# REZNOR

Supersedes: UBX-UBZ-UDX-UDZ-GC (05-23) 1034364-G

# GAS CONVERSION KIT INSTALLATION FOR GAS-FIRED UNIT HEATERS

### MODELS UBX, UBXC, UBZ, UDX, UDXC, UDZ, UDAP, UDAS, UDBP, AND UDBS

### **GENERAL INFORMATION**

These gas conversion kits are for gas-fired unit heaters equipped with either a single-stage or two-stage gas valve. When converting fuels, it is necessary to have the complete heater model. The identifying model number can be found on the heater rating plate. The rating plate identifies only original equipment so also compare the label on the gas valve with the description listed.

| Table 1. Model Configuration   |   |           |                                  |  |  |  |  |  |
|--|---|-----------|----------------------------------|--|--|--|--|--|
| Model  | Configuration   | Model     | Configuration                    |  |  |  |  |  |
| UBX, UDBP  | Standard power-vent blower-type                                       | UBZ, UDBS | Separated-combustion blower-type |  |  |  |  |  |
| UDX, UDAP  | Standard power-vent fan-type  | UDZ, UDAS | Separated-combustion fan-type    |  |  |  |  |  |
| UBXC Convertable power-vent blower-type* UDXC Convertable power-vent fan-type* |   |           |                                  |  |  |  |  |  |
| *Standard units ma   | *Standard units may be field-converted to separated-combustion units. |           |                                  |  |  |  |  |  |

#### Important Safety Information

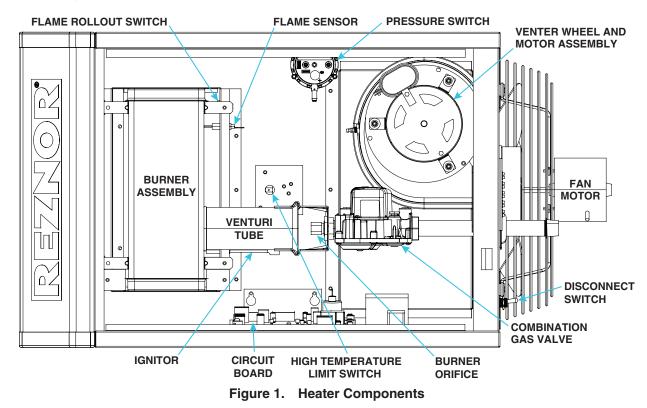
Refer to the installation manual provided with the heater for important safety information. Pay attention to all dangers, warnings, cautions, and notes highlighted in this manual. Safety markings should not be ignored and are used frequently throughout to designate a degree or level of seriousness.

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- All gas conversion must be done by a qualified service person in accordance with these
  instructions and in compliance with all codes and requirements. In Canada, gas 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 and CAN/
  CGA-B149.2 installation code.
- The gas burner in this gas-fired equipment is designed to provide safe complete combustion. However, if the installation does not permit the burner to receive the proper supply of combustion air, complete combustion may not occur. The result is incomplete combustion, which produces carbon monoxide, a poisonous gas that can cause death.
- Safe operation of indirect-fired gas burning equipment requires a properly-operating vent system that vents all flue products to the outside atmosphere. Failure to provide proper venting will result in a health hazard that could cause serious personal injury or death.
- For all heater installations, always comply with the combustion air requirements in the installation codes and instructions. Standard power vent heaters installed in a confined space must be supplied with air for combustion as required by code and in the heater installation manual. On separated-combustion heaters, install either the horizontal or vertical combustion air/vent system using the concentric adapter supplied. Combustion air at the burner should be regulated only by manufacturer-provided equipment. Never restrict or otherwise alter the supply of combustion air to any heater. Maintain the vent or vent/combustion air system in structurally sound and proper operating condition.
- Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operation and maintenance instructions thoroughly before installing or servicing this equipment.

DO NOT DESTROY. PLEASE READ CAREFULLY. KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

#### **GENERAL INFORMATION—CONTINUED**



#### **Heater Component Locations**

### **CONVERSION KIT SELECTION**

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The conversion kit is to be selected and installed by a qualified service person in accordance with these instructions and in compliance with all codes and requirements of authorities having jurisdiction. Failure to follow instructions could result in death, serious injury, and/or property damage. The qualified agency performing this work assumes responsibility for this conversion.

Each conversion kit includes two or three spring kits and burner orifices for multiple unit sizes. Some parts will not be used—carefully select the parts to be used.

| Table 2. Conversion Kit Common Components—All Models |   |        |  |  |  |  |  |  |
|--|---|--------|--|--|--|--|--|--|
| Component  | Description   | PN     |  |  |  |  |  |  |
| Таре   | Conversion  | 64391  |  |  |  |  |  |  |
| Disk   | Propane (included in all NG to LP kits)   | 37752  |  |  |  |  |  |  |
| DISK   | Natural gas (included in all LP to NG kits)   | 1401   |  |  |  |  |  |  |
| Label  | High-elevation adjustment (used only at installation elevations >2000 feet (>610 meters)) | 197062 |  |  |  |  |  |  |
| Burner orifice                                       | Refer to Table 3  |        |  |  |  |  |  |  |

|                         | Table                  | 3. Burner Orifices-  | -All Models | ;                    |         |  |  |  |
|-------------------------|------------------------|----------------------|-------------|----------------------|---------|--|--|--|
| Unit Size Model Propane |                        |                      |             |                      |         |  |  |  |
| (MBTUh)                 | Model                  | Orifice Size/Marking | PN          | Orifice Size/Marking | PN      |  |  |  |
| 30                      | UDAP, UDAS, UDBP, UDBS | #37                  | 196853      | 1.60 mm              | 196844  |  |  |  |
|                         | UBX, UBZ, UDX, UDZ     | #39                  | 196852      | 1.60 mm              | 190044  |  |  |  |
|                         | UBXC, UDXC             | #37                  | 196853      | 1.65 mm              | 1043044 |  |  |  |
|                         | UDAP, UDAS, UDBP, UDBS | #30                  | 196838      | #48                  | 196845  |  |  |  |
| 45                      | UBX, UBZ, UDX, UDZ     | 3.10 mm              | 120144      | #40                  |         |  |  |  |
|                         | UBXC, UDXC             | 3.20 mm              | 196847      | #47                  | 1043047 |  |  |  |
|                         | UDAP, UDAS, UDBP, UDBS | 3.70 mm              | 196839      | 2.30 mm              | 196846  |  |  |  |
| 60                      | UBX, UBZ, UDX, UDZ     | #28                  | 124969      | 2.25 mm              | 1034350 |  |  |  |
|                         | UBXC, UDXC             | #20                  | 124969      | 3/32 inch            | 1043046 |  |  |  |
|                         | UDAP, UDAS, UDBP, UDBS | #19                  | 196855      | #39                  | 196852  |  |  |  |
| 75                      | UBX, UBZ, UDX, UDZ     | #22                  | 196361      | #40                  | 120137  |  |  |  |
|                         | UBXC, UDXC             | #20                  | 120153      | #39                  | 196852  |  |  |  |
|                         | UDAP, UDAS, UDBP, UDBS | #10                  | 120158      | 3.00 mm              | 196854  |  |  |  |
| 100                     | UBX, UBZ, UDX, UDZ     | #14                  | 208247      | "00                  | 100111  |  |  |  |
|                         | UBXC, UDXC             | #12                  | 120157      | #32                  | 120141  |  |  |  |
|                         | UDAP, UDAS, UDBP, UDBS | #4                   | 196840      | 3.20 mm              | 196847  |  |  |  |
| 125                     | UBX, UBZ, UDX, UDZ     | #10                  | 120158      | 3.10 mm              | 120144  |  |  |  |
|                         | UBXC, UDXC             | #6                   | 1043045     | #30                  | 196838  |  |  |  |
|                         | UDAP, UDAS, UDBP, UDBS | 5.90 mm              | 131581      | 9/64-inch            | 196898  |  |  |  |
| 150                     | UBX, UBZ, UDX, UDZ     | 5.00                 | 000040      | 2.50 mm              | 120148  |  |  |  |
|                         | UBXC, UDXC             | 5.60 mm              | 208243      | 3.50 mm              |         |  |  |  |
|                         | UDAP, UDAS, UDBP, UDBS | E                    | 196891      | #24                  | 196899  |  |  |  |
| 175                     | UBX, UBZ, UDX, UDZ     | 6.00 mm              | 208245      | #27                  | 120149  |  |  |  |
|                         | UBXC, UDXC             | С                    | 120164      | #24                  | 196899  |  |  |  |
|                         | UDAP, UDAS, UDBP, UDBS | 6.80 mm              | 196892      | 4.10 mm              | 196900  |  |  |  |
| 200                     | UBX, UBZ, UDX, UDZ     | F                    | 100107      | 4.10 mm              |         |  |  |  |
|                         | UBXC, UDXC             | F                    | 120167      | #19                  | 196855  |  |  |  |
|                         | UDAP, UDAS, UDBP, UDBS |                      |             |                      |         |  |  |  |
| 225                     | UBX, UBZ, UDX, UDZ     | 6.95 mm              | 221121      | 11/64 inch           | 196901  |  |  |  |
|                         | UBXC, UDXC             |                      |             |                      | 1       |  |  |  |
|                         | UDAP, UDAS, UDBP, UDBS |                      |             | #14                  | 196902  |  |  |  |
| 250                     | UBX, UBZ, UDX, UDZ     | L                    | 208255      | 4.00 mm              | 1004050 |  |  |  |
|                         | UBXC, UDXC             |                      |             | 4.60 mm              | 1034352 |  |  |  |
|                         | UDAP, UDAS, UDBP, UDBS | 8.00 mm              | 221122      |                      |         |  |  |  |
| 300                     | UBX, UBZ, UDX, UDZ     | 7.00 mm              | 000050      | #8                   | 196903  |  |  |  |
|                         | UBXC, UDXC             | 7.80 mm              | 208253      |                      |         |  |  |  |
|                         | UDAP, UDAS, UDBP, UDBS | 8.70 mm              | 221123      | #3                   | 196904  |  |  |  |
| 350                     | UBX, UBZ, UDX, UDZ     | 0.50                 | 100 105 1   | F 40                 | 1004050 |  |  |  |
|                         | UBXC, UDXC             | 8.50 mm              | 1034354     | 5.40 mm              | 1034353 |  |  |  |
|                         | UDAP, UDAS, UDBP, UDBS | 9.60 mm              | 196897      |                      | 196905  |  |  |  |
| 400                     | UBX, UBZ, UDX, UDZ     | 9.20 mm              | 1034355     | 5.80 mm              |         |  |  |  |
|                         | UBXC, UDXC             | 9.60 mm              | 196897      | 7                    |         |  |  |  |

### CONVERSION KIT SELECTION—CONTINUED

| Tal                     | Table 4. NG to LP Kit-Specific Components for UBX, UBXC, UBZ, UDX, UDXC, and UDZ Models |   |  |   |          |   |          |  |  |  |  |  |
|-------------------------|---|---|--|---|----------|---|----------|--|--|--|--|--|
|                         | Description   | Gas Valve (Honeywell Model No.)   |  |   |          |   |          |  |  |  |  |  |
| Component               |   | 1/2-Inch, Single-<br>Stage (VR8105K2942,<br>VR8205K2957, or<br>VR8215T1239) |  | 1/2-Inch, Single-<br>Stage (VR8105K2942,<br>VR8205K2957, or<br>VR8215T1239)<br>or<br>1/2-Inch, Two-Stage<br>(VR8105N2949 or<br>VR8205N2921) |          | 1/2-Inch, Single-Stage<br>(VR8205K2957 or<br>VR8215T1239)<br>or<br>1/2-Inch, Two-Stage<br>(VR8205N2921) |          | 1/2-Inch,<br>Single-Stage<br>(VR8205K2957<br>or<br>VR8215T1239),<br>3/4-Inch<br>Single-Stage<br>(VR8305K4241),<br>or<br>1/2-Inch,<br>Two-Stage<br>(VR8205N2921<br>or<br>VR8305N4297) | 3/4-Inch<br>Single-Stage<br>(VR8305K4241)<br>or<br>3/4-Inch,<br>Two-Stage<br>(VR8305N4297) |  |  |  |
|                         |   |   |  |   | Uni      | t Size (MBTL  | Jh)      | 1  |  |  |  |  |
|                         |   | 30,   | 45   | 60,   | 75       | 100, 125  | 150, 175 | 200, 225, 250  | 300, 350, 400  |  |  |  |
|                         |   |   |  |   |          | Model   |          |  |  |  |  |  |
|                         |   | UBX, UBZ  | UBX, UBZ   UDX, UDZ   UBX, UBZ   UDX, UDZ   UBX, UBZ, UDX, UDZ |   |          |   |          |  |  |  |  |  |
|                         |   | 10005440  | 10005000   | 10005400  | 10005070 | Kit PN  | 10005000 | 10005400   | 40005400   |  |  |  |
|                         |   | 1036541R  | 1036536R   | 1036542R  | 1036537R | 1036538R<br>Model   | 1036539R | 1036540R   | 1036543R   |  |  |  |
|                         |   | UBXC, UDXC  |  |   |          |   |          |  |  |  |  |  |
|                         |   | Kit PN  |  |   |          |   |          |  |  |  |  |  |
|                         |   | 1043184   |  | 1043185   |          | 1043186   | 1043187  | 1043188  | 1043189  |  |  |  |
|                         |   | Component PN  |  |   |          |   |          |  |  |  |  |  |
|                         | #393691 for single-<br>stage valve VR8105,<br>VR8205, or VR8305                         | 987   | 720  | 98720   |          | 98720   |          | 98720  |  |  |  |  |
| Spring kit              | #396221 for single-<br>stage valve VR8215   | 260605  |  | 260605  |          | 260605  |          | 260605   |  |  |  |  |
|                         | #396021 for two-<br>stage valve VR8105,<br>VR8205, or VR8305                            | _   |  | 197207  |          | 197207  |          | 197207   |  |  |  |  |
| Air restrictor<br>plate | 1-3/16-inch (30 mm)<br>opening  | 203078  | —  |   |          |   |          |  |  |  |  |  |
|                         | 1-3/8-inch (35 mm)<br>opening   | _   | 196687   |   | _        |   |          | _  |  |  |  |  |
|                         | 1-9/16-inch (40 mm)<br>opening  | _   | _  | 202051  | _        |   |          |  |  |  |  |  |
|                         | 1-3/4-inch (44 mm)<br>opening   | _   |  |   | 196688   | 196688  |          |  |  |  |  |  |

| Table 5. LP to NG Kit-Specific Components for UBX, UBZ, UDX, and UDZ Models |   |  |                       |   |                         |  |   |  |  |
|---|---|--|-----------------------|---|-------------------------|--|---|--|--|
|   | Description   | Gas Valve (Honeywell Model No.)  |                       |   |                         |  |   |  |  |
| Component   |   | 1/2-Inch,<br>Single-Stage<br>(VR8105K2959,<br>VR8205K2965,<br>or<br>VR8215T5214) | (VR85K29<br>V<br>1/2- | nch, Single-S<br>959, VR8205<br>R8215T5214<br>or<br>Inch, Two-St<br>2931 or VR8 | K2965, or<br>l)<br>tage | 1/2-Inch,<br>Single-Stage<br>(VR85K2959,<br>VR8205K2965, or<br>VR8215T5214),<br>3/4-Inch<br>Single-Stage<br>(VR8305N4258),<br>1/2-Inch,<br>Two-Stage<br>(VR8105N2931 or<br>VR8205N2913), or<br>3/4-Inch,<br>Two-Stage<br>(VR8305N4289) | 3/4-Inch<br>Single-Stage<br>(VR8305N4258)<br>or 3/4-Inch,<br>Two-Stage<br>(VR8305N4289) |  |  |
|   |   | Unit Size (MBTUh)  |                       |   |                         |  |   |  |  |
|   |   | 30, 45   | 60, 75                | 100, 125  | 150, 175                | 200, 225, 250  | 300, 350, 400   |  |  |
|   |   | Kit PN   |                       |   |                         |  |   |  |  |
|   |   | 1036544R   | 1036545R              | 1036546R  | 1036547R                | 1036548R   | 1036549R  |  |  |
|   |   | Component PN   |                       |   |                         |  |   |  |  |
|   | #394588 for single-stage valve<br>VR8105, VR8205, or VR8305 | 98721  |                       | 98721   |                         | 98721  |   |  |  |
| Spring kit  | #396222 for single-stage valve<br>VR8215                    | 26165  | 1 2616                |   | 651                     | 261651   | _   |  |  |
|   | #396205 for two-stage valve<br>VR8105, VR8205, or VR8305    | — 197208   |                       | 197208  |                         | 197208   |   |  |  |

| Table 6.         NG to LP Kit-Specific Components for UDAP, UDAS, UDBP, and UDBS Models |   |                            |  |               |   |              |  |  |               |  |  |
|---|---|----------------------------|--|---------------|---|--------------|--|--|---------------|--|--|
|   |   |                            |  |               | Gas Valve   | (Honeywe     | II Model No  | o.)  |               |  |  |
| Component   | Description   | Single<br>(VR810<br>VR8205 | 1/2-Inch,<br>Single-Stage<br>(VR8105K2942,<br>VR8205K2957, or<br>VR8215T1239)<br>(VR8105N2942,<br>VR8205K2957, or<br>VR8215T1239) or<br>1/2-Inch, Two-Stage<br>(VR8105N2949 or<br>VR8205N2921) |               | 1/2-Inch,<br>Single-Stage<br>(VR8205K2957 or<br>VR8215T1239) or<br>1/2-Inch, Two-Stage<br>(VR8205N2921) |              | 1/2-Inch,<br>Single-Stage<br>(VR8205K2957<br>or<br>VR8215T1239),<br>3/4-Inch<br>Single-Stage<br>(VR8305K4241),<br>or<br>1/2-Inch,<br>Two-Stage<br>(VR8205N2921<br>or<br>VR8305N4297) | 3/4-Inch<br>Single-Stage<br>(VR8305K4241)<br>or<br>3/4-Inch,<br>Two-Stage<br>(VR8305N4297) |               |  |  |
|   |   |                            |  |               |   | nit Size (MB |  |  |               |  |  |
|   |   | 30,                        | 45   | 60,           | 75  | 100, 125     | 150, 175   | 200, 225, 250  | 300, 350, 400 |  |  |
|   |   |                            | Model  |               |   |              |  |  |               |  |  |
|   |   | UDAP,<br>UDAS              | UDBP,<br>UDBS  | UDAP,<br>UDAS | UDBP,<br>UDBS   | All          |  |  |               |  |  |
|   |   | Kit PN                     |  |               |   |              |  |  |               |  |  |
|   |   | 1036536R                   | 1036541R   | 1036537R      | 1036542R  | 1036538R     | 1036539R   | 1036540R   | 1036543R      |  |  |
|   |   | Component PN               |  |               |   |              |  |  |               |  |  |
|   | #393691 for single-<br>stage valve VR8105,<br>VR8205, or VR8305   | 98720                      |  | 98720         |   | 98720        |  | 98720  |               |  |  |
| Spring kit  | #396221 for single-<br>stage valve VR8215   | 260605                     |  | 260605        |   | 260605       |  | 260605   | —             |  |  |
|   | #396021 for two-<br>stage valve VR8105,<br>VR8205, or VR8305  | _                          |  | 197207        |   | 197207       |  | 197207   |               |  |  |
|   | 1-3/8-inch (35 mm)<br>opening   | 196687                     | _  |               |   |              |  |  |               |  |  |
| Air restrictor  | 1-3/16-inch (30 mm)<br>opening  | —                          | 203078   | —             |   | _            |  |  |               |  |  |
| plate   | 1-3/4-inch (44 mm)<br>opening   |                            | _  | 196688 —      |   | 196688*      |  | _  | _             |  |  |
|   | 1-9/16-inch (40 mm)<br>opening  |                            |  |               | 202051  | —            |  |  |               |  |  |
|   | *The plate from kit PN 1036538R is not used on unit size 125 models. The plate from kit PN 1036539R is not used on unit size 175 models for residential or commercial applications. |                            |  |               |   |              |  |  |               |  |  |

### CONVERSION KIT SELECTION—CONTINUED

| Table 7. LP to NG Kit-Specific Components for UDAP, UDAS, UDBP, and UDBS Models |   |  |   |          |  |   |               |  |
|---|---|--|---|----------|--|---|---------------|--|
|   |   | Gas Valve (Honeywell Model No.)  |   |          |  |   |               |  |
| Component   | Description   | 1/2-Inch,<br>Single-Stage<br>(VR8105K2959,<br>VR8205K2965,<br>or<br>VR8215T5214) | 9, VR8215T5214)<br>5, or<br>1/2-Inch, Two-Stage |          | 1/2-Inch,<br>Single-Stage<br>(VR85K2959,<br>VR8205K2965,<br>or<br>VR8215T5214),<br>3/4-Inch<br>Single-Stage<br>(VR8305N4258),<br>1/2-Inch,<br>Two-Stage<br>(VR8105N2931)<br>or<br>VR8205N2913),<br>or<br>3/4-Inch,<br>Two-Stage<br>(VR8305N4289) | 3/4-Inch<br>Single-Stage<br>(VR8305N4258)<br>or 3/4-Inch,<br>Two-Stage<br>(VR8305N4289) |               |  |
|   |   | Unit Size (MBTUh)  |   |          |  |   |               |  |
|   |   | 30, 45   | 60, 75  | 100, 125 | 150, 175   | 200, 225, 250   | 300, 350, 400 |  |
|   |   | Kit PN   |   |          |  |   |               |  |
|   |   | 1036544R   | 1036545R  | 1036546R | 1036547R   | 1036548R  | 1036549R      |  |
|   |   |  |   | 1        |  |   |               |  |
|   | #394588 for single-stage valve<br>VR8105, VR8205, or VR8305 | 98721  | 1   | 98721    |  | 987   | 21            |  |
| Spring kit  | #396222 for single-stage valve<br>VR8215                    | 26165  | 51 261  |          | 651  | 261651  | _             |  |
|   | #396205 for two-stage valve<br>VR8105, VR8205, or VR8305    | _  | 197208  | 197208   |  | 197208  |               |  |

### **INSTALLATION**

Install the conversion kit in accordance with the following steps. Ensure that the kit is correct for the size of the heater being serviced.

- 1. Remove gas supply and electrical power:
  - a. Turn OFF gas supply at shutoff valve outside of heater.
  - b. Turn OFF electrical power.
  - c. Open control access panel.
- 2. Install regulator spring kit:

### A WARNING A

Regulator spring kits are not interchangeable. Each kit must be used only in the model and type of gas valve for which the kit is designated. Verify compatibility before installing the regulator spring kit.

- a. Select regulator spring kit that corresponds with gas valve on heater. All gas conversion kits include one or two regulator spring kits for single-stage valve and one regulator spring for two-stage valve. Other included regulator spring kits will not be used.
- b. Install regulator spring kit in accordance with gas valve manufacturer's instructions (included with regulator spring kit).

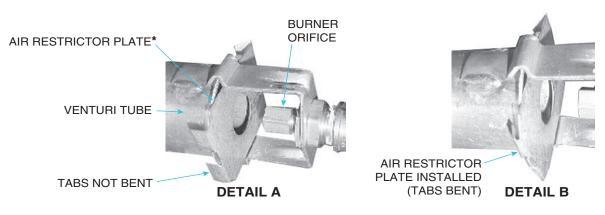
### 🛆 CAUTION 🛆

## After a new regulator spring kit is installed, it is necessary to adjust the spring by adjusting the manifold pressure. This adjustment can be made only after the heater is in operation (refer to step 7).

- 3. Remove or install air restrictor plate as necessary and replace burner orifice:
  - a. Carefully remove existing burner orifice (see Figure 2, DETAIL A).

### \Lambda DANGER 🛆

- The air restrictor plate MUST BE INSTALLED when converting unit sizes 30, 45, 60, 75, 100, and 150 (all models) and unit size 125 (models UDBP, UDBS, UBX, UBXC, and UBZ) to propane.
- The air restrictor plate MUST BE REMOVED when converting unit sizes 30, 45, 60, 75, 100, and 150 (all models) and unit size 125 (models UDBP, UDBS, UBX, UBXC, and UBZ) to natural gas.
- For these models/unit sizes, the failure to install or remove the air restrictor plate in accordance with the following directions can cause death or injury and/or property damage.
  - b. For unit sizes 30, 45, 60, 75, 100, and 150 (all models) and unit size 125 (models UDBP, UDBS, UBX, UBXC, and UBZ), proceed to step c. For all other models/unit sizes, proceed to step e.
  - c. If converting from propane to natural gas, remove air restrictor plate as follows. If converting from natural gas to propane, install air restrictor plate in accordance with step d.
    - (1) See Figure 2, DETAIL B to locate air restrictor plate held in place on venturi tube by its bent tabs.
    - (2) Use pliers to carefully unbend tabs as shown in Figure 2, DETAIL A and remove air restrictor plate.
  - d. For natural gas to propane conversion, install air restrictor plate as follows:
    - (1) Refer to **Table 4** or **Table 6** to select correct air restrictor plate. Slide plate in place over venturi tube opening so that its 45-degree angle is hooked over rear of venturi tube (see **Figure 2**).
    - (2) While holding plate in position, use pliers to carefully bend tabs to lock plate in place (see Figure 2, DETAIL B). Ensure that air restrictor is aligned and secure.



\*USED ONLY ON UNIT SIZES 30, 45, 60, 75, 100, AND 150 (ALL PROPANE MODELS) AND UNIT SIZE 125 (PROPANE MODELS UDBP, UDBS, UBX, UBXC, AND UBZ).

#### Figure 2. Burner Orifice and Air Restrictor Plate

e. For all conversions, select replacement burner orifices in accordance with **Table 3**. All conversion kits include two or three burner orifices. Other included orifice(s) will not be used.

### 🛆 WARNING 🛆

#### Do not attempt to drill burner orifice. Use factory-supplied orifice only.

f. Install replacement burner orifice (see Figure 2, DETAIL A).

### INSTALLATION—CONTINUED

### ▲ CAUTION ▲

If the heater will be operated at an elevation >6,000 feet (>1,830 meters), a high-elevation pressure switch must be installed.

#### NOTES:

- If the installation elevation is >6,000 feet (>1,830 meters), verify that the elevation on the rating plate or high-elevation label is >6,000 feet (>1,830 meters). If the rating plate or label does not indicate an elevation of >6,000 feet (>1,830 meters), order and install the appropriate high pressure switch kit.
- If the heater is equipped for installation at an elevation of >6,000 feet (>1,830 meters) and is being installed at a lower elevation, order and install the appropriate switch.
- Contact your distributor (refer to replacement parts manual) to select the factory-authorized replacement part.
- 4. For installations at elevations >6,000 feet (>1,830 meters), replace pressure switch in accordance with *Pressure Switch Replacement* section in installation/operation/maintenance manual provided with unit.
- 5. Restore electrical power and gas supply:
  - a. Turn ON electrical power.
  - b. Turn ON gas supply and relight heater, following instructions on heater.
- 6. Perform leak test:
  - a. Check all connections for gas leaks using commercial leak-detecting fluid or rich soap and water solution. Leaks are indicated by presence of bubbles.
  - b. If leak is detected, tighten connection. If leak cannot be stopped by tightening connection, replace part(s).

#### NOTES:

- Conversion of a unit using these kits does not alter the input rate. Refer to the rating plate on the heater for the input rate and other appropriate information.
- If adjusted for high-elevation operation, the input rate will be affected.
- The high-elevation adjustment label is not used on units operated at elevations of ≤2,000 feet (≤610 meters).
- 7. Adjust manifold (outlet) gas pressure in accordance with *Measure and Adjust Manifold (Outlet) Gas Pressure* section in installation/operation/maintenance manual provided with unit.
- 8. Close control access panel.

