

Models:
DCKVP
Dexen NG to LP Gas Conversion Kit

GAS-FIRED



WARNING:

This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable code 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.



CAUTION

Sharp Edges

- Wear protective gloves and safety glasses during installation.



Note: An arrow (➔) found in the text signifies change in content.

1 DCKVP Components

Description
Dexen Valve Regulator Replacement Kit. Includes propane gas regulator, conversion label and instructions
Five burner orifices (see Table 2.1 for appropriate size)
Three threaded orifices (see Table 2.1 for appropriate size)
Six male threaded orifices
Pilot orifice (.011)
Pilot orifice (.014) for PSE Pilot
Pilot orifice (.014) for PSE Pilot (orifice stamped with BL14LP)
Installation instructions
Installer conversion label

Table 1.1

Note: The DCKVP is for a one time conversion only. Discard unused parts.

Note: For gas models not listed, refer to the model's installation instructions for proper conversion kit or contact your Hearth & Home Technologies Inc. dealer. For the dealer nearest you, please visit www.heatilator.com.

2 Orifice Sizes for Conversions

A. Conversion - Orifices

Threaded Orifice Size	Model
.046	IB75 (front burner)
.070	IB75 (back burner) GCDC60I GCGBC80I
.063	GDST60I GDFL60I GDCR60I GDCL60I GDCH60I GBST36I GBIS36I GBFL36I GBCR36I
.067	GCBC60I
.073	GCDC80I
.065	CD4236IR CB4842IR
.067	CD4842IR
.052	ND3630I NB3630I
.055	ND3933I BN3933I
.058	ND4236I NB4236I
.635	ND4842I NB4842I
.0635	ND4842I ND4842I CB4236IR
.076 (#48)	GDST5244I
.067 (#51)	GB4942I
.063 (#52)	GB4336I

3 Preparation

Required Tools

Allen hex head wrench
 Cabinet screwdriver
 Phillips screwdriver
 Manometer
 5/8 in. deep socket wrench
 1/2 wrench
 9/16 wrench
 Non-corrosive leak-check solution

A. Turn off the Gas and Electrical Power

- To turn off the gas, locate the manual shutoff valve in the control area in the bottom of the appliance. Turn the manual shutoff valve so it is perpendicular to the gas line (Figure 3.1).
- If electricity has been brought to the appliance (for an electronic ignition model, or for a fan or remote control for either type of ignition), shut off all power by turning off the appropriate circuit breaker or removing the fuse in the electrical panel. Remove the D-cell batteries from the battery pack.

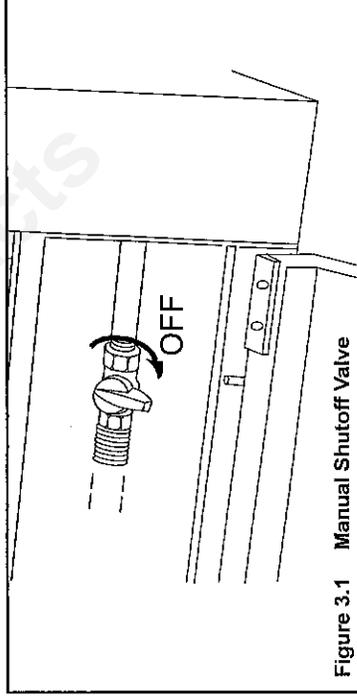


Figure 3.1 Manual Shutoff Valve

➔ B. Valve Access

IB75

- Remove the top log and set aside. Remove the front log/grate assembly by removing two screws. See Figure 3.2. Carefully pull the assembly up to remove and set aside.

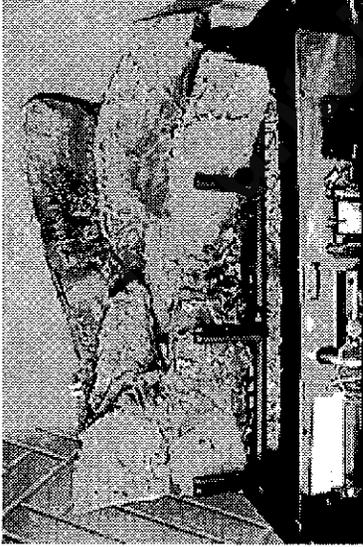


Figure 3.2 Front log/grate Assembly

- Remove the burner pan by removing four screws. See Figure 3.3. Pull up on the burner pan to remove.

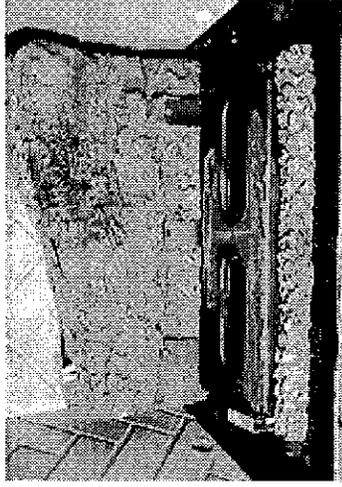


Figure 3.3 Remove Burner Pan

- Remove the hearth pan/Back log assembly by removing nine screws. See Figures 3.4 and 3.5. Carefully pull up on the hearth pan / back log assembly to remove. Set aside.
- The valve compartment will look like that in Figure 3.6 with the hearth pan removed.
- Go to section 4 Converting the Appliance.

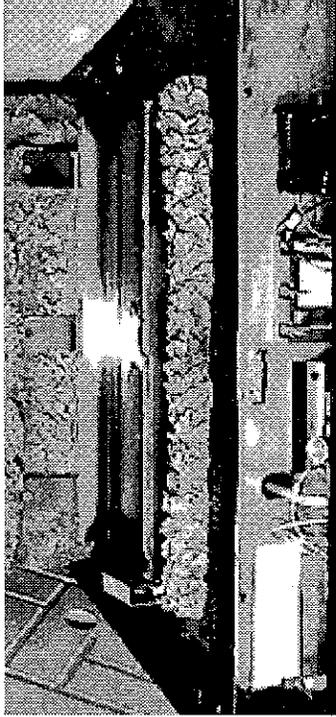


Figure 3.4 Hearth Pan/Back Log Assembly

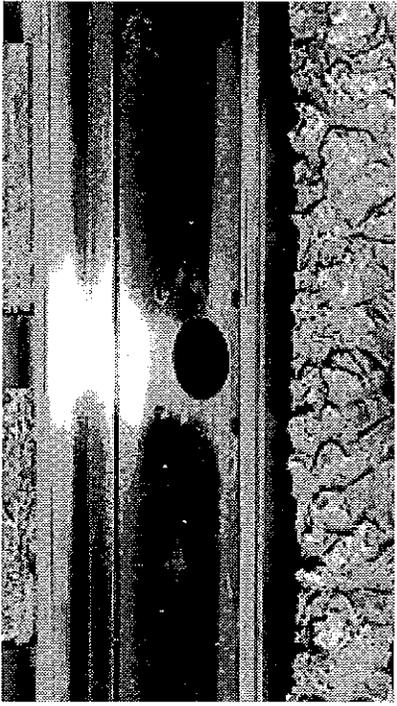


Figure 3.5 Hearth Pan Screws

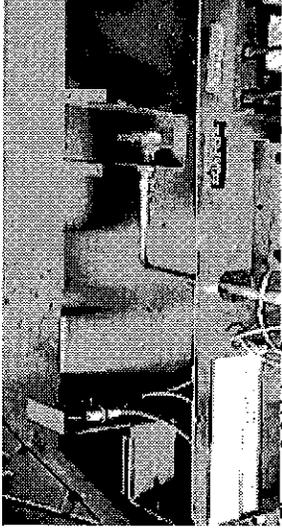


Figure 3.6 Valve Compartment

Note: Inspect the valve plate gasket at this time and replace if worn or damaged. Contact your distributor/dealer customer service department for replacement parts.

Caliber GCBC, GCDC, CD Series, CB Series and Caliber Designers

- Remove the screen and glass frame assembly.
- Remove the Log Set (GCDC, GCBC and Designers)
 - Remove the two screws, one at each end of the grate.
- Grasp the grate as shown in Figure 3.7. Pull the logs up and off the burner.



Figure 3.7 Log Removal

- Remove the Log Set (CD & CB Series)
 - Lift the two top logs off the log set. See Figure 3.8.
 - Remove the grate/log assembly by removing the two screws as shown in Figure 3.8. Lift and pull the grate/log assembly from the front of the firebox.
 - Remove four screws securing the rear log. See Figure 3.9. Lift rear log and remove from firebox.

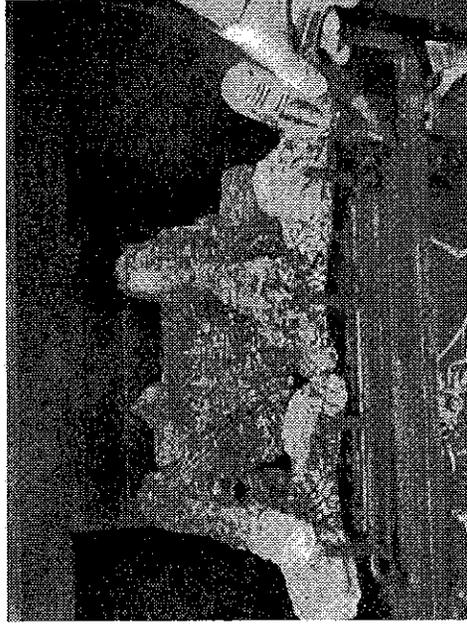


Figure 3.8 Loosen Grate

- Remove the log set as shown in the installation instructions included with the appliance.
- Remove the four screws holding the valve assembly in place. See Figure 3.11.

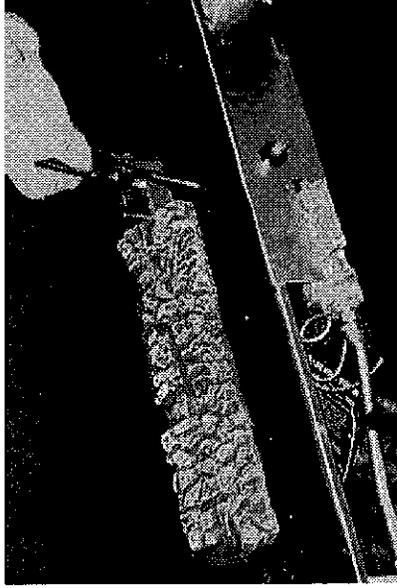


Figure 3.11 Loosen Valve Assembly

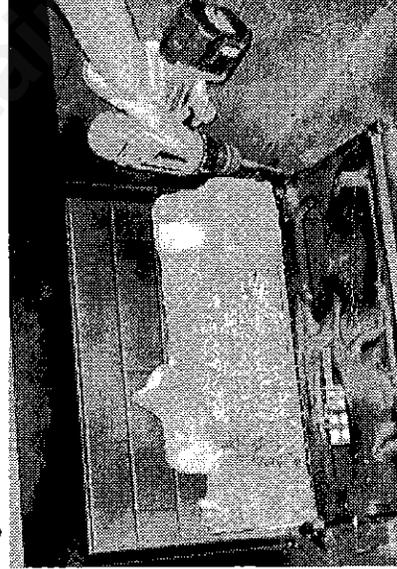


Figure 3.9 Remove Rear Log

- Remove the main burner by removing four screws, one at each corner. Slide the burner to the left and lift out. Set aside.
- Designer burners will lift straight up or slide forward, then up.
- Go to section 4 Converting the Appliance.

GB Series

- Grasp the tabs (one on each end) of the lava rock tray, lift up and then pull the lava rock tray toward you for removal.

See Figure 3.10.

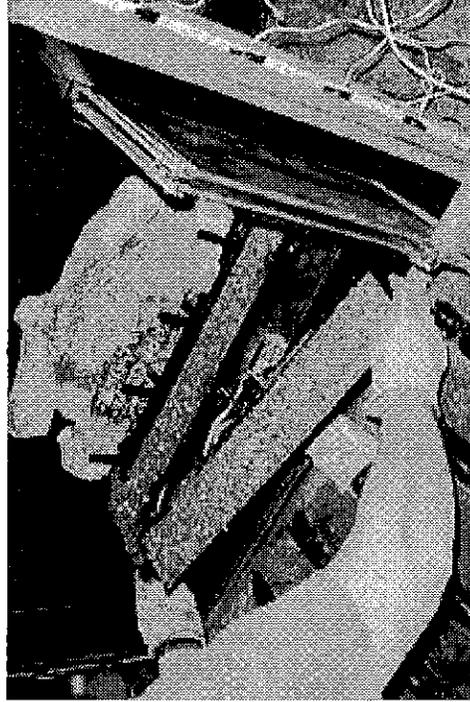


Figure 3.10 Remove Lava Rock Tray

- Remove the valve assembly as shown in Figure 3.12. Go to section 4 Converting the Appliance.



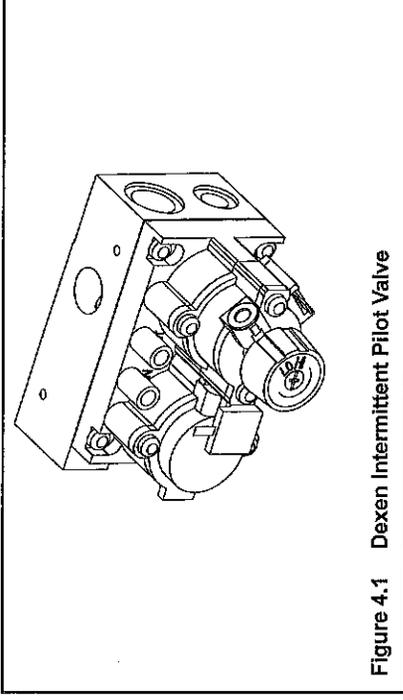
Figure 3.12 Remove Valve Assembly

4 Converting the Appliance

If you have a Dexen valve (Figure 4.1) use only the Dexen Valve Regulator Replacement Kit. Follow the regulator replacement instructions that came with the regulator replacement kit. After completion of the regulator replacement instructions, return to these instructions.

Note: Save the label that came with the Dexen conversion kit for later placement.

Note: Remove all components blocking your access and set aside.



5 Replace the Pilot and Burner Orifice



WARNING

Fire Risk

- Orifices **must** be replaced
- Failure to replace the orifices could result in overheating the gas appliance and possibly damaging your appliance and your home.

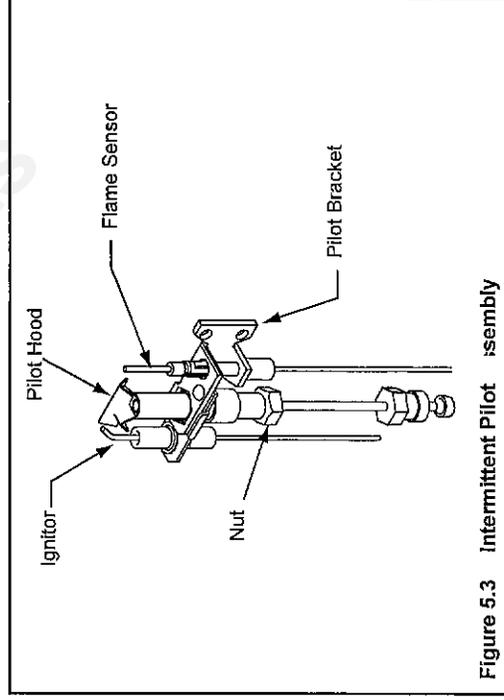
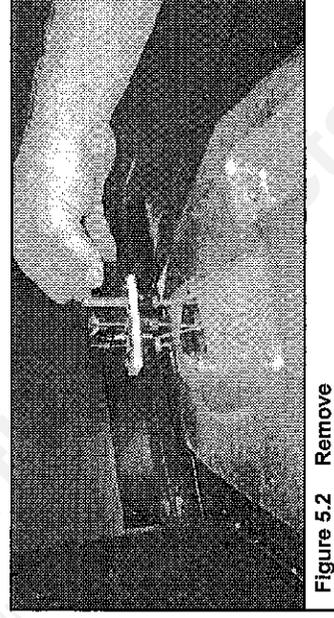


A. Replace Pilot Orifice

All Appliances

The Dexen system uses an intermittent pilot ignition; the pilot orifice **MUST** be replaced.

- Grasp the base of the pilot assembly firmly with pliers and loosen the nut at the base of the pilot hood with a 1/2 in. wrench. See Figure 5.3.
- Turn the nut until it comes free of the pilot.
- Remove the two screws securing the pilot assembly in position and pull it free of the tubing.
- Discard the natural gas orifice and replace it with the new orifice (propane orifice marked with LP11).
- Replace the pilot assembly (being careful not to drop the orifice) onto the tubing and finger tighten the nut. Secure the pilot assembly with the two screws. Using the 1/2 in. wrench, snugly tighten the nut at the base of the pilot tube.



B. Replace Burner Orifice(s)

Note: Some appliances require two burner orifices; both must be replaced. Refer to Table 2.1.

Note: Test fittings for leaks with the pilot lit and the burner off.

Burner Orifice - IB75

Use Table 2.1 and the existing rating label (located in the control area) to determine the correct orifice for your appliance.

- Completely loosen the nut securing the orifice with a 5/8 in. wrench (see Figure 6.1).
- Remove the orifice (this may require unfastening the burner or valve), discard and replace it with the appropriate propane orifice.
- Tighten the nut and return all components to their original position.
- All connections must be tightened and checked for leaks with a commercially available, non-corrosive leak check solution. Be sure to rinse off the solution when done leak testing.

Burner Orifice - GCDC, GCBC & Caliber Designers

- See Table 2.1 and the existing rating label (located in the control area) to determine the correct orifice for your appliance. The main burner orifice is located inside the air shutter control box. Remove two screws and re-move the control box top.

- Completely loosen the nut securing the orifice (orifice nut looks similar to that in Figure 5.12 and is situated under the air shutter) with a 5/8 in. wrench. Remove the orifice, discard and replace it with the appropriate orifice. Tighten the nut and return all components (burner, logs, glass & screen) to their original positions.
- All connections must be tightened and checked for leaks with a commercially available, non-corrosive leak check solution. Be sure to rinse off the solution when done leak testing.

Burner Orifice - Caliber CD & CB Series

Use Table 2.1 and the existing rating label (located in the valve compartment) to determine the correct orifice for your appliance.

- Using a 1/2 in. wrench remove the threaded orifice (see Figure 5.4), discard and replace with the appropriate propane gas orifice.
- Make sure the orifice is screwed on completely. Failure to have the orifice completely screwed on will result in the valve plate assembly not fitting together properly.

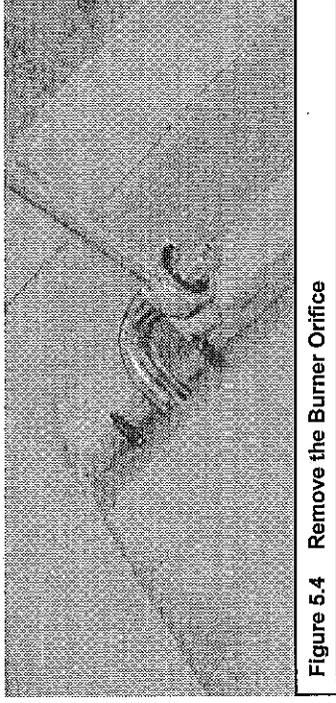


Figure 5.4 Remove the Burner Orifice

Burner Orifice - GB Series

- Use Table 2.1 and the existing rating label (located in the control area) to determine the correct orifice for your appliance.
- Using a 3/8 in. wrench, loosen and remove the existing orifice and discard. See Figure 5.5. Replace it with the appropriate propane orifice, and tighten. Return the valve assembly to the original position.
- All connections must be tightened and checked for leaks with a commercially available, non-corrosive leak check solution. Be sure to rinse off the solution when done leak testing.

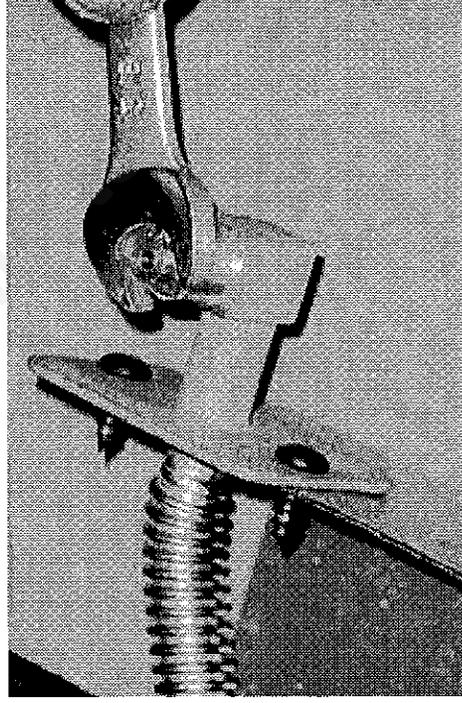


Figure 5.5 Orifice, GB Series

Burner & Pilot Orifices - GDST5244I

- Unscrew and remove grate and log assembly. See Figures 5.6 and 5.7.



Figure 5.6 Unscrewing Log & Grate Assembly

- Remove four screws in hearth pan. See Figure 5.7.



Figure 5.7 Removing Log & Grate Assembly

- Remove four screws in burner pan. See Figure 5.8.

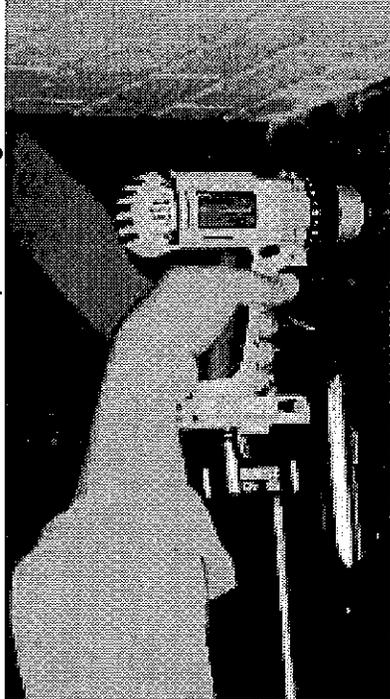


Figure 5.8 Unscrewing Hearth Pan

- Remove four screws in burner pan. See Figure 5.9.

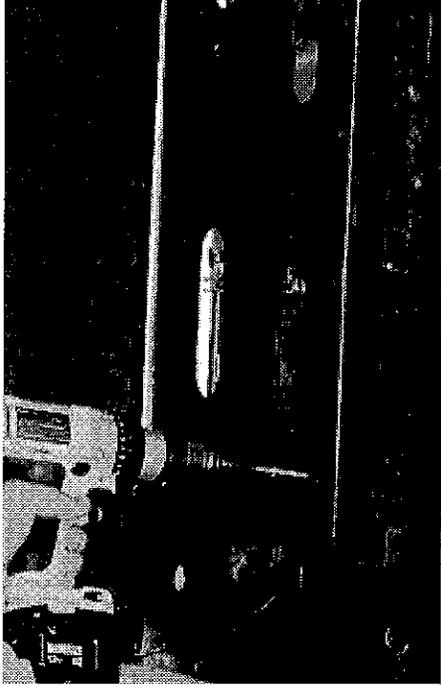


Figure 5.9 Unscrewing Burner Pan

- Remove screw that attaches pilot bracket to burner pan. See Figure 5.10.

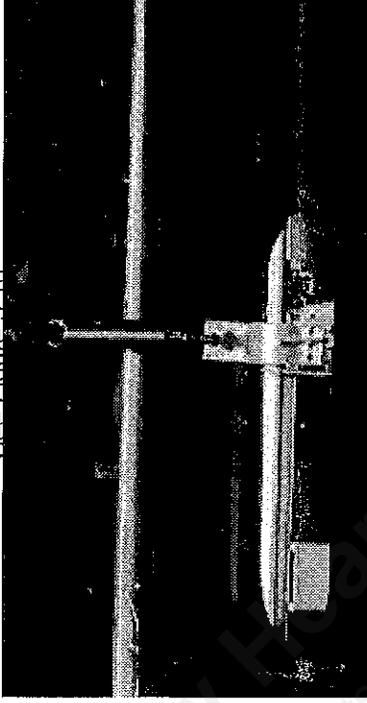


Figure 5.10 Unscrewing Pilot Bracket

- Slide burner pan to the right (as shown in Figure 5.11) and cut.



Figure 5.11 Sliding & Removing Burner Pan

- Remove air shutter cover. See Figure 5.12.



Figure 5.12 Unscrewing & Removing Air Shutter Cover

- Using a 3/8 in. wrench, remove and discard existing burner orifice. Replace orifice with correct size orifice from Table 2.1 and tighten. See Figure 5.13.

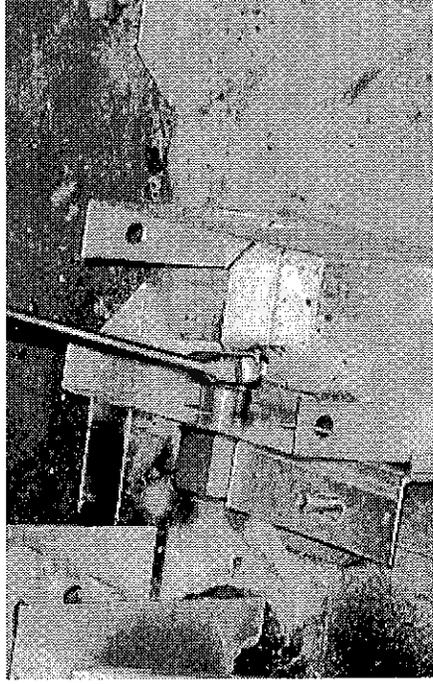


Figure 5.13 Burner Orifice

- Replace air shutter cover.

- Bend out pilot shield. See Figure 5.14

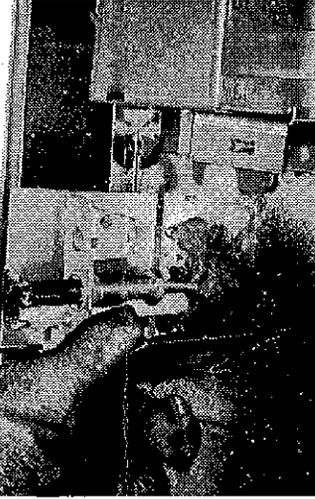


Figure 5.14 Bending Pilot Shield

- Loosen pilot nut with 1/2 in. wrench. See Figure 5.15.

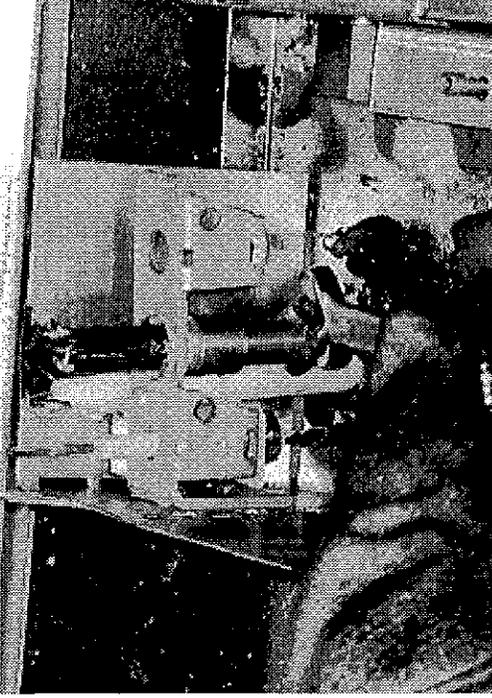


Figure 5.15 Loosening Pilot Nut

- Remove and discard existing pilot orifice and replace with pilot orifice from this kit. Tighten pilot nut.
- Bend pilot shield back to original position.
- Replace burner pan.
- Replace screw holding pilot bracket to burner pan.
- Replace four screws in burner pan.
- Replace four screws in hearth pan.
- Replace grate and log assembly. Screw down to hearth pan.

6 Adjust the Air Shutter

Adjust the Air Shutter - IB75

To adjust the air shutter at the base of the burner tube/neck, loosen the 1/4 in. nut, using either 1/4 in. nut driver or stubby screwdriver. The front and rear air shutters should be fully open for propane gas. See Figure 6.1.



Figure 6.1 Air Shutter & Burner Orifice Nut - IB75

Adjust the Air Shutter - GCBC, GCDC, CB & CD Series,

Caliber Designers and GDST5244IL

Turn the air shutter handle clockwise completely to open the air shutter (for propane gas). See Figure 6.2.

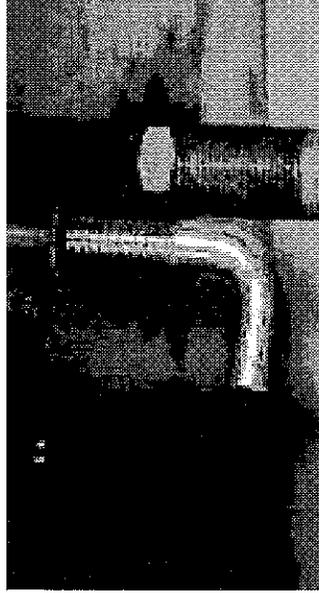


Figure 6.2 Air Shutter - Caliber Series & GDST5244I

Adjust the Air Shutter - GB Series

While the log/grate assembly is out of the appliance, locate the air shutter on the end of the burner. Loosen the screw and adjust the shutter to full open. Tighten the screw. See Figure 6.3.



Figure 6.3 Air Shutter - GB Series

Caliber CD & CB Series - Reinstall Rear Log

The rear log must be installed using the rear set of holes for LP. The front set of holes are used if converting to natural gas. See Figure 6.4.



Figure 6.4 Reinstall Rear Log Location

7. Checking Your Conversion

A. Leak Test

	▲ WARNING
Fire Risk Explosion Risk	
<ul style="list-style-type: none">All connections must be checked and leaks must be eliminated.	
<ul style="list-style-type: none">Incomplete gas line connections could cause a gas leak.	

Turn on the gas for the standing pilot ignition, or turn on gas and electricity for electronic ignition.

Gas Leak Test

- All connections must be tightened and checked for leaks with a commercially available, non-corrosive leak check solution. Be sure to rinse off the solution when done leak testing.
- If the solution indicates there is a leak, tighten and seal the connection and then retest.

Leak Test Dexen Intermittent Pilot Ignition Models

Turn on the wall switch and test for leaks at the valve and the burner orifice using the method above.

B. Checking the Pressure

	▲ WARNING
Fire Risk Explosion Risk Asphyxiation risk	
Ensuring correct pressures is imperative!	

Inlet Gas Pressure

Verify the inlet gas supply pressure by connecting a manometer to the inlet side of the valve. If the inlet gas pressure is incorrect, do not adjust without specific approval and instruction from the gas supplier. Changing inlet pressure may affect other appliances in the residence.

Manifold Gas Pressure

To measure the manifold pressure, loosen the manifold pressure tap with a small flathead screwdriver, and connect a manometer to the 1/8 in. manifold pressure tap on the side of the valve. See Figure 7.1. Ignite the appliance (with variable flame control in the high position) and ensure the pressure is between 3 in. and 4 in. water column (optimum pressure is 3.5 in. w.c.).

Shut off Appliance

Remove the manometer and tighten the manifold pressure tap.

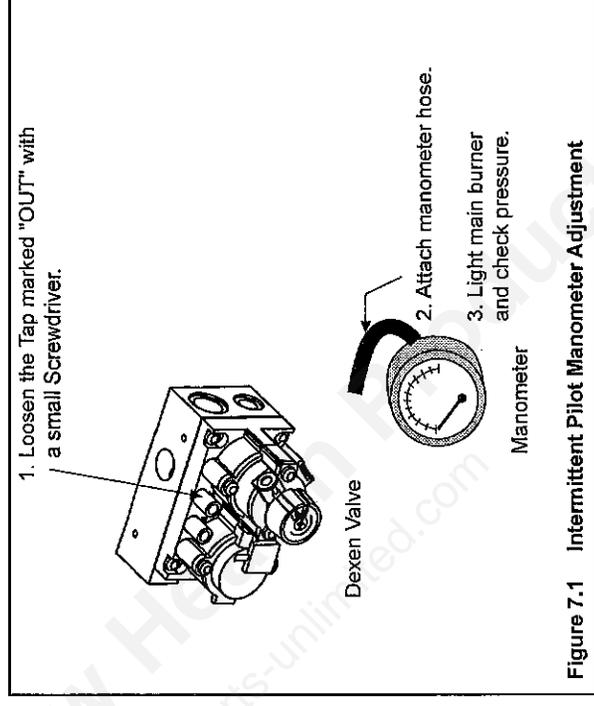


Figure 7.1 Intermittent Pilot Manometer Adjustment

8 Attaching Labels

All labels must be filled out and/or installed by the individual completing the conversion. This must be finished or the conversion is not complete. See Figures 8.1-8.4.

- Fill out the installer conversion label (Figure 8.1). After filling out the label, clean an area near the existing rating label and attach.
- Attach the valve manufacturer conversion labels as indicated in Figures 8.2-8.3
- Locate the lighting instruction card and attach the red LP label (included with this conversion kit, Figure 8.4) over the existing blue Natural Gas label.

CKGP	CKKGP	DCKVN	CKMAX6N	DCKVNNXT-B
CKMP	DCKN	DCKVP	CKMAX6P	DCKVPNXT-B
CKVN	CKMN	DCKP	DCKVNNXT	DCKVNNXTPLUS
CKVP	MHCK		DCKVPNXT	DCKVPNXTPLUS
SRV-DCKVN	SRV-DCKVP	DCKVN-NNXT	DCKVP-NNXT	

THIS PLATE MUST BE AFFIXED AS CLOSE AS POSSIBLE TO THE EXISTING RATING PLATE.
 THE FOLLOWING MUST BE COMPLETED BY THE INDIVIDUAL CONVERTING THIS APPLIANCE:

THIS APPLIANCE HAS BEEN CONVERTED TO _____ FUEL, ORIFICE _____
 MANIFOLD PRESSURE _____ AND INPUT _____ ON _____ (date),
 WITH KIT # CKVP, CKVN, SRV-DCKVN, SRV-DCKVP, DCKVP-NNXT, DCKVN-NNXT,
 CKMAX6N, CKMAX6P, DCKP, DCKN, DCKVP, CKGP, CKMP, MHCK, CKMN, DCKVN,
 DCKVP, DCKVNNXT, DCKVPNXT, DCKVNNXTPLUS, DCKVPNXTPLUS (circle one), BY
 _____ (name & address of organization making this conversion)

WHO ACCEPTS THE RESPONSIBILITY FOR THE CORRECTNESS OF THIS CONVERSION.
 27361K

Figure 8.1 Conversion Label

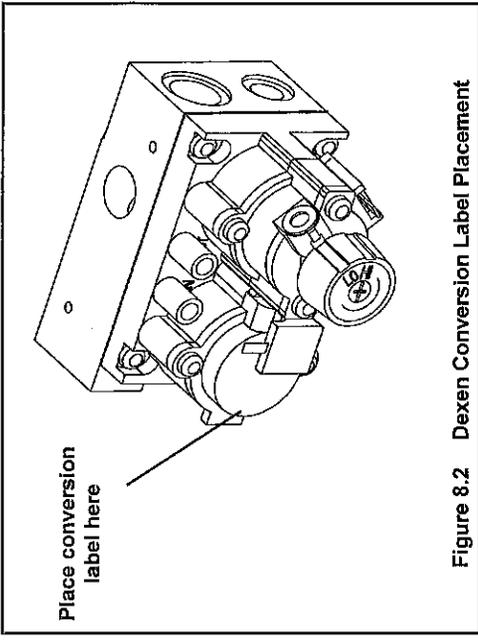


Figure 8.2 Dexen Conversion Label Placement



Figure 8.3 Dexen Conversion Label

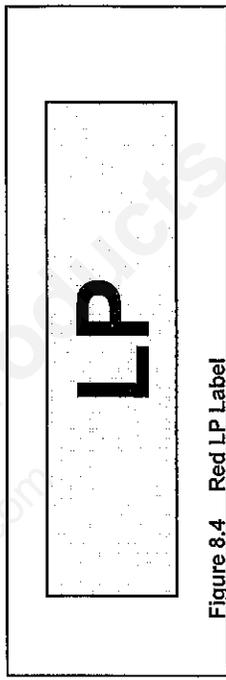


Figure 8.4 Red LP Label

Mountain View Hearth Products
manuals.stove-parts-unlimited.com