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CONVERTING FROM PROPANE/LP GAS TO NATURAL GAS For Use When Converting Model (V)V42P Series and CHDV47PR Series

This conversion kit must be installed by a qualified service agency.

Read these instructions completely before installing this conversion kit.

Before proceeding, make sure the gas control valve is in the OFF position, all electrical power to the appliance is off, and the fireplace is cool to the touch.

CAUTION: The gas supply shall be shut off prior to disconnecting the electrical power before proceeding with the conversion.

Parts included with this kit:

Part No.	Description	Quantity
108827-01	Instruction Sheet	1
108085-01	Pilot Orifice, NG (51)	1
104506-24	Pan Burner Orifice, NG (206)	1
104506-25	Tube Burner Orifice, NG (199)	1
14593	Gas Valve Regulator, NG	1
108808-26	Conversion Label, English	1
108809-26	Conversion Label, French	1
56060	Conversion Information Label	1
106739-01	Registration, Gas Conversion	1

Tools Required

- 7/8" Open End Wrench or Adjustable Wrench
- 3/4" Open End Wrench or Adjustable Wrench
- 11/16" Open End Wrench or Adjustable Wrench
- Torx T20 or Slotted Screwdriver
- 5/32" Allen Wrench
- #2 Short Phillips Screwdriver
- Thread Sealant (Resistant to Propane/LP)

ACCESSING FIREPLACE

The gas control valve and burner orifices are located under the firebox floor of the appliance and are accessed by removing the lower louver panel. The pilot orifice is located in the pilot burner and is accessed by opening the glass door and removing the logs.

Removing Louver Panels

Remove the top and bottom louver panels by simultaneously pulling both top end spring latches towards the center of the appliance until they are disengaged from the locating holes (see Figure 1). Repeat for bottom spring latches and pull the louvers outward. To install or replace items removed, simply reverse the procedures above.

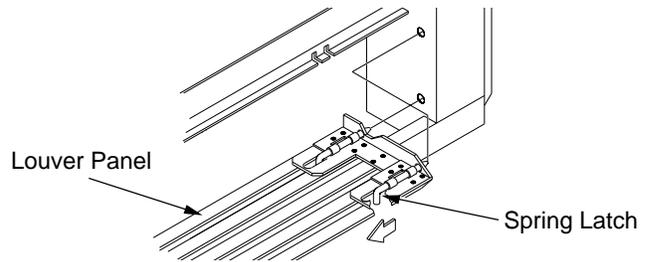


Figure 1 - Removing Louver Panel

Opening Glass Door

1. Remove screen assembly by pushing the rod either left or right and then down and forward. Set assembly aside.
2. Lift up on latches of door to unlock. There are two on top of firebox and two below firebox that hold glass door in place (see Figure 2).
3. Remove log set from firebox. Refer to *Installing Logs, Lava Rock and Glowing Embers* in owner's manual.

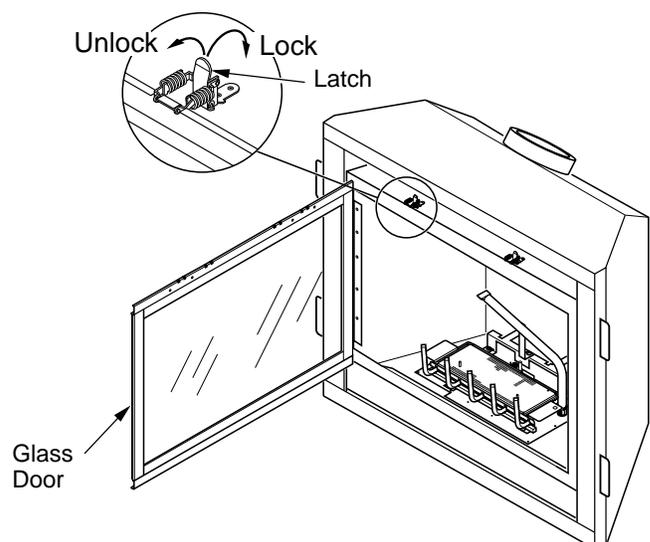


Figure 2 - Opening Glass Door

PAN BURNER ORIFICE CONVERSION

1. Inside the control compartment under firebox, locate aluminum tube with flare fitting and adapter fitting on the left side. Loosen flare fitting and disconnect aluminum tube from adapter fitting. Use a 3/4" open end wrench (see Figure 3).
2. Carefully cut away the RTV silicone from the adapter fitting where it passes through the firebox bottom (see Figure 3). Remove adapter fitting from elbow fitting by turning counterclockwise. Use an 11/16" open end wrench.
3. Inside firebox, locate two small burner hold down brackets on rear of pan burner. Remove screws with phillips screwdriver and carefully lift pan burner assembly up and out of firebox (Do not force the assembly during removal.) See Figure 4.
4. Remove elbow fitting with orifice from burner manifold by turning counterclockwise. Use a 3/4" open end wrench. Remove LP orifice from elbow fitting. Apply a light amount of propane/LP resistant sealant to short threaded end of NG orifice (206) supplied in kit. Thread NG orifice into elbow.
5. Apply light amount of propane/LP resistant sealant to long threaded end of orifice. Thread elbow fitting with orifice into burner manifold and tighten by turning clockwise. Use a 3/4" open end wrench. Make sure elbow fitting faces down.
6. Locate air shutter at end of burner manifold (see Figure 3). Loosen screw and adjust air shutter to 3/16" open position. Retighten screw.

Note: Do not replace pan burner assembly in firebox at this time. Convert the tube burner and pilot assembly first (see *Tube Burner Orifice Conversion*, this page, and *Pilot Orifice Conversion*, page 4).

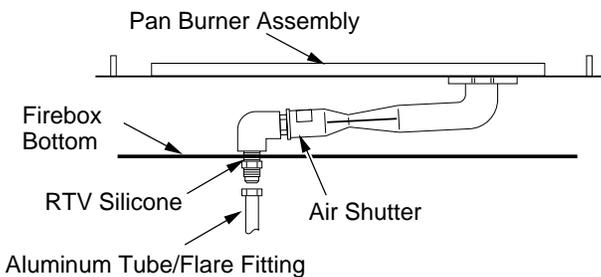


Figure 3 - Removing/Applying RTV Silicone and Locating Air Shutter

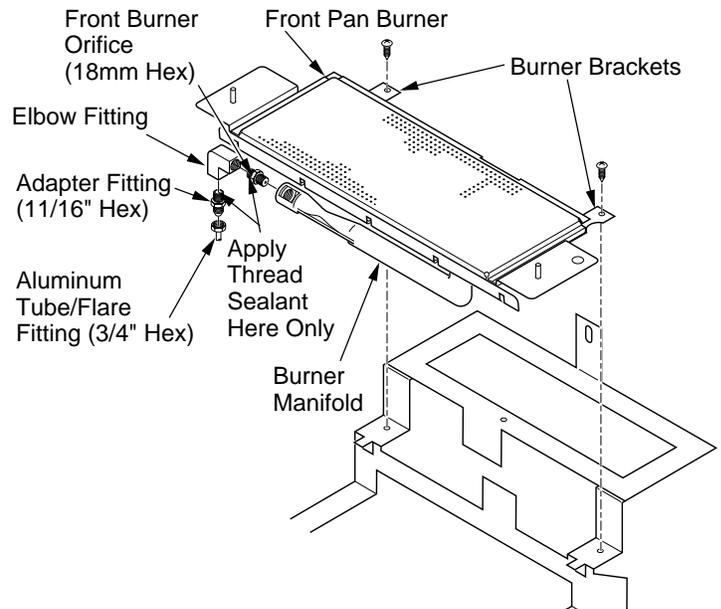


Figure 4 - Removing/Replacing Pan Burner Orifice (Tube Burner Not Shown for Clarity)

TUBE BURNER ORIFICE CONVERSION

1. Inside the control compartment under firebox bottom, locate aluminum tube with flare fitting and brass elbow on the right side. Loosen flare fitting and disconnect aluminum tube from elbow fitting. Use a 3/4" open end wrench (see Figure 5).
2. Carefully cut away RTV silicone from the orifice where it passes through the firebox bottom (see Figure 5). Remove elbow fitting with orifice from burner inlet by turning counterclockwise. Use a 7/8" open end wrench (see Figure 6, page 3).

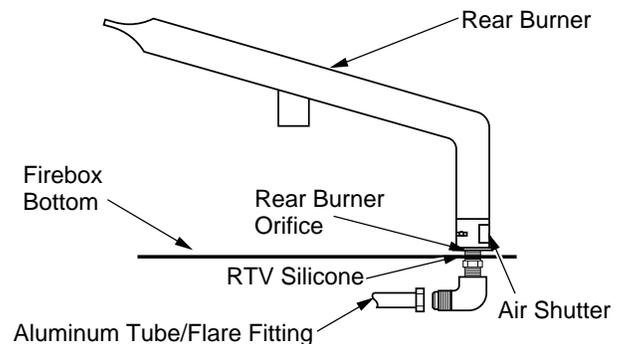


Figure 5 - Removing/Applying RTV Silicone and Locating Air Shutter

3. Remove LP orifice from elbow. Apply a light amount of propane/LP resistant sealant to short threaded end of NG orifice (199) supplied in kit. Thread NG orifice into elbow.
4. Apply a light amount of propane/LP resistant sealant to long threaded end of orifice (see Figure 5). Thread elbow fitting with orifice into burner inlet and tighten by turning clockwise. Use a 7/8" open end wrench. Make sure flare end of elbow faces left.
5. Locate air shutter at end of tube burner (see Figure 5, page 2). Loosen screw and adjust air shutter to 3/16" open position. Retighten screw.

Note: Do not replace tube burner assembly in firebox at this time. Convert the pilot assembly first (see *Pilot Orifice Conversion*).

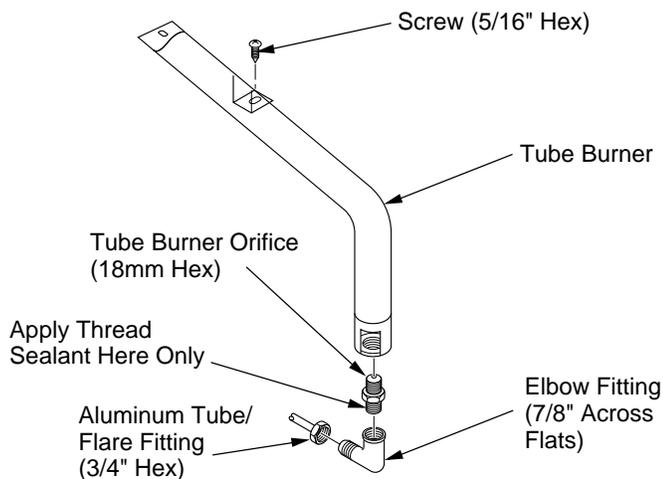


Figure 6 - Removing/Replacing Rear Burner Assembly

PILOT ORIFICE CONVERSION

1. Remove the pilot hood by pulling up until it disengages from the barrel. Do not remove the retainer clip (see Figure 7).
2. Remove the pilot orifice from inside the barrel using a 5/32" allen wrench to unscrew the orifice.
3. Replace pilot orifice with NG orifice supplied with this kit. The number 51 is stamped on the sleeve for identification. Insert the small end of the new pilot orifice into the barrel and thread until tight with the allen wrench.
4. Line up the notch on pilot hood assembly to the positioning tab on the barrel receiver and snap back into position.

IMPORTANT: Be careful not to bend or kink the aluminum tubing during conversion. Make sure the pilot hood and orifice are properly mated and aligned after finishing this conversion.

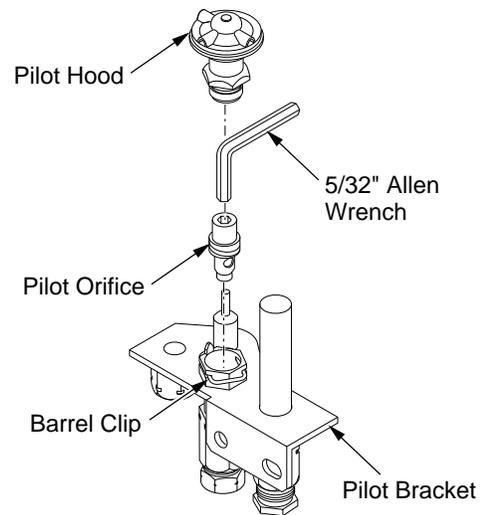


Figure 7 - Converting Pilot Orifice

REINSTALLING BURNERS

Tube Burner

1. Apply RTV silicone to orifice where it passes through the firebox bottom (see Figure 5, page 2).
2. Connect aluminum tube to elbow fitting and tighten flare fitting. Use a 3/4" open end wrench.

Pan Burner

1. Rest pan burner on grate base.
2. Using screws removed in step 3 of *Pan Burner Orifice Conversion*, page 2, reattach two small burner hold down brackets on rear of pan burner to grate base. See Figure 4, page 2.
3. Apply RTV silicone to adapter fitting where it passes through the firebox bottom (see Figure 3, page 2).
4. Connect aluminum tube to elbow fitting and tighten flare fitting. Use a 3/4" open end wrench.

GAS CONTROL VALVE CONVERSION

Convert the gas control valve by swapping out the valve regulator portion of the gas valve.

1. Using a Torx T20 or slotted screwdriver, remove and discard the three mounting screws, pressure regulator tower, and diaphragm/spring components (see Figure 8).
2. Insure that the rubber gasket is properly positioned on the new pressure regulator assembly. Install the NG pressure regulator assembly to the valve using the new mounting screws supplied with the kit. Tighten screws securely (approximately 25 in-lbs.) (see Figure 9).
3. Install the identification label enclosed with the gas valve regulator to the valve body where it can easily be seen (see Figure 9).

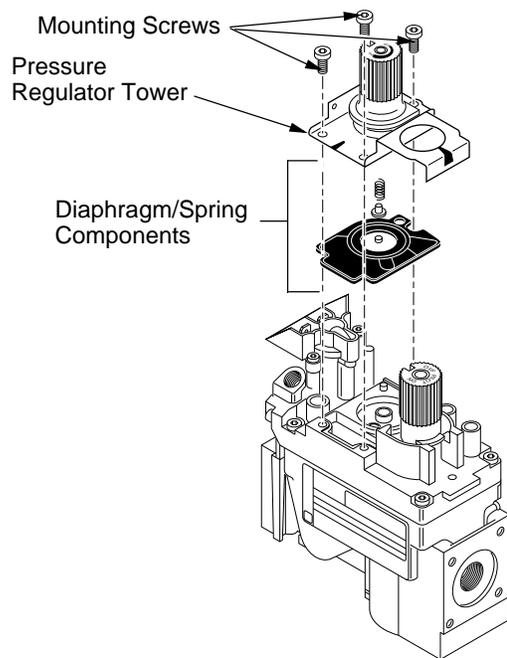


Figure 8 - Removing Mounting Screws, Pressure Regulator Tower, and Diaphragm/Spring Components

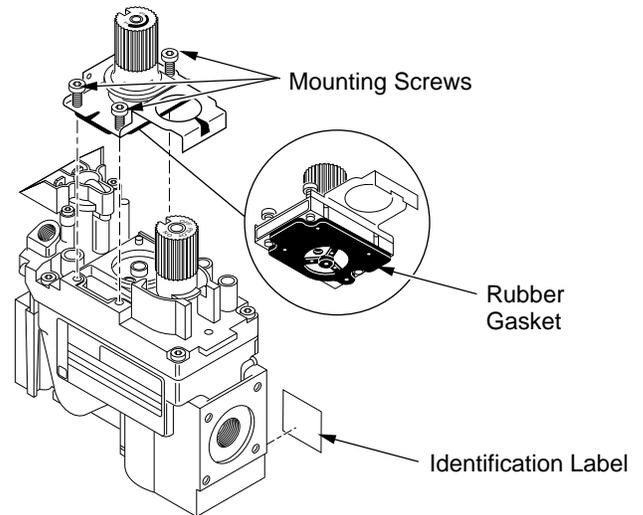


Figure 9 - Installing Pressure Regulator Assembly

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