



**MODEL: ECO-VK-LPK-18  
ECO-VK-LPK-24**

## INSTALLATION INSTRUCTIONS

IF YOU CANNOT READ OR UNDERSTAND THESE INSTALLATION INSTRUCTIONS  
DO NOT ATTEMPT TO INSTALL OR OPERATE

**DESCRIPTION:** This conversion kit is designed to change the ECO-VK-SP-MHL from Natural gas to LP gas.



Vermiculite



**Notice: Please leave these instructions for the consumer. Retain for future reference**

**Warning:** Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual for assistance or for additional information consult a qualified installer, service agency or gas supplier.

### FOR YOUR SAFETY

#### WHAT TO DO IF YOU SMELL GAS

- Do not try to light the appliance.
- Do not touch any electrical switch.
- Do not use any phone in your building.
- Immediately call you gas supplier from a neighbor's phone. Follow the gas suppliers instructions.
- If you cannot reach your gas supplier call the fire department.

**Important:** Read these instructions carefully before starting installation of your log set.

### FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

**Be sure Flue Damper and Glass Doors are fully open when operating any vented gas log set.**

**Young children should be carefully supervised when they are in same room as the appliance.**

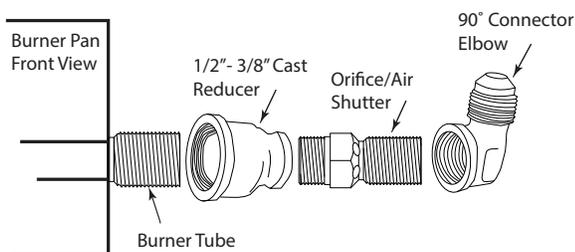
## Conversion Precautions:

These instructions must be used as a supplement to the instructions supplied with the gas valve kit. Follow the gas valve kit instructions and log set instructions supplied by the manufacturers on the set up of the gas valve kit, burner pan, log basket grate, burner media, ember material and the logs placement. Please follow these instructions on the conversion of the burner pan and pilot assembly from natural gas to propane gas. If this fireplace installation has glass doors, only operate the gas logs with glass doors in the fully open position. When converting the valve kit ensure the gas is turned OFF and the log set is cool to touch.

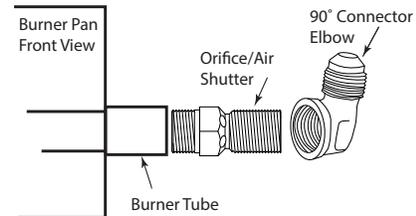
This instruction covers both Pre-Installed/Existing Log Sets and New Gas Log Set installation for converting from Natural gas to LP gas. Follow the appropriate section per your installation.

## Converting a Pre-Installed (Existing) Log Set Section

1. Make sure the main gas supply is completely turned OFF at the gas log set. Make sure you have a certified and approved shut-off within 6-feet of the fireplace, or per the local inspection authority requirements.
2. Remove all logs and basket grate and set aside. **NOTE:** It is recommended to place the logs on a protective drop cloth to prevent getting soot on the household carpet.
3. Remove the sand from burner pan and discard.
4. Remove gas line from the valve to the burner pan, then remove the fitting and natural gas orifice on the burner pan.
5. Install to the burner pan the Orifice/Air Shutter and 90° Connector Elbow and Reducer (if needed) supplied with ECO-VK-LPK-18/24 Conversion kit (Refer to figure #1 or figure #2 for examples). Connect the gas line from the valve to the connector elbow. **NOTE:** Always use Teflon tape or pipe joint compound to seal NPT threads. Flared fittings do not require Teflon tape or pipe compound on the flared end.



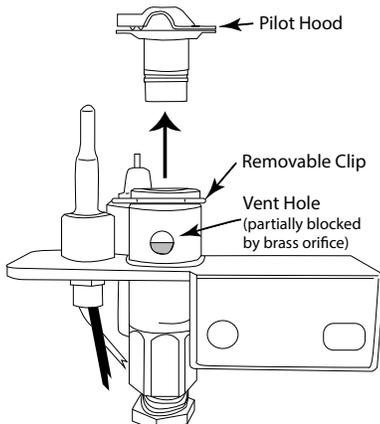
**Fig. 1** Connecting to a burnerpan nipple with 1/2 " NPT male threads.



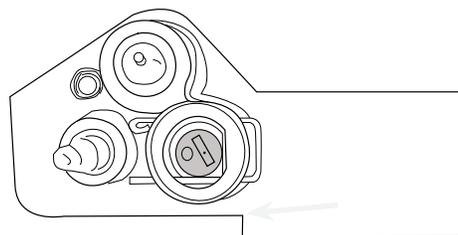
**Fig. 2** Connecting to a burner pan nipple with a 3/8 " NPT female threads.

## Pilot Conversion

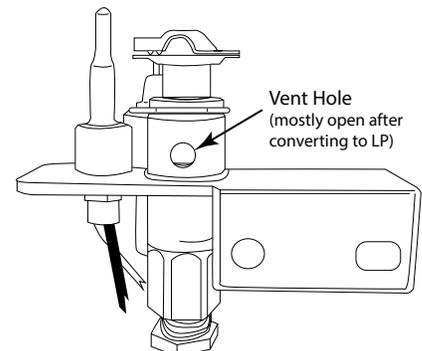
6. Convert the pilot assembly from Natural Gas (NG) to Liquid Propane (LP) by removing the pilot hood (flame spreader) from the pilot assembly. Carefully lift upward as shown in figure #3. **NOTE:** The hood should pull off without removing the clip however if it is too tight you may need to remove the wire clip under the hood then lift the hood off the pilot assembly.
7. Use a small slotted screwdriver reach down inside the pilot assembly (inside area where pilot hood sits) and turn the brass slot inside clockwise until it stops (approximately 2 full revolutions). This process changes the pilot orifice to LP gas.
8. Replace the pilot hood. The pilot is now converted.



**Fig. 3** Removing pilot hood by lifting upward from pilot assembly.

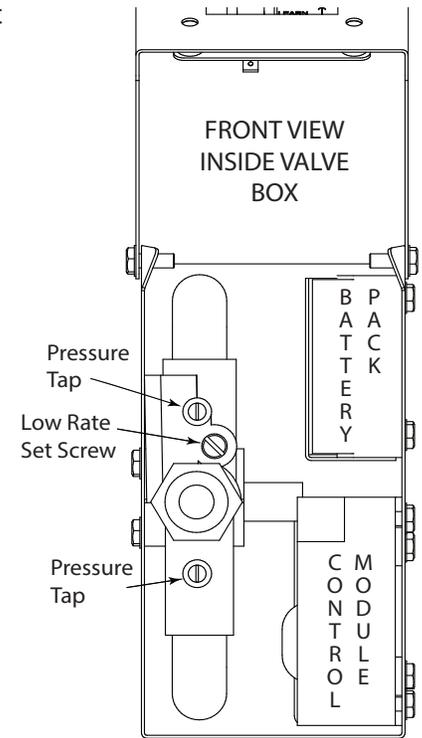


**Fig. 4** Top view of brass slot (shaded area) in pilot assembly.



**Fig. 5** Shows pilot converted with brass orifice lowered inside vent hole.

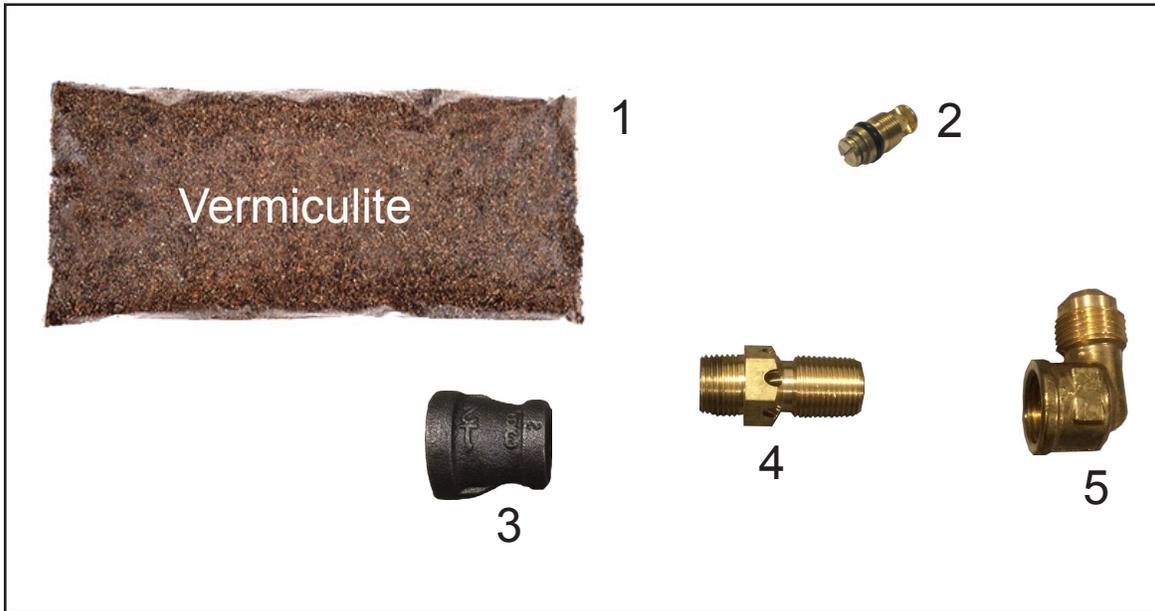
9. Replace the low rate set screw by lifting the valve box lid (See Fig. 6) and using a slotted screwdriver. Locate the screw and turn it counterclockwise until it does not back out, then use needle-nose pliers to pull it out. Replace it with the new #47 low rate screw and secure it back into place. **NOTE:** The low rate screw will not screw completely out of the gas valve because of a rubber o-ring keeps it sealed. This is why needle-nose pliers are needed to remove it completely.
10. Install the media (vermiculite) supplied with the ECO-VK-LPK-18/24 into the burner pan covering the burner tube and level with the top of the pan. **NOTE:** If vermiculite does not completely cover the pan, then order another bag.
11. Follow valve pilot lighting instructions. After pilot is lit, check pilot fittings and all other gas fittings for leaks with an approved method.
12. Reinstall basket grate and logs.



**Fig. 6** Location of low rate set screw.

### Converting a New Log Set Section

1. Make sure all gas is completely turned OFF to the fireplace. Make sure you have a certified and approved shut-off is within 6-feet of the fireplace, or per local inspection authority requirements.
2. Follow the instructions supplied with the valve kit and the log set manufacturers instructions on setting of the valve assembly and the log set.
3. Install the orifice/air shutter and 90° connector elbow to the burner pan and reducer (if needed) supplied with the ECO-VK-LPK-18/24 conversion kit (Refer to Figure #1 and #2 examples.) Connect the gas line from the valve to the connector elbow. **NOTE:** Always use Teflon tape or pipe compound to seal NPT threads. Flared fittings do not require Teflon tape or pipe compound on the flared end.
4. Convert the pilot assembly from Natural Gas (NG) to Liquid Propane (LP) by removing the pilot hood (flame spreader) from the pilot assembly. Gently lift upward as shown in figure #3. **NOTE:** If the hood is too tight you may need to slide
5. the wire clip under the hood out then lift the hood off the pilot assembly.
6. Use a small slotted screwdriver reach down inside the pilot assembly (inside area where pilot hood sits) and turn the
7. brass slot inside clockwise until it stops (approximately 2 full revolutions). This process changes the pilot orifice to LP gas.
8. Replace the pilot hood. The pilot is now converted.
9. Replace the low rate set screw by lifting the valve box lid (See Fig. 6) and using a slotted screwdriver. Locate the screw and turn it counterclockwise until it does not back out, then use needle-nose pliers to pull it out. Replace it with the new #47 low rate screw and secure it back into place. **NOTE:** The low rate screw will not screw completely out of the gas valve because of a rubber o-ring keeps it sealed. This is why needle-nose pliers are needed to remove it completely.
10. Install the media (vermiculite) supplied with the ECO-VK-LPK-18/24 into the burner pan covering the burner tube and level with the top of the pan. **NOTE:** If vermiculite does not completely cover the pan, then order another bag.
11. Follow valve pilot lighting instructions. After pilot is lit check pilot fittings and all other gas fittings for leaks.
12. Reinstall basket grate and logs.



Item#	Description	Part #
1	Vermiculite	6857-16
2	Low Rate Screw #47	ECOLSS-47
3	1/2" to 3/8" Cast Iron Reducer	6857-13
4	Orifice Air Shutter # 50 for 18-inch log sets	6857-14
4	Orifice Air Shutter # 42 for 24-inch log sets	6857-15
5	90° Brass Elbow (flared on one end)	6857-12

#### Limited Warranty

Skytech warrants the ECO-VK-SP-MH-L valve kit for 12 months from the date of purchase or installation to the original purchaser to be free from defects in materials and workmanship. Damage to the ECO-VK-SP-MH-L valve kit caused by accident, misuse, abuse, or installation error, whether performed by a contractor, Service Company, or owner, is not covered by this warranty. American Flame will not be responsible for labor charges and/or damage incurred in installation, repair, replacement, or for incidental or consequential damage. Some states, provinces, and nations do not allow exclusion or limitations of incidental or consequential damages, so the above limitations or exclusions may not apply.

This warranty gives you specific legal rights. You may also have other rights that vary by state, province, or nation.

**FOR TECHNICAL QUESTIONS, CALL: (855) 498-8324**

For Sales: (888) 672-8929

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