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, an 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.

WARNING: For U.S. units, installation must be made in accordance with American National Standard National Fuel Gas Code, ANSI Z223.1 - latest edition, unless superseded by local codes. For Canadian installations, the conversion shall be carried out in accordance with the requirements of the Provincial authorities having jurisdiction and in accordance with the CAN1-B149.1 and .2 installation codes.

GENERAL

This kit is intended for the conversion of equipment from natural gas to propane for installations below 2,000 feet altitude with and without an inshot plate at the entrance of the heat exchanger tube. For higher elevations, an additional kit (1HA0441) will be required. This instruction covers the conversion only. The Installation Instruction supplied with the unit is to be used for all other aspects of the installation.

PARTS SUPPLIED WITH ACCESSORY

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6</td>
<td>029-20423-049</td>
<td>Burner Orifice, #49</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>025-26372-000</td>
<td>Propane Valve</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>035-11635-000</td>
<td>Propane Gas Conversion Label</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>035-14818-000</td>
<td>Accessory Instruction Form 530.18-N10.5V</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>029-20422-071</td>
<td>Pilot Orifice #71</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>035-14959-000</td>
<td>Overlay, Laminate</td>
</tr>
</tbody>
</table>
WARNING: Improper installation, adjustment, service or main-
tenance can cause injury or property damage; therefore only a qualified installer or qualified serv-
ience personnel should perform this conversion.

WARNING: If the unit has been connected to power sources,
make sure that all power to the unit is off and that
all gas sources are closed.

TABLE 1 - RATING/ORIFICE DATA
This appliance equipped only for altitudes 0 - 2000 feet.

<table>
<thead>
<tr>
<th>Gas Heat Input BTU/HR.</th>
<th>Gas Heat Output BTU/HR.</th>
<th>Manufacturer's Recommended Orifice Size (pressure I.W.C.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>163,000</td>
<td>128,770</td>
<td>Propane Burner Propane Pilot Propane 49 (10.0) 71 49 (10.0) 71 49 (10.0) 71</td>
</tr>
<tr>
<td>204,000</td>
<td>163,200</td>
<td></td>
</tr>
<tr>
<td>245,000</td>
<td>193,550</td>
<td></td>
</tr>
</tbody>
</table>

FURNACE CONVERSION

Before the gas and electrical power supplies are connected to
the unit, convert the unit for propane application as follows:

1. Remove the access panel to the gas heat compartment.
2. Disconnect the wiring from the gas valve and disconnect
the red high tension wires located under the burners from
the ignition control of the unit.
3. Remove the screws holding the right end of the manifold
assembly to the support (Refer to Fig. 1).
4. Carefully remove the manifold assembly with gas valve
attached by grasping the manifold with two hands, lifting up
and pulling it out of the unit.
5. Set this assembly up-side down and disconnect the pilot
tubing at the pilot. Remove the natural gas pilot orifice and
properly discard it.
6. Remove the main burner orifices from the manifold and
properly discard them.
7. Refer to Table 1 to verify that the proper size burner and
pilot orifices from this accessory are installed with the
respective heating section.
8. Install the propane orifices in the manifold, and tighten
them. After installing a propane orifice in each location, any
leftover orifices may be discarded.
9. Install the propane gas pilot orifice from this kit. Reconnect
and tighten the pilot tubing at the pilot.
10. Turn assembly right-side up and replace the natural gas
valve with the propane gas valve included in the kit.
11. Replace the assembly into the unit. Make sure that the
burners are properly aligned.
12. Replace the screws removed in Step 3.
13. Re-connect wiring that was disconnected in Step 2.
14. Refer to gas heat section of the unit installation instructions
for proper installation and start-up procedures.
15. See the section of this instruction labeled "Properly Filling
Out the Conversion Label".
16. Place the new lighting instruction label from this kit over the
existing label. Read the lighting instruction carefully. Make
note of the minimum clearance to combustible surfaces has
been increased from 24 inches to 28 inches on the from of
the unit.
17. See the section of this instruction labeled "Properly Filling
Out the Conversion Label".
PROPERLY FILLING OUT THE CONVERSION LABEL

1. Remove label 035-11635-000 from the shipping box. Check the box that states the unit has been converted from natural gas to propane and fill in the name of the organization making the conversion (if in Canada, the respective conversion station) and address.

2. Under "Rating After Conversion", write in the following:
   a. Orifice size, as stamped on the orifice.
   b. Maximum inlet pressure - 13.0 IWC.
   c. Minimum inlet pressure - 11.0 IWC.
   d. Manifold pressure - 10.0 IWC.
   e. Input, this will be the input on the data plate.
   f. Output rating, this will be the output from the data plate.

3. Under "Changes After Conversion", write in the following:
   a. Kit number, located on the outside of the box.
   b. Unit model number.
   c. Name and address of the organization making the conversion and date.

4. Remove the label backing and affix label adjacent to the unit data plate.

**NOTE:** Refer to the gas heat section of the unit installation instructions for proper installation and start-up procedures.

5. Apply the laminate overlay included in the kit over the conversion label.

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**TESTS AND ADJUSTMENTS (All Models)**

The following tests must be performed at the time of conversion:

**WARNING:** If the furnace is connected to gas and power supplies, make sure both are shut off before proceeding.

1. Connect a manometer to the pressure tap in the manifold. Connect the power and gas supplies to the unit, if not already connected.

2. Turn on the gas supply, and bleed air from the gas supply lines at a point as close to the inlet of the gas valve as is practical. Turn gas valve knob to the ON position.

3. Connect a jumper between terminals "R" and "W" on the circuit board to simulate a call for heat.

4. Make sure unit electrical disconnect switch is in the OFF position, then energize the power supply to the disconnect switch.

5. Turn unit electrical disconnect switch ON. The combustion blower should start and the pilot electrode should start sparking.

6. After air has been purged from the pilot supply line, pilot ignition should occur. Shortly after pilot ignition, the main gas valve will open as indicated by the manometer. Main Burner ignition may be delayed on the first ignition cycle due to air in the gas manifold.

7. Observe several ignition cycles. The pilot burner and all main burners must ignite without delayed ignition or burning at the orifices. If delayed ignition is observed, verify that pilot flame is adjusted correctly (refer to Pilot Flame Adjustment section of the unit installation instruction), and that the pilot is properly mounted (not loose or crooked on bracket, bracket not bent or loose on main burner).

8. Adjust the manifold pressure to 10.0 IWC with gas supplied to the unit at a pressure of 11 to 13 inches IWC.

9. If burning at the orifices, excessive yellow tipping, or excessive noise is observed during any phase of main burner operation, adjust the main burner air shutters (See Figure 3) to eliminate the problem(s).

10. With main burners ignited, check for gas leaks, especially in the following locations: pilot tubing connection at the pilot valve, gas valve inlet and outlet connections, manifold union in the burner compartment, and main burner orifices where they thread into the manifold. Repair any leaks found, and recheck. **DO NOT CHECK WITH OPEN FLAME.**

11. With main burners off, disconnect the manometer and replace the manifold plug. Check for gas leaks at this plug.

12. Remove jumpers and replace all access panels.