

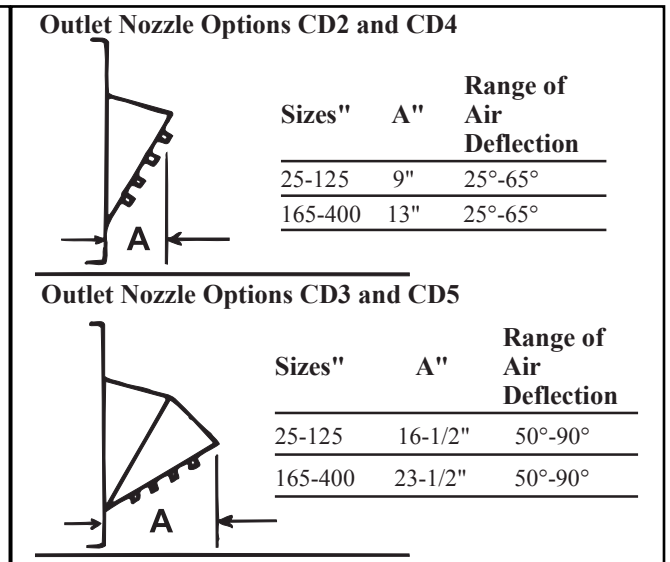
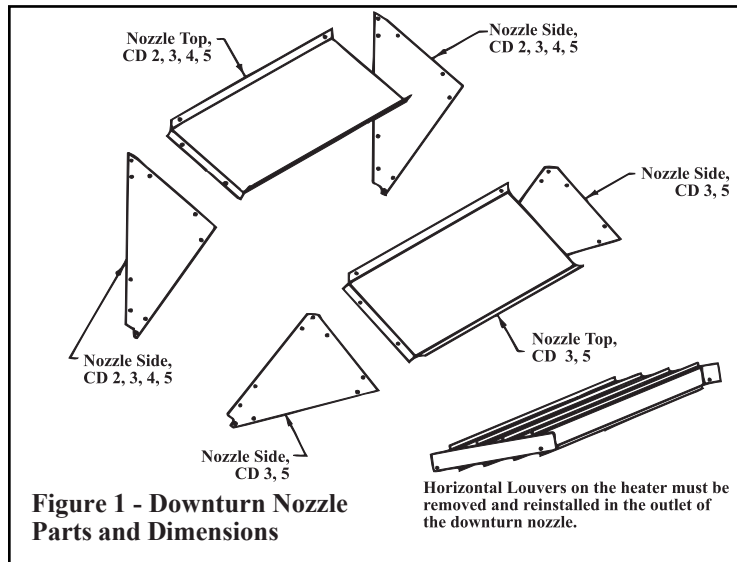
HAZARD INTENSITY LEVELS

1. **DANGER:** Failure to comply will result in severe personal injury or death and/or property damage.
2. **WARNING:** Failure to comply could result in severe personal injury or death and/or property damage.
3. **CAUTION:** Failure to comply could result in minor personal injury or death and/or property damage.

Options CD2, CD3, CD4, CD5
Downturn Air Nozzles
Applies: Models F, FE, B & BE

The option packages include:

| | Option Package P/N | 25-50 | | 75 | | 100 | | 125 | | 130 | | 165 | | 200 | | 250-300 | | 400 | |
|---|--------------------|-------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|---------------|---------|---------------|-------|---------------|
| | | Qty | P/N | Qty | P/N | Qty | P/N | Qty | P/N | Qty | P/N | Qty | P/N | Qty | P/N | Qty | P/N | Qty | P/N |
| Option CD2 - Downturn Nozzle with 25°- 65° Variable Air Deflection Range (formerly identified as a 30° nozzle.) | Option Package P/N | | 98525 | | 98526 | | 98527 | | 135512 | | 98528 | | 98529 | | 98530 | | 98531 | | 98532 |
| | Nozzle Side | 2 | 97874 | 2 | 97874 | 2 | 97874 | 2 | 97874 | 2 | 97875 | 2 | 97875 | 2 | 97875 | 2 | 97875 | 2 | 97875 |
| | Nozzle Top | 1 | 97876 | 1 | 97877 | 1 | 97878 | 1 | 135509 | 1 | 97879 | 1 | 97880 | 1 | 97881 | 1 | 97882 | 1 | 97904 |
| | Hanger Bracket | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 |
| | Screws | 10 | 11813 | 10 | 11813 | 10 | 11813 | 10 | 11813 | 10 | 11813 | 10 | 11813 | 10 | 11813 | 10 | 11813 | 12 | 11813 |
| Option CD3 - Downturn Nozzle with 50°- 90° Variable Air Deflection Range (formerly identified as a 60° nozzle.) | Option Package P/N | | 98533 | | 98534 | | 98535 | | 135513 | | 98536 | | 98537 | | 98538 | | 98539 | | 98540 |
| | Nozzle Side | 4 | 97874 | 4 | 97874 | 4 | 97874 | 4 | 97874 | 4 | 97875 | 4 | 97875 | 4 | 97875 | 4 | 97875 | 4 | 97875 |
| | Nozzle Top | 2 | 97876 | 2 | 97877 | 2 | 97878 | 2 | 135509 | 2 | 97879 | 2 | 97880 | 2 | 97881 | 2 | 97882 | 2 | 97904 |
| | Hanger Bracket | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 |
| | Screws | 16 | 11813 | 16 | 11813 | 16 | 11813 | 16 | 11813 | 16 | 11813 | 16 | 11813 | 16 | 11813 | 16 | 11813 | 20 | 11813 |
| Option CD4 - Downturn Nozzle with 25°- 65° Variable Air Deflection Range and Vertical Louvers | Option Package P/N | | 98541 | | 98542 | | 98543 | | 135510 | | 98544 | | 98545 | | 98546 | | 98547 | | 98548 |
| | Nozzle Side | 2 | 97874 | 2 | 97874 | 2 | 97874 | 2 | 97874 | 2 | 97875 | 2 | 97875 | 2 | 97875 | 2 | 97875 | 2 | 97875 |
| | Nozzle Top | 1 | 97876 | 1 | 97877 | 1 | 97878 | 1 | 135509 | 1 | 97879 | 1 | 97880 | 1 | 97881 | 1 | 97882 | 1 | 97904 |
| | Angle clip | 2 | 97915 | 2 | 97915 | 2 | 97915 | 2 | 97915 | 2 | 97915 | 2 | 97915 | 2 | 97915 | 2 | 97915 | 2 | 97915 |
| | Vertical Louver | 4 | 95937 | 4 | 95937 | 4 | 95937 | 6 | 95937 | 4 | 95938 | 4 | 95938 | 6 | 95938 | 8 | 95938 | 10 | 95938 |
| | Top/Btm Member | 2 | 97852 | 2 | 97853 | 2 | 97854 | 2 | 97856 | 2 | 97854 | 2 | 97855 | 2 | 97856 | 2 | 97857 | 2 | 97858 |
| | Hanger Bracket | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 | 2 | 96386 |
| | Screws | 24 | 11813 | 24 | 11813 | 24 | 11813 | 24 | 11813 | 24 | 11813 | 28 | 11813 | 28 | 11813 | 32 | 11813 | 38 | 11813 |
| Option CD5 - Downturn Nozzle with 50°- 90° Variable Air Deflection Range and Vertical Louvers | Option Package P/N | | 124918 | | 124919 | | 124920 | | 137302 | | 124921 | | 124922 | | 124923 | | 124924 | | 124926 |
| | Nozzle Side | 4 | 97874 | 4 | 97874 | 4 | 97874 | 4 | 97874 | 4 | 97875 | 4 | 97875 | 4 | 97875 | 4 | 97875 | 4 | 97875 |
| | Nozzle Top | 2 | 97876 | 2 | 97877 | 2 | 97878 | 2 | 135509 | 2 | 97879 | 2 | 97880 | 2 | 97881 | 2 | 97882 | 2 | 97904 |
| | Angle clip | 2 | 97915 | 2 | 97915 | 2 | 97915 | 2 | 97915 | 2 | 97915 | 2 | 97915 | 2 | 97915 | 2 | 97915 | 2 | 97915 |
| | Vertical Louver | 4 | 95937 | 4 | 95937 | 4 | 95937 | 6 | 95937 | 4 | 95938 | 4 | 95938 | 6 | 95938 | 8 | 95938 | 10 | 95938 |
| | Top/Btm Member | 2 | 97852 | 2 | 97853 | 2 | 97854 | 2 | 97856 | 2 | 97854 | 2 | 97855 | 2 | 97856 | 2 | 97857 | 2 | 97858 |
| Screws | 28 | 11813 | 28 | 11813 | 28 | 11813 | 28 | 11813 | 28 | 11813 | 32 | 11813 | 32 | 11813 | 36 | 11813 | 40 | 11813 | |



WARNING: 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.

INSTALLATION INSTRUCTIONS

Installation should be done by a qualified service agency in accordance with the instructions on this sheet and in compliance with all codes and requirements of authorities having jurisdiction,

Follow the instructions in the appropriate Section(s) for the option packages being installed:

| Option Pkg | Instructions | On Pages |
|------------|-----------------|----------|
| Option CD2 | Section A | 2-3 |
| Option CD3 | Section A | 2-3 |
| Option CD4 | Section A and B | 2-4 |
| Option CD5 | Section A and B | 2-4 |

Tools Required: 5/16" Nut Driver

Section A (See Figures 2-6 on page 3).

- 1. If the heater is installed, turn off the gas and the electric power.**
- 2. Add Suspension Points:**
 - If the heater is a Model F or FE factory equipped with four point suspension (Option BJ6) or a Model B or BE, skip to Step 3. (Note: The two hanger brackets in the package will not be used).
 - If the heater is a Model F or FE equipped with standard two point suspension, follow Steps a) through d) below to convert to four-point suspension. Two hanger brackets are included in the option package for this conversion.

Warning:
Failure to use four-point suspension could cause gas valve failure and subsequently personal injury, death and/or property damage.

- a) Remove the carton, the wooden crate bottom and the outer side panels of the heater.
- b) Position a new hanger bracket on the front portion of the inner side panel (See **Figure 2** for location). Remove the screw from the inner side panel at that location. Holding the bracket tight to the top of the heater, re-insert the screw through the slotted hole and attach the bracket to the inner side panel. The bracket must be tight to the top of the heater.
- c) Replace the outer side panel.
- d) Repeat Steps b) and c) on the opposite side of the heater.
- e) If the heater is already installed, suspend from the new hangers (See **Figure 3**). Heater must be level.

- 3) Remove the Horizontal Louver Assembly** -- Remove the horizontal louver assembly that is factory-installed in the front of the heater (screws are on the sides). Save the screws and the louver assembly. This louver assembly will be re-installed in the outlet of the downturn nozzle.
 - 4) Install the Downturn Nozzle Side Panels** -- Use the same holes and screws that held the louver assembly (removed in Step 3) to attach the side panels of the downturn nozzles. (See **Figure 4**).
 - 5) Attach the Downturn Nozzle Top Panel** -- Using the screws in the kit, attach the top of the downturn nozzle to the nozzle sides and to the front of the heater. (See **Figure 5**).
- INSTALLATION NOTE:** Whenever possible, always insert screws with pointed ends inside the nozzle.
- 6) If installing either Option CD3 or CD5** (nozzles with two sets of side panels and two tops), attach the two additional nozzle side panels to the side panels already installed. Attach the additional top to the new sides and the top installed in Step 5 (See **Figure 6**).
 - 7) Re-Install the Horizontal Louver Assembly** -- Attach the horizontal louver assembly removed from the front of the heater to the side panels at the outlet of the downturn nozzle. Adjust the louvers to obtain the desired air deflection.

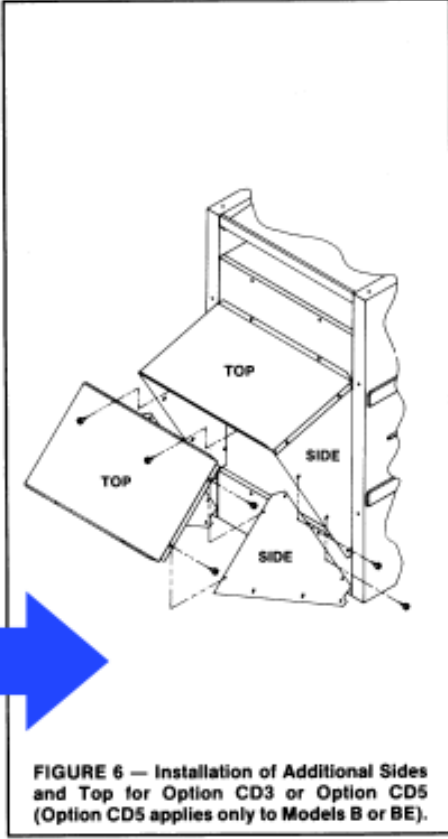
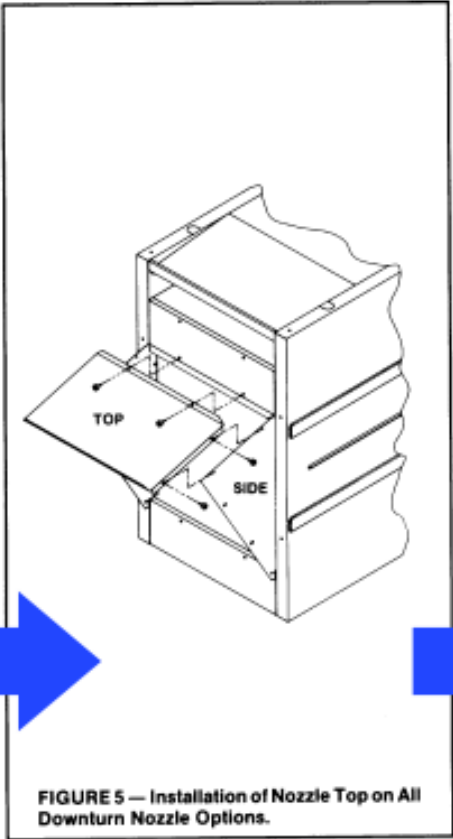
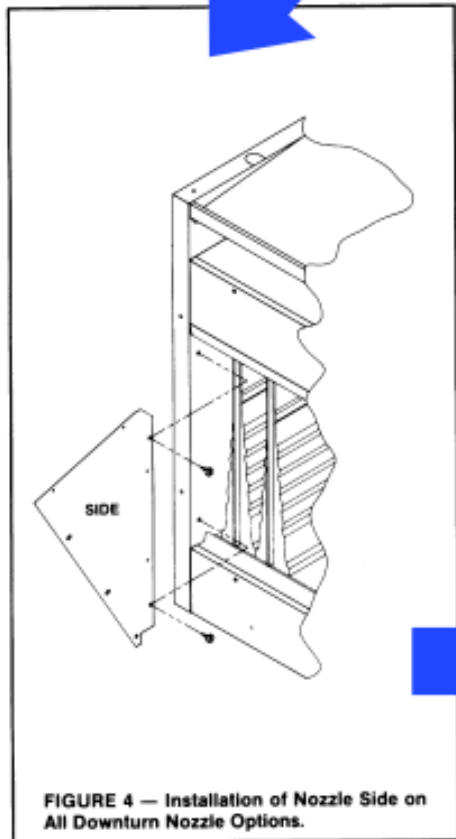
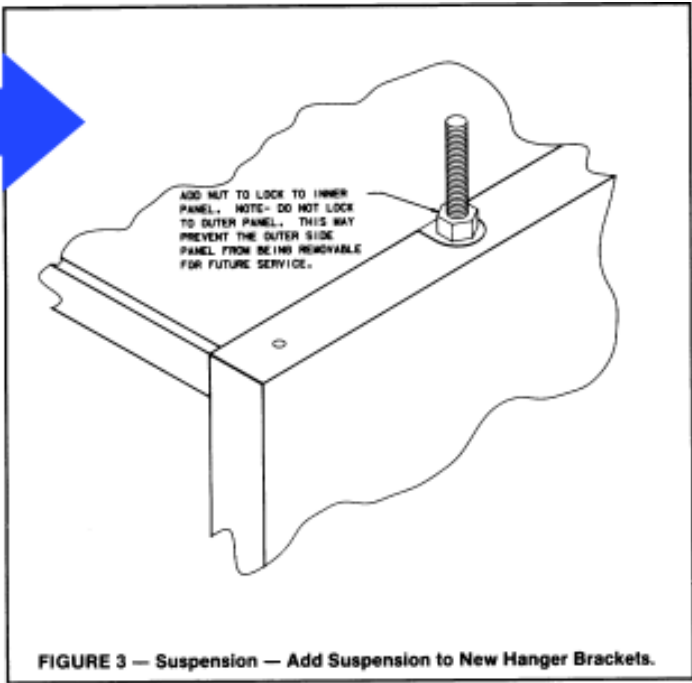
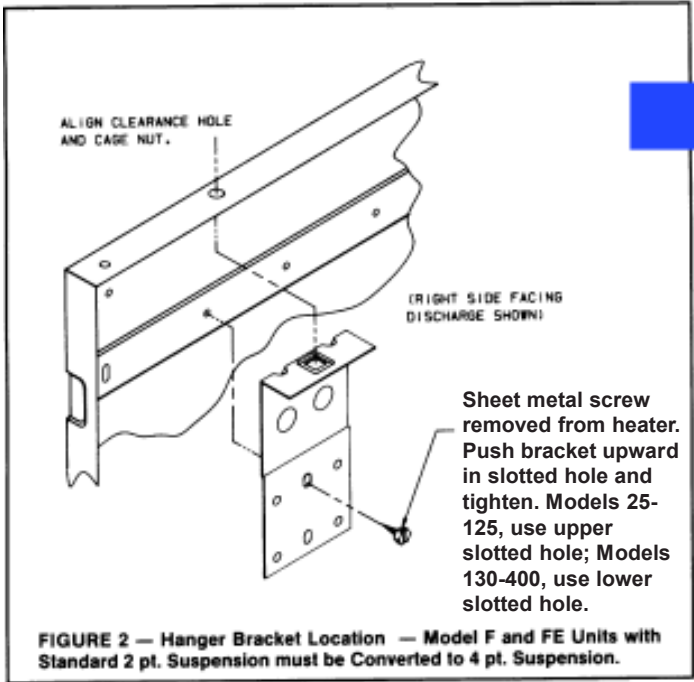
CAUTION:

To avoid getting burned, adjust the louvers while the heater is not in operation. If adjustments are required after the heater is in operation, wear protective gloves.

- 8) Installation of Option CD2 or CD3 is complete. If you are installing Option CD4 or CD5 (Option CD5 may be installed on blower models only) follow the instructions in Section B on page 4 to add the vertical louvers.**

If option installation is complete and the heater is installed, be sure that it is level. Turn on the electrical power and the gas. Light the heater, following the lighting instructions.

If option installation is complete and the heater is not installed and the wooden crate bottom has been removed, the bottom of the heater must be supported with plywood or appropriately placed boards when it is raised for suspension. If the bottom is not protected, the bottom access panel could be damaged. Install the heater in accordance with the instructions provided in the heater installation manual.



SECTION B (See Figures 7 and 8)

Additional instructions for installing Vertical Louvers in Option CD4 and Option CD5

Follow the instructions that apply to your application for installing the downturn nozzle. If the heater is installed, do not re-light until the vertical louvers have been added.

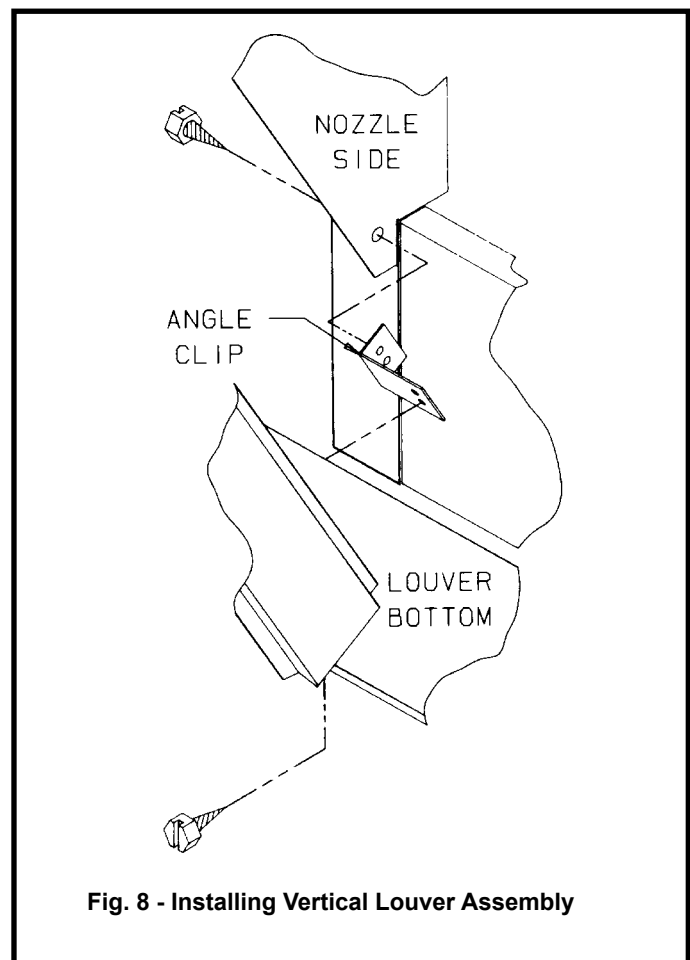
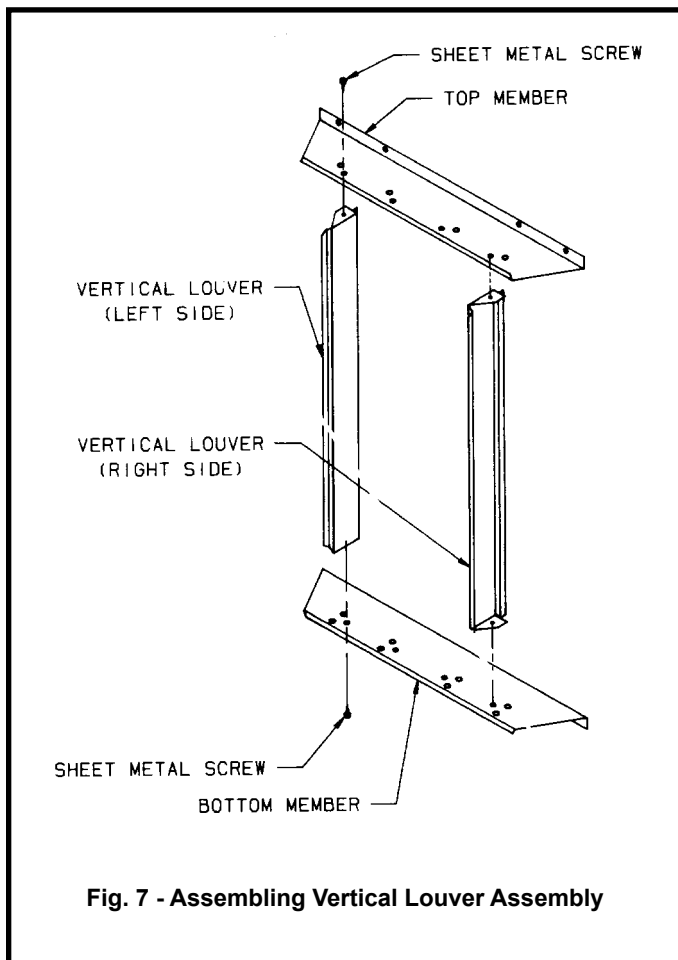
- 1. Assemble the Louvers** -- Assemble vertical louvers to the top and bottom members using the sheetmetal screws provided. (See Figure 7).
 - a) Vertical louver edges not extend beyond the front outer end of the louver top and bottom members.
 - b) Stops are designed so that the right half of the louvers turn right and the left half of the louvers turn left.
- 2. Attach the Vertical Louver Assembly** -- Screw the top of the vertical louver assembly to the top of the downturn nozzle.
- 3. Install Angle Clips (See Figure 8)** -- Attach the angle clip to the nozzle sides and to the louver assembly bottom.
- 4. Installation is complete.**

If the heater is installed, be sure that it is level. Turn on the electrical power and the gas. Light the heater, following the lighting instructions.

If the heater is not installed and the wooden crate bottom has been removed, the bottom of the heater must be supported with plywood or appropriately placed boards when it is raised for suspension. If the bottom is not protected, the bottom access panel could be damaged. Install the heater in accordance with the instructions provided in the installation manual.

CAUTION:

To avoid getting burned, adjust the louvers while the heater is not in operation. If adjustments are required after the heater is in operation, wear protective gloves.



IMPORTANT: Do not install vertical louvers in combination with a downturn nozzle with a 50° - 90° variable air deflection range (Option CD3) on a Model F or FE. That combination which is the same as Option CD5 is permissible only on blower unit, Models B and BE.

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