gas appliances. Clock the gas meter and determine the number of seconds required to consume one cubic foot of gas.
2. $3600 \div \text{time (in seconds)} = \text{cu. Ft. per hour.}$
3. Then $\text{cu. Ft. per hour} \times \text{heating value of gas} = \text{input rate (Btuh)}$. On installation without gas meters, check manifold for proper pressure.

If fireplace is not installed or warranty card has not been returned to Empire Comfort System's, Inc., check off type of gas converted to on card. Also, indicated conversion by adding "Conv." behind type of gas.



**Empire Comfort Systems Inc.
Belleville, IL**

If you have a general question about our products, please e-mail us at info@empirecomfort.com.

If you have a service or repair question, please contact your dealer.

www.empirecomfort.com