



P/N 900268-00
Rev. NC 10/2014

HEARTH PRODUCTS
KITS AND ACCESSORIES

GAS CONVERSION KITS
MLDVT, MLDVTC, MLBV, SLBV, SLDVT, EDV

**INSTALLATION INSTRUCTIONS FOR GAS CONVERSION KITS. FOR USE
WITH MLDVT, MLDVTC, MLBV, SLBV, SLDVT, AND EDV GAS FIREPLACES**

⚠ 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 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. The qualified service agency performing this installation assumes responsibility for this conversion.

⚠ AVERTISSEMENT

Cette trousse de conversion doit être installée par un technicien agréé, selon les instructions du fabricant et selon toutes les exigences et tous les codes pertinents de l'autorité compétente. Assurez-vous de bien suivre les instructions dans cette notice pour réduire au minimum le risque d'incendie, d'explosion ou la production de monoxyde de carbone pouvant causer des dommages matériels, des blessures ou la mort. Le technicien agréé est responsable de l'installation de cette trousse. L'installation n'est pas adéquate ni complète tant que le bon fonctionnement de l'appareil converti n'a pas été vérifié selon les instructions du fabricant fournies avec la trousse. Le fournisseur de service qualifié ayant réalisé l'installation assume les responsabilités liées à la conversion.

KIT CONTENTS

Brass Orifice (1)
SIT Regulator LP or NG Conversion Kit (1)
Valve Identification Label (1)
Pilot Orifice Injector (1)
Conversion Label (1)

REQUIRED TOOLS

5/32" Allen wrench
Torx T20 driver
1/2" Deep well socket, or Open-end wrench
5/16" Hex-head nut driver
5/8" Open-end wrench
Manometer

GENERAL INFORMATION

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

**ALL WARNINGS, PRECAUTIONS AND IN-
STRUCTIONS IN THE INSTALLATION INSTRU-
CTIONS AND CARE AND OPERATION MANUALS
PROVIDED WITH THE APPLIANCE APPLY TO
THESE INSTRUCTIONS.**

Electronic SIT Systems Propane Gas To Natural Gas Conversion Kits	
Models	Catalog No.
MLDVT30-2	H8923
MLDVT35-2	H8924
MLDVT40-2	H8846
MLDVT45-2	H8925
MLDVTC35-2	H8926
SLDVT30-2	H8923
SLDVT35-2	H8924
SLDVT40-2	H8846
SLDVT45-2	H8925
MLBV35-2 / SLBV35-2	H8927
MLBV40-2 / SLBV40-2	H8928
EDV35	H9103
EDV40	H9104
EDV45	H9105

Millivolt SIT Systems Propane Gas To Natural Gas Conversion Kits	
Models	Catalog No.
MLDVT-30	H6165
MLDVT-35	H7293
MLDVT-40	H7294
MLDVT-45	H5L66
MLDVTC-35	H7293
SLDVT-30	H6165
SLDVT-35	H7293
SLDVT-40	H7294
SLDVT-45	H5L66
MLBV-35 / SLBV-35	H8271
MLBV-40 / SLBV-40	H7675

Electronic SIT Systems Natural Gas To Propane Gas Conversion Kits	
Models	Catalog No.
MLDVT30-2	H8920
MLDVT35-2	H8917
MLDVT40-2	H8634
MLDVT45-2	H8919
MLDVTC35-2	H8921
SLDVT30-2	H8916
SLDVT35-2	H8917
SLDVT40-2	H8918
SLDVT45-2	H8919
MLBV35-2 / SLBV35-2	H8922
MLBV40-2 / SLBV40-2	H8634
EDV35	H9100
EDV40	H9101
EDV45	H9102

Millivolt SIT Systems Natural Gas To Propane Gas Conversion Kits	
Models	Catalog No.
MLDVT-30	H7672
MLDVT-35	H7292
MLDVT-40	H7673
MLDVT-45	H7546
MLDVTC-35	H7292
SLDVT-30	H6163
SLDVT-35	H7292
SLDVT-40	H6975
SLDVT-45	H7546
MLBV-35 / SLBV-35	H8270
MLBV-40 / SLBV-40	H7673

If you encounter any problems, need clarification of these instructions or are not qualified to properly install this kit, contact your local distributor or dealer.

Gas conversion kits are available to adapt your appliance 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.

When installing gas components use pipe joint compound or teflon tape on all pipe fittings before installing (ensure propane resistant compounds are used, do not use pipe joint compounds on flare fittings).

THE BURNER ORIFICES PROVIDED IN THIS KIT ARE ONLY FOR USE AT ELEVATIONS OF 0 TO 4,500 FEET (0-1372 M). 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.

In 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/CGA-B149.1 INSTALLATION CODE.

LA CONVERSION DEVRA ÊTRE EFFECTUÉE CONFORMÉMENT AUX RECOMMANDATIONS DES AUTORITÉS PROVINCIALES AYANT JURISDICTION ET CONFORMÉMENT AUX EXIGENCES DU CODE D'INSTALLATION CAN/CGA-B149.1.

Read this instruction sheet in its entirety before beginning the installation.

INSTALLATION INSTRUCTIONS

Step 1. TURN OFF THE GAS SUPPLY TO THE APPLIANCE and disconnect power supply at the circuit breaker. Ensure the appliance is cold.

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.

Step 2. Open the lower control compartment door. The door is hinged at the bottom. Optionally, remove the control compartment door by sliding the door to the left or right until it disengages from the corner post hole.

Step 3. Carefully remove the glass door, logs, grate, and subfloor. Exercise care so as not to break the logs.

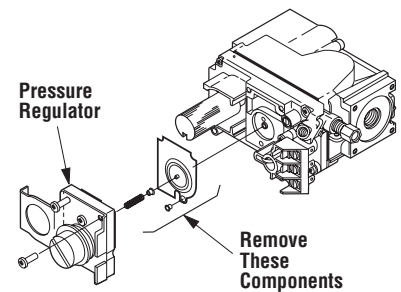
Step 4. Remove the two (2) screws securing the burner assembly, and remove the burner assembly and the attached venturi tube.

Step 5. Refer to the instructions provided with the SIT Regulator Conversion Kit. Using a Torx T20 driver (with 1/4" shank) or slotted screwdriver, remove and discard the pressure regulator mounting screws (two screws for electronic, three for millivolt), pressure regulator tower, the diaphragm assembly (if applicable), and the spring. Discard all removed components (see *Figure 1*).

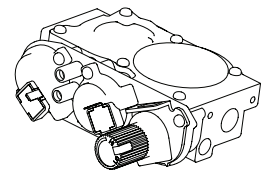
Step 6. Install the new pressure regulator assembly using the supplied screws. Tighten the screws to 25 in. lbs (see *Figure 1*).

Step 7. Install the enclosed identification label to the valve body where it can be easily seen.

Step 8. For pilots using the new clip design, remove the clip securing the pilot hood assembly. For pilots using the old clip design, do not remove the clip (see *Figure 2*).



Millivolt Valve

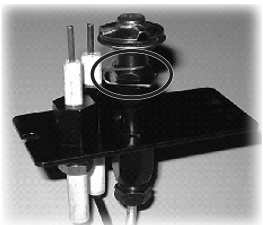


Electronic Valve

Figure 1 - Regulator Conversion



Old Clip



New Clip

Figure 2 - Pilot Hood Assembly Clip

Step 9. For pilots using the old clip design, pull up sharply on the pilot hood to remove it (see **Figures 2 and 3**). Remove the pilot hood assembly to access the hex head pilot orifice. Remove and replace the pilot orifice with the one provided in the kit. Reinstall the pilot hood assembly (see **Figure 3**).

NOTE: Take care not to damage the igniter assembly.

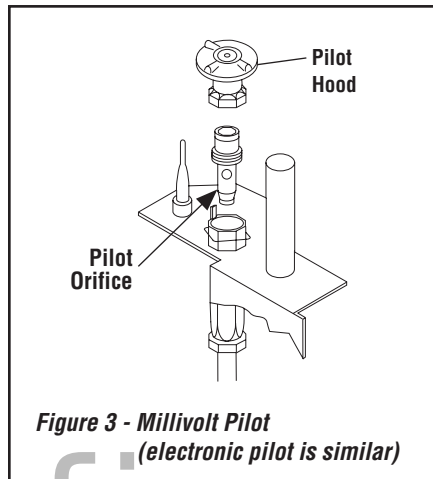


Figure 3 - Millivolt Pilot
(electronic pilot is similar)

Step 10. Using an 1/2" deep socket or pen-end wrench, remove the burner orifice from the manifold and replace it with the one provided in the kit. See **Table 1** for correct orifice sizes.

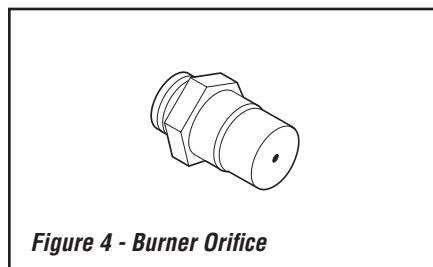


Figure 4 - Burner Orifice

Step 11. Use pipe joint compound or Teflon® tape on all pipe fittings before installing (ensure propane resistant compounds are used in propane applications, do not use pipe joint compounds on flare fittings).

Burner Orifice Sizes Elevation 0-4500 feet (0-1372 meters)		
Model	Nat. Gas drill size (inches)	Propane drill size (inches)
SLBV-35	#48 (0.076")* H1236•	#56 (0.046")* 62L37•
SLBV-40	#43 (0.089")* 99K75•	#55 (0.052")* 19L52•
MLBV-35	#48 (0.076")* H1236•	#56 (0.046")* 62L37•
MLBV-40	#43 (0.089")* 99K75•	#55 (0.052")* 19L52•
MLDVT-30	#50 (0.070")* H4873•	#59 (0.041")* H7838•
MLDVT-35	(0.0748")* H1355•	(0.045")* 75L10•
MLDVT-40	#44 (0.086")* 60J80•	#55 (0.052")* 19L52•
MLDVT-45	(0.090")* 37L70•	#54 (0.055")* 99K79•
MLDVTC-35	#49 (0.073")* 21L82•	(0.045")* 75L10•
SLDVT-30	#50 (0.070")* H4873•	#61 (0.039")* 35M91•
SLDVT-35	(0.0748")* H1355•	(0.045")* 75L10•
SLDVT-40	#44 (0.086")* 60J80•	(0.048")* 99K78•
SLDVT-45	(0.090")* 37L70•	#54 (0.055")* 99K79•
EDV35	#42 (0.0935")* H3721 •	(0.0570")* H8998 •
EDV40	#40 (0.0980")* 69L96 •	#53 (0.0595")* 39L10 •
EDV45	#37 (0.1040")* 24M10 •	(0.0620")* 21L01 •

Table 1 *Standard size installed at factory.
• Part /Catalog Number.

Step 12. Retrieve the burner and hold the venturi tube above the orifice. Place the shutter adjusting rod in the slot of the shutter arm. Set the burner assembly in position and secure the trapezoidal plate with the two (2) screws previously removed.

Step 13. Reassemble the remaining components by reversing the procedures outlined in the **Steps 1-4**.

Step 14. Turn on the gas supply and test for gas leaks:

- Light the appliance (refer to the lighting instructions label in the control compartment or in the Care and Operation Instructions manual).
- Brush all joints and connections with the gas leak test solution to check for leaks. If bubbles are formed, or gas odor is detected, turn the gas control knob (off/pilot/on) to the "OFF" position (millivolt units), or turn the receiver or remote control to the "OFF" position (electronic units). Either tighten or refasten the leaking connection, then retest as described above.
- When the gas lines are tested and leak free, be sure to rinse off the leak testing solution.

Step 15. Attach the conversion label provided in the conversion kit next to the rating plate on the appliance.

Step 16. Relight the main burner. The lighting instructions can be found on the lighting label in the control compartment or in the Care and Operations Instructions provided with the appliance. Verify proper burner ignition and operation. See **Figure 5**.

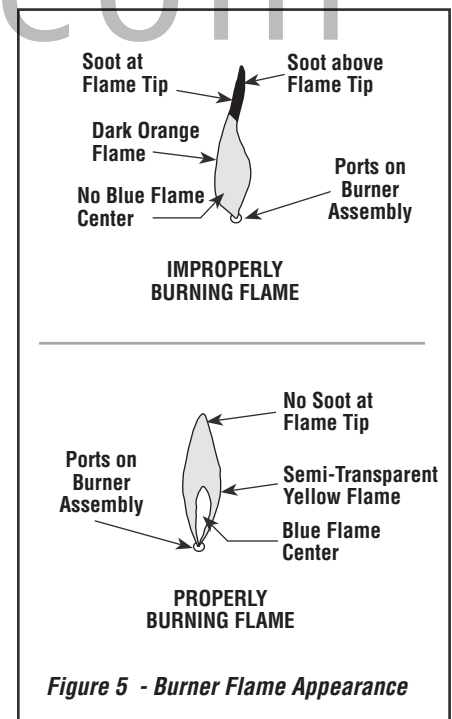
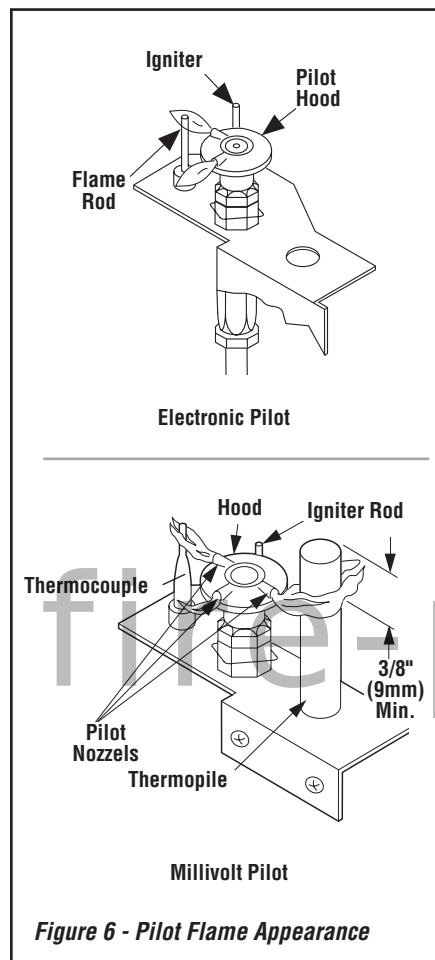


Figure 5 - Burner Flame Appearance

Step 17. Inspect the pilot system for proper flame. The pilot flame should engulf the flame sensor as shown in **Figure 6**. If necessary, adjust pilot flame using the pilot adjustment screw on the valve.



Step 18. Using a manometer, test the inlet and manifold gas pressures. See **Tables 2 and 3**.

ALWAYS TEST PRESSURES WITH THE VALVE REGULATOR CONTROL AT THE HIGHEST SETTING.

Inlet Gas Supply Pressure (all models)		
Fuel #	Minimum	Maximum
Natural Gas	4.5" WC (1.12 kPa)	10.5" WC (2.61 kPa)
Propane	11.0" WC (2.74 kPa)	13.0" WC (3.23 kPa)

Table 2

Manifold Gas Supply Pressure (all models)		
Fuel #	Low	High
Natural Gas	(Lo) 2.2" WC (0.55 kPa)	(Hi) 3.5" WC (0.87 kPa)
Propane	(Lo) 6.3" WC (1.57 kPa)	(Hi) 10.0" WC (2.49 kPa)

Table 3

Step 19. Inspect the burner for proper flame appearance (see **Figure 5**). If necessary, adjust the burner air shutter for proper flame appearance. **NOTE:** Refer to the fireplace Care and Operation Manual for images showing proper burner flame appearance.

The BTU input ratings for these appliances are shown in **Table 4**.

BTU Input Ratings		
Model	Natural Gas	Propane Gas
	Input Rate (BTU/HR)	Input Rate (BTU/HR)
MLDVT30	13,500 high 10,500 low	12,500 high 9,000 low
MLDVT35	16,000 high 12,500 low	15,000 high 11,500 low
MLDVT40	20,000 high 15,500 low	20,000 high 15,800 low
MLDVT45	23,000 high 17,500 low	22,000 high 17,000 low
MLDVTCD35	14,500 high 11,500 low	13,500 high 10,500 low
SLDVT30	13,500 high 10,000 low	11,500 high 9,000 low
SLDVT35	16,000 high 12,750 low	15,000 high 11,400 low
SLDVT40	20,000 high 15,500 low	18,000 high 14,000 low
SLDVT45	23,000 high 17,500 low	22,000 high 17,000 low
MLBV35	17,000 high 13,000 low	17,000 high 14,000 low
MLBV40	22,000 high 17,000 low	20,000 high 15,500 low
SLBV35	17,000 high 13,000 low	17,000 high 14,000 low
SLBV40	22,000 high 17,000 low	20,000 high 15,500 low
EDV35	25,000 high 19,000 low	24,000 high 18,000 low
EDV40	27,000 high 21,000 low	27,000 high 21,000 low
EDV45	31,000 high 25,000 low	29,000 high 23,000 low

Table 4

NOTE: DIAGRAMS AND ILLUSTRATIONS ARE NOT TO SCALE

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



INNOVATIVE HEARTH PRODUCTS

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