

# INSTALLER GUIDE GAS CONVERSION

**FOR USE ON: DVLXG55BP90N-1 / DVLXG55SP90N-1 CONVERSION KIT  
PART NUMBER CKZ01 FOR CONVERSION TO PROPANE GAS**

## **WARNING**

This conversion kit must be installed by an Empire Comfort Systems distributor (or other qualified agency)\*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 Pilot System

1. Turn "OFF" using remote control. Main burner and pilot should go off.
2. Pilot gas flow should stop within 30 seconds.

### PARTS LIST

Parts Description	Conversion Kit	Quantity Supplied
Pilot Orifice #27	ESC804104	1
Center Burner Orifice 1.2mm	ESC230095	1
Side Burner Orifice 1.05mm	ESCG2295	2
Burner Aeration Shutters	ESC150063	3
SIT Gas Valve Conversion Kit	R11382	1
Gas Conversion Label	2139	1

### TOOLS NEEDED:

Slotted Screwdriver      Phillips Screwdriver      Socket Set

### Gas input for direct-vent fireplace converted to Propane Gas: DVLXG55BP90N-1 /

**DVLXG55SP90N-1** The direct-vent gas fireplace when converted to Propane Gas will have a manifold pressure of approximately 10.0 inches w.c. (2.49kPa) at the valve outlet with the inlet pressure to the valve from a minimum of 10.8 inches w.c. (2.68kPa) for the purpose of input adjustment to a maximum of 14.0 inches w.c. (3.484kPa).

## INSTRUCTIONS FOR CONVERSION

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1. If the fireplace is installed, turn OFF gas and electric supply to fireplace before making gas conversion. Allow fireplace to cool completely.

#### WARNING

1. Avoid breaking the glass.
2. Do not operate this appliance without the glass or with broken glass. Have a qualified service person replace damaged glass and gasket using materials specified by Empire Comfort Systems.
3. Do not abuse or strike the glass.
4. The use of substitute glass will void all product warranties.

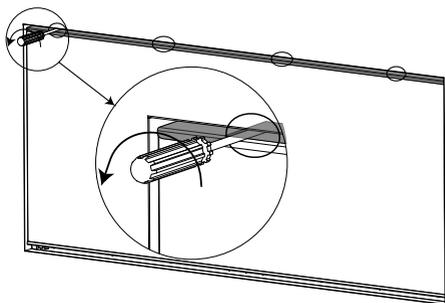
#### WARNING

Do not operate the appliance with the glass removed, cracked, or broken.

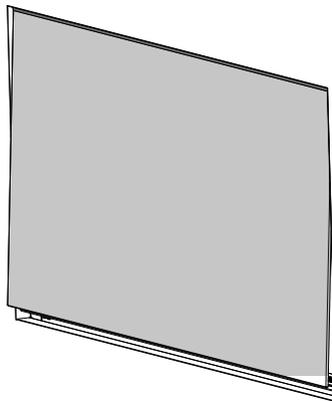
### REMOVAL OF GLASS

To remove the glass for conversion, follow the instructions shown here.

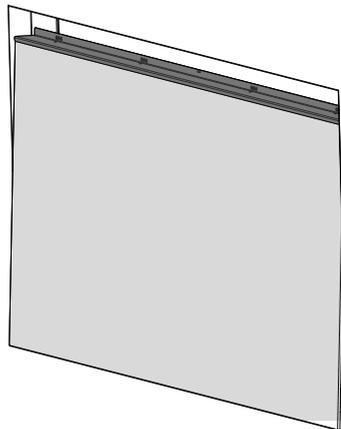
2. Put suction cups on the outer glass.
3. Loosen the four (4) 1/4 turn fasteners.



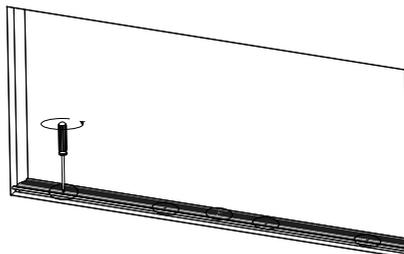
4. Lift the glass up and tilt the bottom of the glass out.



5. Remove the glass from the fireplace and set to the side. Be aware that if soot is present on the glass it may stain carpet or furnishings.

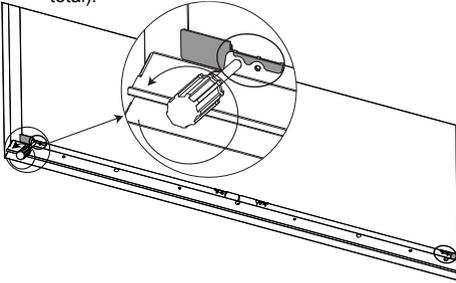


6. Remove the fuel bed on the secondary infill.
7. Remove the six (6) screws securing the infill and take the infill out.

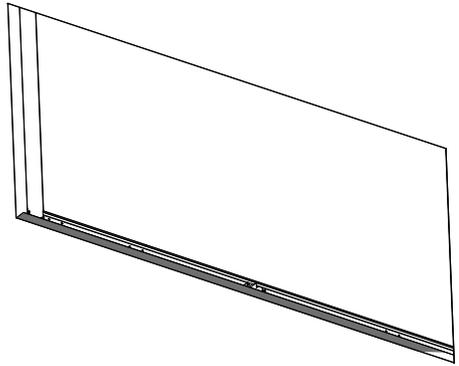


## INSTRUCTIONS FOR CONVERSION

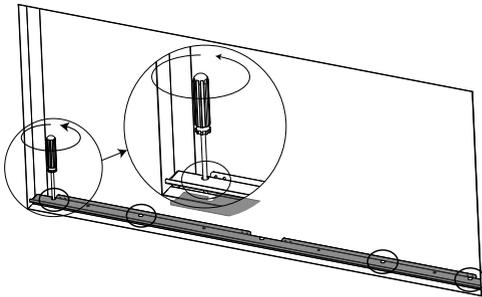
8. Remove the two (2) light blockers. Each will have two (2) screws securing it (4 screws in total).



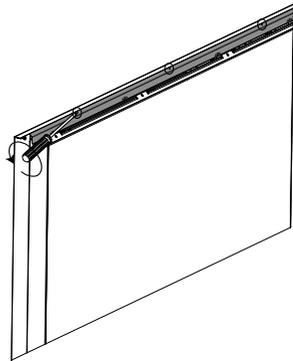
11. Lift the bottom trim out.



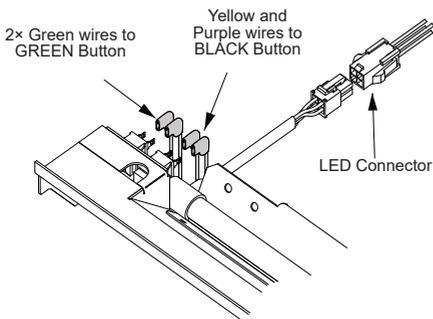
9. Remove the four (4) screws securing the bottom glass retainer assembly.



12. Remove the top glass retainer mount, which is secured with three (3) screws.

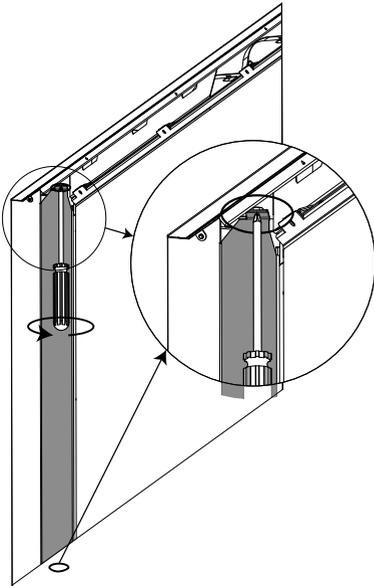


10. Lift the bottom glass retainer assembly out a little. Disconnect the wires on the left side of the wiring harness and set it to the side.

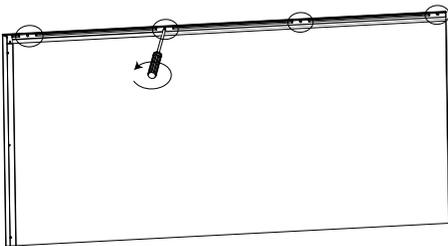


## INSTRUCTIONS FOR CONVERSIONS

13. Remove the two (2) side panels by undoing the top and bottom screw in each.



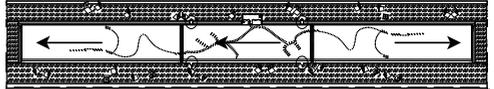
14. Put the suction cups on the inner glass.  
15. Loosen the four (4) 1/4 turn fasteners and remove the glass retainer.



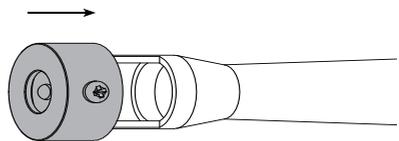
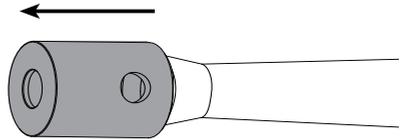
16. Tilt the glass towards yourself and lift it out. Be aware that if any soot is present on the glass, it may stain carpet or furnishings. Set the glass aside and use a fireplace glass cleaner to clean the glass.

### REMOVING THE INFILL AND BURNERS

17. Remove all components of the fuelbed, taking care not to damage any fuelbed media.
18. Remove the infill by unscrewing the four screws (circled below), lift it from the firebox by lifting one end up into the top corner and then out towards you. Take care not to scratch the firebox paint.



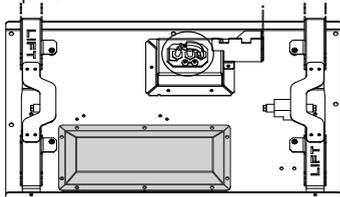
19. Lift out the burners in the direction shown above and remove the aeration shutters on the burner pipes (shown below), replace with aeration shutters with the 3 provided in conversion kit.



## INSTRUCTIONS FOR CONVERSIONS

### LOCATING THE GAS VALVE

20. With the glass, infill, and burners removed, remove the ten screws from the access hatch on control tray, shaded gray below. The valve can now be accessed to convert from NG to Propane.



21. Using the SIT gas valve conversion kit supplied, convert the valve from NG to propane using the instructions provided within this kit for guidance.
22. Once the valve has been converted replace the access hatch and ensure a good seal is made when securing the ten screws into place.
23. Change the three main burner orifices and the pilot orifice, use the table below to ensure you have the correct sizes.

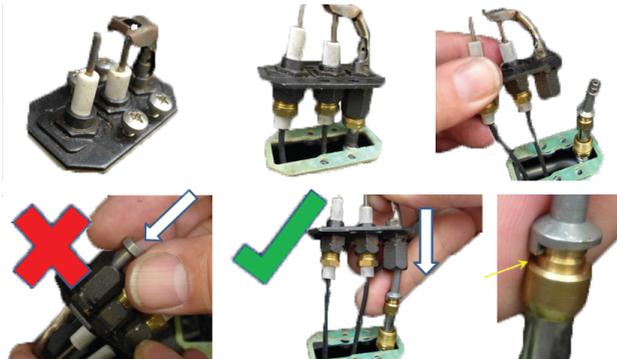
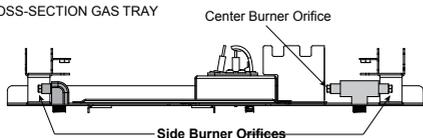
Propane		
Center Burner	Side Burners	Pilot
Ø1.2mm	Ø1.05mm	#27

24. Replace the pilot orifice (see image at bottom of page), by removing the four screws holding the pilot assembly in place. NOTE: Ensure the pilot jet is joined up to the olive before inserting the orifice into the pilot assembly.
25. Replace the Burners, Infill and fuelbed media before reinstalling the primary and secondary glass assemblies, following steps 2-19 in reverse order.
26. Turn gas and electric on.
27. Gas conversion completed.

Check the burner flames and pilot burner flame for proper flame characteristics, as outlined in the Installation Instructions and Owner's Manual.

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

CROSS-SECTION GAS TRAY





**Empire Comfort Systems Inc.  
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If you have a general question  
about our products, please e-mail  
us at [info@empirecomfort.com](mailto:info@empirecomfort.com).

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

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