

H. FINISHING

1. Combustible Finishing Material

Material made of or surfaced with wood, compressed paper, plant fibers, plastics, or any material capable of igniting and burning, whether flame proofed or not, plastered or unplastered (this includes drywall).

2. Noncombustible Finishing Material

Material which will not ignite and burn. Such materials are those consisting entirely of steel, iron, brick, tile, concrete, slate, glass or plasters, or combination thereof, or have a UL Fire rating of Zero (0).

3. High Temperature Sealant Material

Sealants that will withstand high temperatures: General Electric RTV103 (Black) or equivalent; Rutland, Inc. Appliance Mortar #63 or equivalent.

A high temperature sealant, 1/8" minimum bead width, must be used to close off gaps between the appliance and facing to prevent cold air leaks. See Figure 53.

A combustible mantel may be installed. Please refer to Figure 4, page 7.

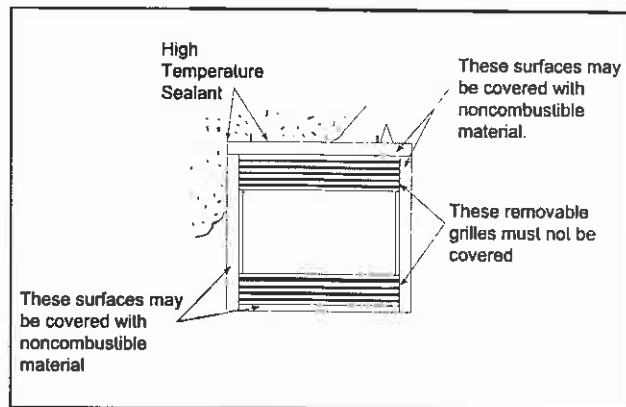


Figure 53 - Finishing Materials

I. APPLIANCE PREPARATION

1. Glass Removal

Remove the glass as shown in Figure 65 on page 30.

2. Dashboard Installation

a. Remove the dashboard (located in the upper firebox, center, attached with three screws). See Figure 54.



Figure 54 - Shipping Location of Dashboard

b. Locate and remove the two screws on the left side of the control panel and one screw on the right side. See Figure 55.

c. Hold the dashboard in front of the lower part of the appliance and plug in the wire as shown in Figure 51, page 21.

- d. Rotate the dashboard and place under the firebox (make sure the battery box wires are in the slot on the dashboard).
- e. Align the dashboard holes with the three holes on the control panel and attach with the three screws previously removed from the control panel. If any wires are exposed, tuck them behind the dashboard.
- f. See page 22 for dashboard switch wiring.

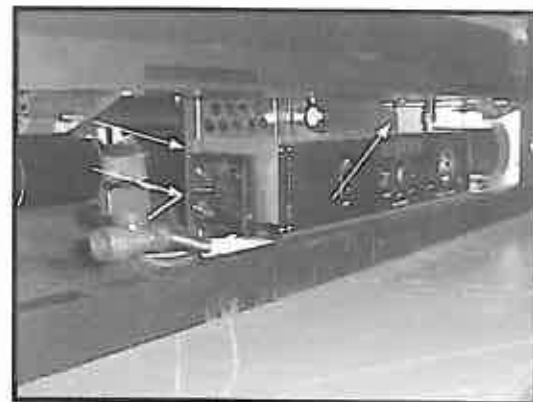


Figure 55 - Screw Locations

3. Placing the Rock Wool

Place a small amount of ½" diameter pieces on all exposed parts of the hearth log, but not on the burners. This will provide the "glowing embers" look. It is not necessary to use the entire bag. Save the remainder for future use. See Figure 56.

4. Setting the Logs - CNXT70E (36")

(For the CNXT90E log set up, skip to Step 5.)

See page 34 for log illustrations.

- a. Place LEFT FRONT LOG on the far left grate bar so the notch on the log sets on the horizontal portion of the grate bar and the body of the log is on the grate burner. See Figure 57.
- b. Place LEFT TOP LOG on the white notches of the left center log and the back log. Set the log so that the "Y" is pointed down. See Figure 58.
- c. Place RIGHT CENTER LOG on the white notches in the left center log and the back log. The log should set on the log tab welded to the back of the far right grate bar. The long leg of the "Y" in the log should point towards the front center of the log set. See Figure 59.



Figure 56 - Placing the Rock Wool



Figure 57 - Set Left Front Log



Figure 58 - Set Left Top Log



Figure 59 - Set Right Center Log

5. Setting the Logs - CNXT90E (42")

See page 34 for log illustrations.

- a. Place LEFT FRONT LOG on the front left corner of the far left grate bar. The rounded notch in the bottom of the log should set over the grate bar with the remainder of the log setting on the hearth log. See Figure 60.

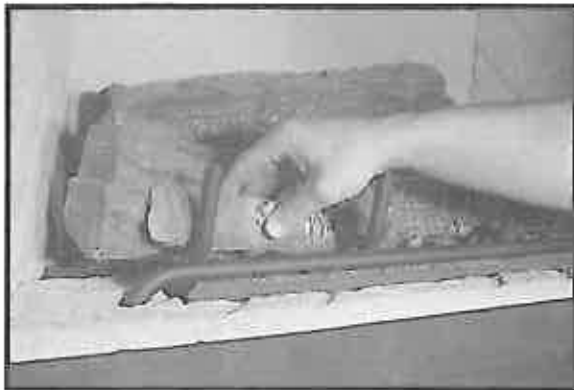


Figure 60 - Setting the Left Front Log

- b. Place TOP LEFT LOG so that the burnt tip of the log sets against the left center grate bar. The body of the log should rest on the white groove on the left center log and the groove in the back log (natural gas). See Figure 61. If your appliance is set up for LP gas, this log will not set on the back log.



Figure 61 - Placing Top Left Log
(Natural Gas Shown)

- c. Place RIGHT CENTER LOG so that the groove in the bottom of the log sets on the right grate bar. The log should set on the tip of the left center log against the log tab and against the tab on the right grate bar. See Figure 62.



Figure 62 - Placing the Right Center Log

6. Placing the Lava Rock and Vermiculite (optional)

You can place lava rock behind the sides of the hearth refractory. A small amount of vermiculite can be sprinkled over the lava rock. It is not necessary to use the entire bag.

7. Placing the Fire Glow

Fire glow (FIRE98) is a flame colorant material that adds to the realism of the gas appliance flame. After placing the rock wool in the appliance, sprinkle some of the fire glow on top of the rock wool. As with the lava rock, vermiculite and rock wool, it is not necessary to use the entire bag. Save the remainder for future use.

8. Replacing the Glass

Replace the glass as shown in Figure 65 on page 30.

**WARNING - RISK OF
CARBON MONOXIDE!!**

Do not hit or strike glass. Do not operate this appliance if the glass is broken or cracked.
NEVER operate this appliance with the glass removed or not sealed.

J. LIGHTING INSTRUCTIONS

FOR YOUR SAFETY READ BEFORE OPERATING

WARNING!

If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

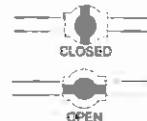
- A. This appliance is equipped with an ignition device which automatically lights the pilot. **Do not** try to light the pilot by hand.
- B. **BEFORE LIGHTING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
WHAT TO DO IF YOU SMELL GAS:
 - Do not try to light any appliance.
 - Do not touch any electric switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to close the gas line. Never use tools. If the knob will not push in or turn by hand, don't try to repair it; call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which as been under water.

INTERMITTENT PILOT IGNITION LIGHTING INSTRUCTIONS

1. Turn wall or dashboard switch to the OFF position.
2. This appliance is equipped with an ignition device which automatically lights the pilot. **Do not** try to light the pilot by hand.
3. Wait five minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above on this label. If you do not smell gas, go on to the next step.
4. Turn the switch to the ON position.
5. If the appliance will not operate, follow the instructions "TO TURN OFF THE GAS TO THE APPLIANCE" and call your service technician or gas supplier.
6. If using the battery pack and the appliance will not operate, check the batteries for sufficient charge and replace if necessary.

TO TURN OFF THE GAS TO THE APPLIANCE

1. Turn off the wall or dashboard switch.
2. Open control access panel. Turn manual shutoff valve to the CLOSED position. Do NOT force.
3. Close control access panel.



K. SEASONAL CHECK LIST

WARNING!

Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition. Young children should be carefully supervised when they are in the same room as the appliance.

CAUTION:

Any safety screen or guard removed for servicing this appliance must be replaced prior to operating this appliance.

Clothing or other flammable material should not be placed on or near the appliance.

Note: Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.

BEFORE OPERATING THIS APPLIANCE HAVE A QUALIFIED TECHNICIAN:

- * Review proper placement of logs, rock wool, lava rock, and vermiculite.
- * Check the wiring.
- * Check the air shutter adjustment.
- * Ensure that there are no gas leaks.
- * Ensure that the glass is sealed and in the proper position.
- * Ensure that the flow of combustion and ventilation air is not obstructed.

1. Intermittent Pilot Ignition Operation

- a. **Lighting the appliance during regular use:** Turn dashboard and/or wall switch to "ON".
- b. **Shutdown during regular use:** Turn all switches to "OFF".
- c. **To shut down the appliance for a long period of time:**
 - 1) Turn all switches to "OFF".
 - 2) Turn the manual shutoff valve to "CLOSED".
- d. To relight the appliance, see page 26.

2. Fuel

- a. Do not burn wood or other material in the appliance.
- b. Natural or propane gas conversions necessary to meet the application need to be made by a qualified technician using Hearth Technologies Inc. specified and approved parts.
- c. If your intermittent pilot appliance must be converted to use propane, you must use a DCKVPNXT Conversion Kit. To convert to use natural gas, use a DCKVNNXT Conversion Kit.

L. START-UP ISSUES

ISSUE	SOLUTIONS
1. Condensation on the glass	1. This is a result of gas combustion and temperature variations. As the appliance warms, this condensation should disappear.
2. Blue flames	2. This is a result of normal operation and the flames will begin to yellow as the appliance is allowed to burn.
3. Odor from appliance	3. When first operated, this appliance may release an odor for the first several hours. This is caused by the curing of the paint and the burning off of any oils remaining from manufacturing.
4. Film on the glass	4. This is a normal result of the curing process of the paint and logs. Glass should be cleaned within 4-6 hours of initial burning to remove deposits left by oils from the manufacturing process. A non-abrasive cleaner, such as Brasso may be necessary.

WARNING!

Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

WARNING!

Never use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid or similar liquids in this appliance. Keep any flammable liquids a safe distance from the appliance.

WARNING!

Keep the area near the appliance clear and free of combustible materials, gasoline and other flammable vapors and liquids.

M. MAINTENANCE INSTRUCTIONS

1. Annual Maintenance

To ensure that your heater operates in a safe and efficient manner, your heater needs to be inspected at least on an annual basis by a qualified field service person. Like any gas appliance, your heater must be tuned up to ensure optimum performance.

2. Cleaning the Burner and Control Compartment

Keep the burner and control compartment clean by brushing and vacuuming at least once a year. Failure to do this may shorten the fan's life. Always turn off the wall (or dashboard switch) and the gas valve before cleaning.

3. Checking Flame Patterns

- a. Check the flame of the burner periodically, making sure the flames are steady, not lifting or floating. The flame color should be blue with yellow tips. The sensor tip should be covered with flame from the pilot. See Figure 63.
 - **Correct** - Flames should be blue at the base, yellow-orange at the top.
 - **Not Enough Air** - The flames are tall or sooty on the ends. Open the air shutter.
 - **Too Much Air** - The flames are all blue, short and transparent. Close the air shutter.
- b. If the vent configuration is installed incorrectly, the vent may cause the flames inside the appliance to lift or "ghost," which is a dangerous situation. Inspect the flames after installation to ensure proper performance. If the vent configuration is correct, yet the flames are lifting or ghosting, shut off the gas to the appliance and contact the dealer.
- c. To reduce the possibility of soot, we have provided your appliance with an adjustable air shutter. Your air shutter is provided in the closed position for natural gas and in the open position for propane. It takes 16 full turns (360°) to move the air shutter from fully OPEN to fully CLOSED. In the event soot is accumulating in your appliance, the air shutter should be opened farther. This can be done by opening the control access panel and locating the air shutter handle (Figure 64) located on the bottom of the appliance. When the fixed wing bolt is turned all of the way **DOWN**, the air shutter is fully closed. When the fixed wing bolt is turned all the way **UP**, the air shutter is fully open.

4. Venting System Inspection

The appliance and venting system should be inspected before use, and at least annually by a qualified field service person, to ensure that the flow of combustion and ventilation air is not obstructed.

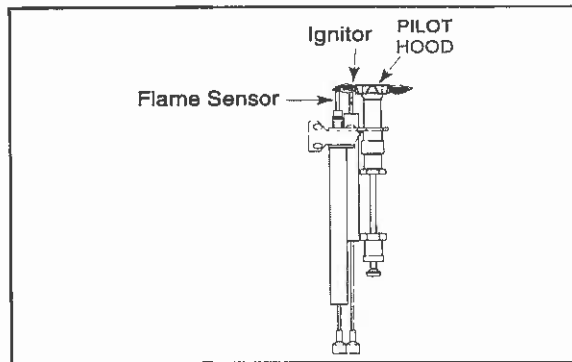


Figure 63 - Intermittent Pilot Ignition Assembly

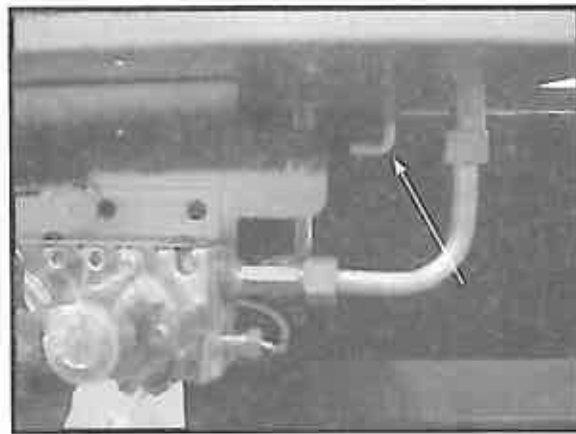
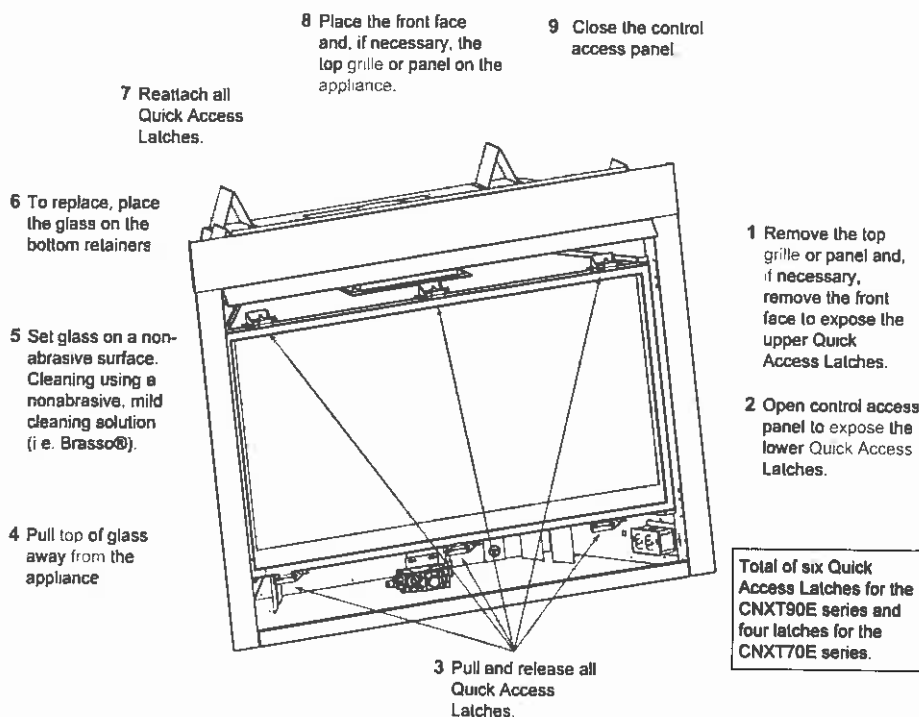


Figure 64 - Air Shutter Handle Location

5. Cleaning the Glass

The glass panel and its gasket must be inspected at least once a year. See Figure 65 for glass panel removal instructions.

- Carefully inspect the fixed glass door gasket to make certain it is sealing properly. Check for worn spots and/or where the gasket may have come loose from the frame. Replace the gasket if it is worn or has come loose from the frame.
- Clean the glass (only when cool!) with a nonabrasive cleaner such as Brasso®.
- Never operate this appliance without the glass properly secured in place or if the glass is broken.
- In the event of glass breakage, carefully remove the glass frame. This will allow the removal of all glass fragments and sheet metal edge protection strips. Vacuum all remaining glass pieces with a shop vac. **DO NOT VACUUM IF THE PIECES ARE HOT!** Replace the glass only with a Heatilator glass panel assembly ordered through your local distributor. Never use substitute material. Only ceramic glass may be used on this appliance.



Safety Note
Handle glass with care to avoid striking, scratching or slamming shut. NEVER clean the glass when it is hot. Keep children and pets a safe distance away

Figure 65 - Glass Removal

6. Log Removal/Replacement

If removal of the logs becomes necessary, remove the three loose logs first. Remove three screws, two on each end of the grate burner assembly and one on the back foot of the far right grate bar. Lift the grate burner assembly up until the right side clears the hearth refractory. While still lifting, swing the right end towards you until the opposite end of the assembly clears the hearth. Replacement is done in reverse order. Be sure to reattach three screws.

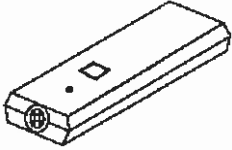
To remove the back log, remove the five screws (two on each end, one in the front center) holding the log bracket. Lift the log and bracket out of the appliance. Installation is in reverse order.

To remove the hearth logs, remove four screws (two in each log) and lift out. Installation is in reverse order.



Figure 66 - Three Screws-Grate/Burner Assy.

N. OPTIONAL COMPONENTS



RC-SMART-HTL
Remote Control

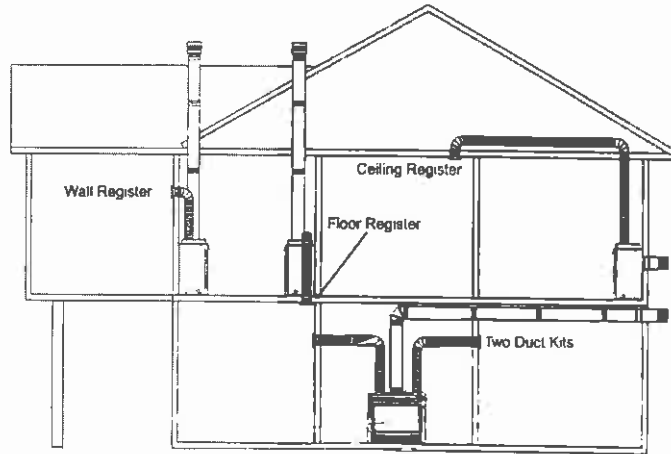
RC-BATT-HTL
Battery-operated Remote
Control (Standing Pilot)

RCT-MLT-HTL
Multi-Function
Remote Control

SMART-STAT-HTL
Remote Control with
Thermostat Control

SMART-BATT-HTL
Battery-operated Remote
Control with Thermostat
Control

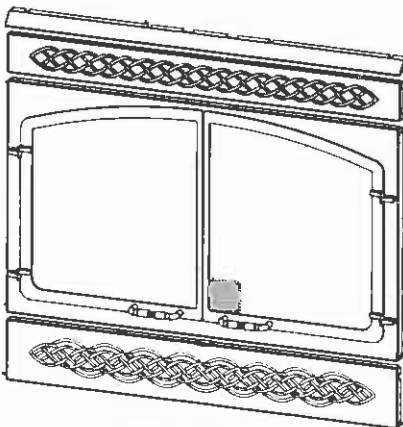
HTZ-2000 Heat Transfer System
Possible Air Duct Runs/Locations



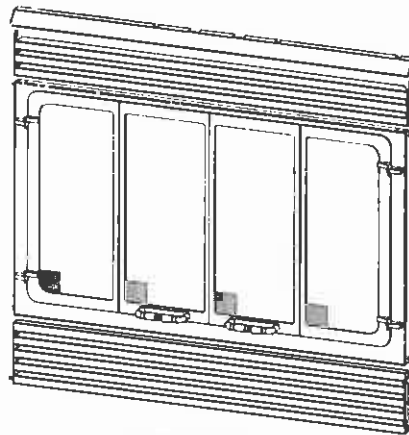
HTZ-2000
Heat Transfer System (Fan with cover and 20' flex)



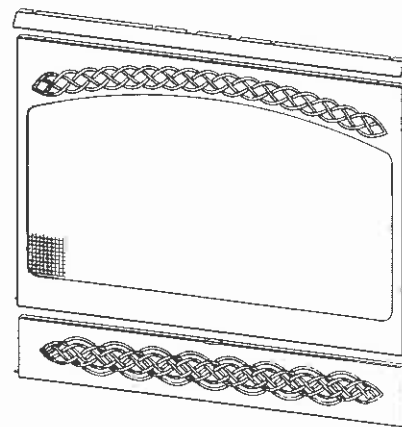
WSK-MLT-HTL
Multi-Function Wall Switch



NXT-AMD 70/90

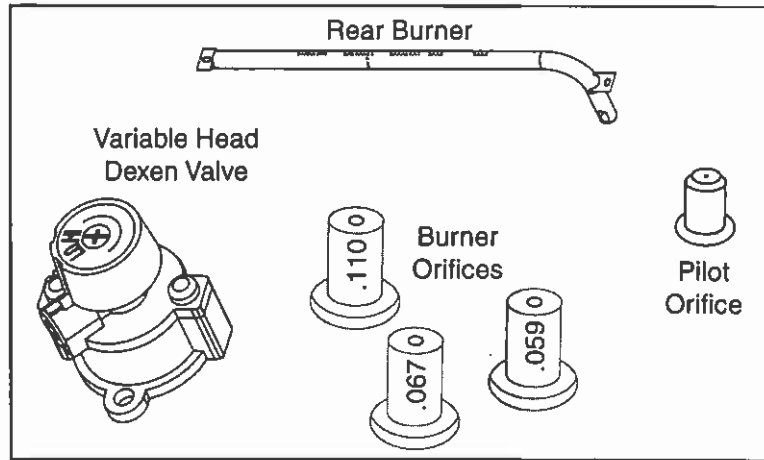


NXT-BFMD 70/90

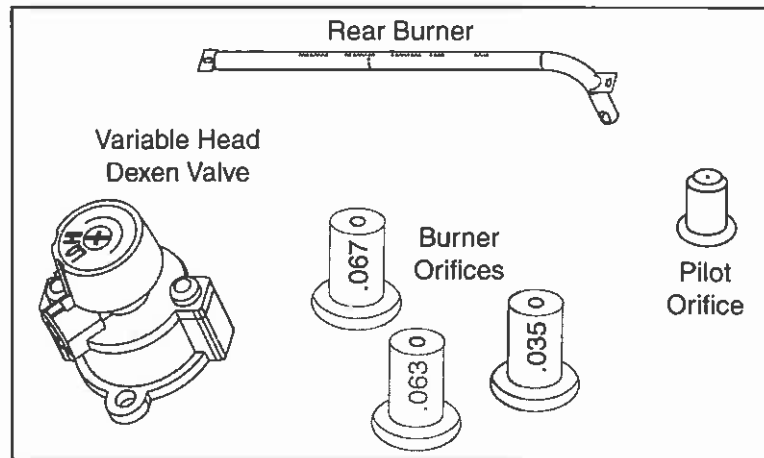


FF-NXT 70/90 BS
FF-NXT 70/90 PWT
FF-NXT 70/90 AC

OPTIONAL COMPONENTS (con't)



DCKVNNXT
Conversion Kit
Propane to Natural Gas
(IPI)



DCKVPNXT
Conversion Kit
Natural to Propane Gas
(IPI)