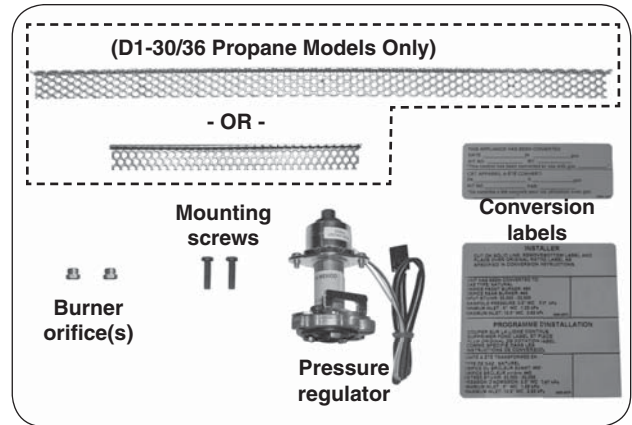




D1 Direct Vent Gas Conversion Kit

Model #s: CK-31-NAT(25,30,36)-2
CK-31-LP(25,30,36)-2

INSTALLER: Leave these instructions with consumer.
CONSUMER: Retain for future reference.



This conversion kit is for installation on a D1 series direct vent by a **qualified professional service technician**.

Note: Once the original pressure regulator on the valve is removed, it cannot be reused.

WARNING: This conversion kit must **ONLY** be installed on an appropriately sized D1 Series direct vent. The installation of this conversion kit must only be performed by a qualified professional service technician.

Correct operation of the system cannot be guaranteed if the conversion kit or valve has been dropped or has sustained a strong impact.

Installation should be performed in a clean environment.

TOOLS REQUIRED: Phillips screwdriver, $\frac{3}{8}$ ", and $\frac{5}{16}$ " nut driver, $\frac{7}{16}$ " open-end wrench, Torx T20 bit.

The technician should reference the main owner's manual (provided with the direct vent) to assist in the removal and replacement of parts involved in this procedure. Wear clean non-marking gloves.

REMOVE DIRECT VENT COMPONENTS

CAUTION: Ensure the appliance is **OFF** and completely cool prior to any servicing.

1. Remove the barrier screen and surround pieces.
2. Turn off the gas supply to the unit and disconnect the power supply cord.
3. If the temperature is at or below 60° during this procedure, remove the batteries from the remote receiver to prevent the automatic pilot thermostat feature from lighting the pilot.
4. Remove the glass panel, decorative media, grate, all floor panels, the air flow screen or ember screen, and burner(s).
5. **D1-30/36 models only:** If your D1-30/36 unit was originally designed for propane gas, a screen will exist just behind the rear burner, and must be removed and discarded!
6. At this stage, the insert should appear similar to that of Fig. 1-1 and Fig. 1-2.

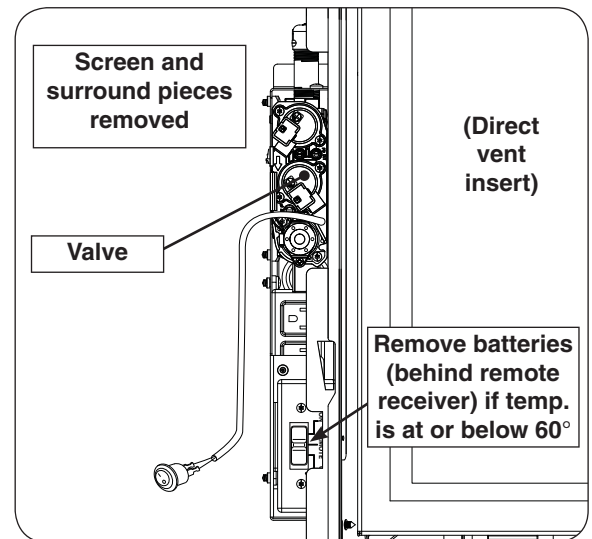


Fig. 1-1 Gain access to control box

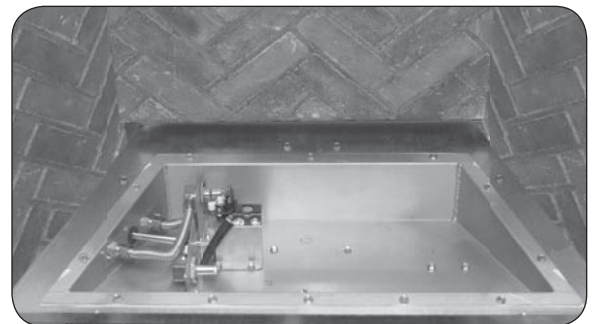


Fig. 1-2 Gain access to interior of unit

VALVE CONVERSION

1. Located on the valve is the pressure regulator that is to be removed. First disconnect the wire coming out of it. See Fig. 2-1.
2. Using a Torx T20 bit, or slotted screwdriver, remove **and discard** the 2 pressure regulator mounting screws (see Fig. 2-2).
3. Completely remove the pressure regulator, followed by the spring and diaphragm assembly. The exposed valve should appear as shown in Fig. 2-3.

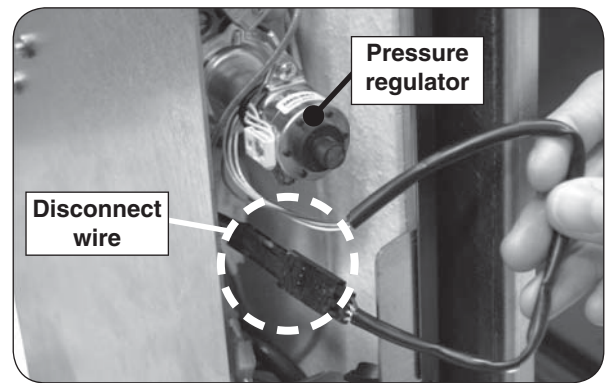


Fig. 2-1 Disconnect wire

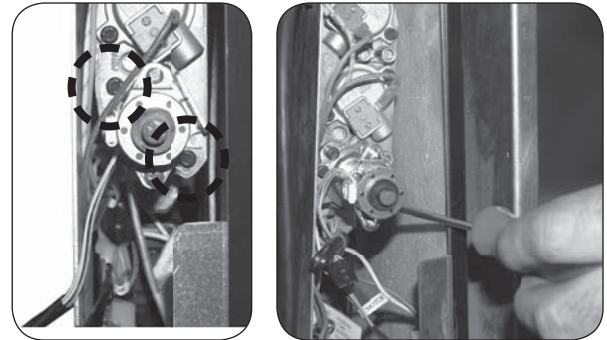


Fig. 2-2 Remove screws

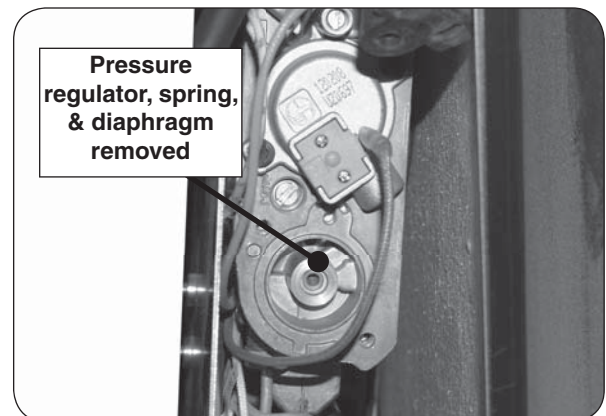


Fig. 2-3 Remove regulator, spring, & diaphragm

4. Use the provided screws and a Torx T20 bit or slotted screwdriver to install the new pressure regulator onto the valve body (see Fig. 3-1).

Important: The flat bracket must face the direct vent wall when installing.

CAUTION: In the event that the threads of the valve are stripped or damaged, **REPLACE** the valve.

5. Connect the wire coming from the pressure regulator to the exposed wire coming out of the control box (see Fig. 3-2).

APPLY CONVERSION LABELS

1. Fill out the supplied identification label, then apply it in an area near the valve where it can be easily seen (see Fig. 3-3).
2. Locate the rating plate in the right side of the insert. Cut to size then apply the supplied rating plate addendum label over the existing label as shown in Fig. 3-3.

Return the rating plate back into the right side of the insert.

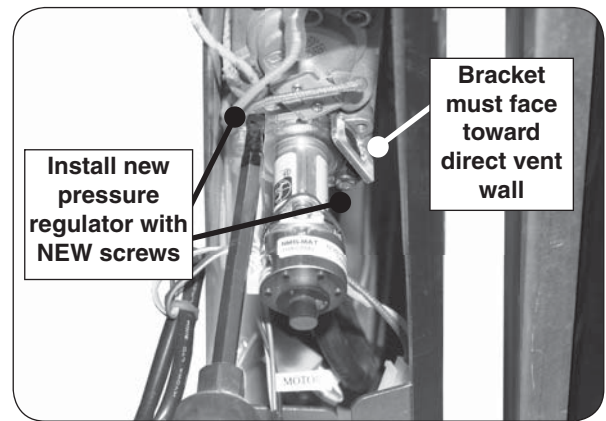


Fig. 3-1 Install new pressure regulator

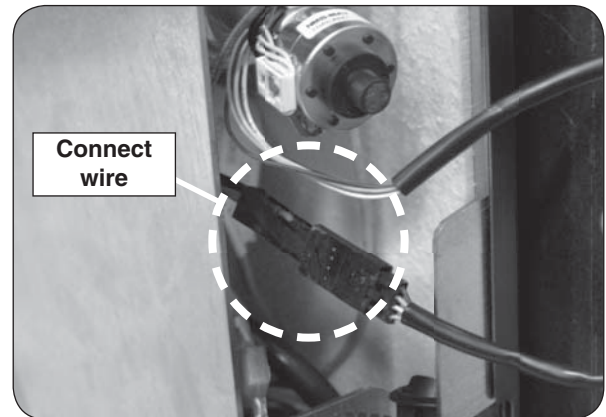


Fig. 3-2 Connect wire

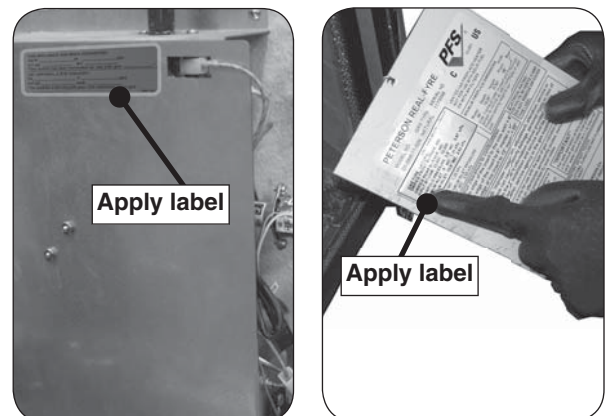


Fig. 3-3 Apply label

BURNER ORIFICE CONVERSION

Note: 36" model shown here (design may vary). D1-25 models only have 1 burner.

1. Remove the front and rear burner orifice(s) using a $\frac{3}{8}$ " nut driver (see Fig. 4-1).
2. Install the new supplied burner orifice(s). Reference the table below to confirm the appropriate orifice(s) are used for your model and gas type.

Model	Burner Orifice Size			
	Natural Gas		Propane Gas	
	Front	Rear	Front	Rear
D1-25	#42	-	#55	-
D1-30	#50	#45	#57	#55
D1-36	#48	#43	#57	#54

CAUTION: ENSURE THAT THE FRONT ORIFICE IS INSTALLED ON THE FRONT BURNER, AND THE REAR ORIFICE (IF APPLICABLE) IS INSTALLED ON THE REAR BURNER. EACH ORIFICE IS STAMPED WITH A NUMBER.

PILOT ORIFICE CONVERSION

1. Using a $\frac{7}{16}$ " wrench, carefully loosen the pilot head a half-turn counter-clockwise (see Fig. 4-2).

Note: DO NOT fully loosen/remove the pilot head.

2. Using a flathead screwdriver, push the pilot orifice lever (located at base of pilot head) completely to the opposite side (see Fig. 4-3).

Important: Ensure the lever is completely pushed to the side the unit is being converted to. Reference Fig. 4-4 and the table below.

Orifice Lever Position	Gas Type
Red Visible on Lever	L.P. Gas
NAT/Clear Lever	Nat. Gas

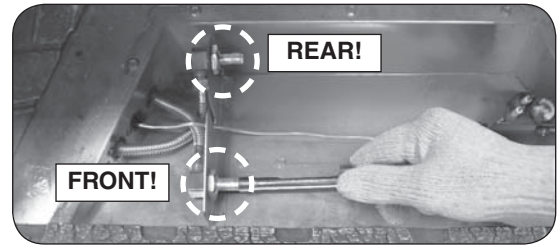


Fig. 4-1 Remove old & install new orifice(s)

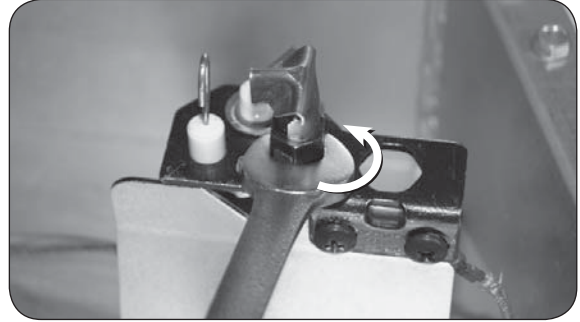


Fig. 4-2 Loosen pilot head

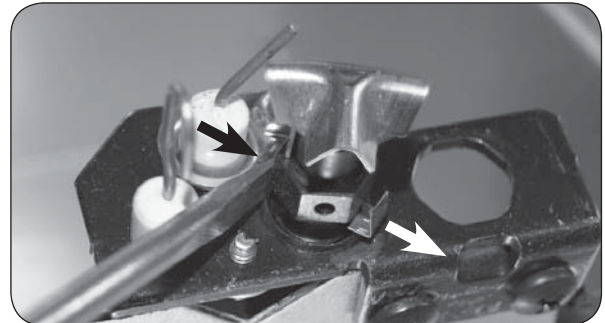


Fig. 4-3 Adjust orifice lever

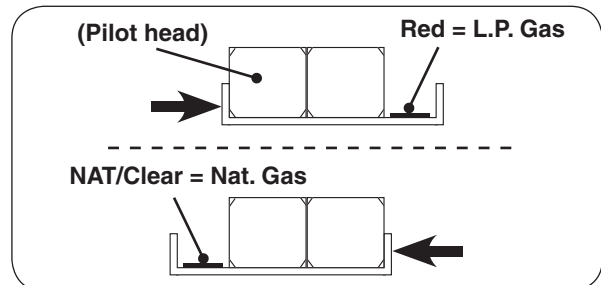


Fig. 4-4 Orifice lever settings

3. After confirming step 2 has been properly performed, retighten the pilot head until it is properly positioned toward the sensor as shown in Fig. 5-1.

REINSTALL DIRECT VENT COMPONENTS AND PERFORM LEAK TEST

Reference the main owner's manual provided with the direct vent for complete details on re-installing the unit's components.

1. Ensure all controls are in the **OFF** position, then turn on the gas supply to the unit.
2. Reinstall the burner and floor panels.
3. Reinstall the batteries to the remote receiver (if removed).
4. Light the appliance per the main owner's manual and verify proper ignition and operation.
5. **LEAK TEST:** Test at the new pressure regulator for leaks using an appropriate soapy water solution. If bubbles appear, a leak is present. Turn off the gas and tighten the two pressure regulator screws. Repeat until no leaks are present. If a leak persists, turn off the gas supply and contact the local gas company or dealer. **NEVER USE A FLAME TO CHECK FOR LEAKS.**
6. Allow the unit to completely cool, then reinstall the cover plate, pilot screen, decorative media and glass panel.
7. Reconnect the power supply cord.
8. **Initial Air Shutter Adjustment:** Converting the gas type requires burner air shutter adjustment to ensure optimal flame appearance. Refer to the **SERVICING AND CLEANING - AIR SHUTTER ADJUSTMENT** section of owner's manual for details.
9. Allow the unit to completely cool, then reinstall the surround and barrier screen.

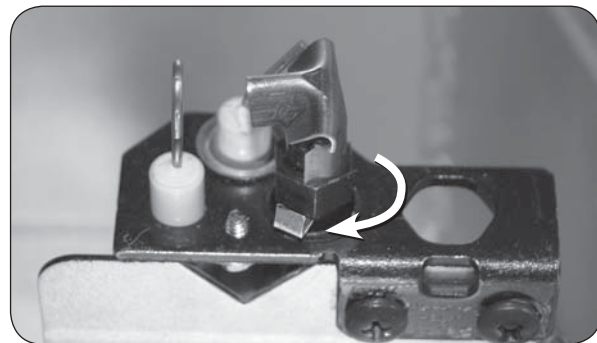


Fig. 5-1 Retighten pilot head

Please use this page to record any information that you may want to have at hand.