# INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL



**LOG SET FOR UNVENTED VFP(32,36)BP FIREPLACE**

**MODELS**

**LS-24-1 EF**

**LS-30-1 EF**

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED www.nficertified.org

We suggest that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

**WARNING: If the information in these instructions are not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.**

— **Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.**

— **WHAT TO DO IF YOU SMELL GAS**

- **Do not try to light any appliance.**
- **Do not touch any electrical switch; do not use any phone in your building.**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier, call the fire department.**

— **Installation and service must be performed by a qualified installer, service agency or the gas supplier.**

**Installer: Leave this manual with the appliance.**

**Consumer: Retain this manual for future reference.**

**Log sets comply with ANSI Z21.11.2 Unvented Heaters. State or local codes may only allow operation of log sets in a vented configuration. Check your state or local codes.**

**WARNING: If not installed, operated and maintained in accordance with the manufacturer's instructions, this product could expose you to substances in fuel or from fuel combustion which can cause death or serious illness.**

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# IMPORTANT INSTALLATION GUIDELINES

**Proper Log Placement**

Log placement is critical to proper burner performance. Logs must be correctly positioned onto the burner. The photos in this manual show the proper pinned position for logs on this set. Owners need to be shown proper log placement and instructed not to move the logs.

Logs must fit firmly onto the burner when positioned as shown in the photos. Malformed logs or logs with sloppy pin holes must be replaced.

**Proper Placement of Rock Wool and Decorative Lava Rock**

Rock wool can be added to burners for a glowing ember effect. It must be positioned only on the front portion of the burner. The photos in this manual show the proper placement of rock wool.

Decorative lava rock or small wood pieces should never be placed on the burner. These items are only for placement on the floor of the fireplace or firebox.

**Proper Primary Airflow into Burner**

For proper burner operation and flame appearance, the flow of primary air into the venturi tube, located on the rear of the burner, must not be reduced. This flow of air is reduced if dirt, lint or other obstructions build-up around or inside the venturi. Any obstruction in the venturi tube area must be removed. The flow of air into the venturi is also reduced if the gas orifice isn't centered in the venturi inlet and/or is not aligned with the venturi. Any misalignment of the burner orifice may be corrected by bending the shutter cap holding the orifice to the inlet of the venturi tube.

**Ceiling Fans, Portable Fans or Logs Installed Near Cold Air Returns**

Ceiling fans or oscillating floor type fans need to be monitored during the operation of vent-free logs. If the air blows directly into the flame causing it to impinge on the log set, or firebox, it should be turned off or redirected. Ceiling fans could be reversed to possibly eliminate flame impingement, and the floor fan could be redirected. Upon installation, be aware of any cold air returns or vents in the proximity of the log set. Any draft created around a vent-free log set can cause the flame to impinge on the log and create a sooting situation.

**WARNING:** Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns.

**WARNING:** Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater.

**Candles**

Avoid the use of scented or decorative candles while the fireplace is in operation. Candles produce a residue in the air that creates a soot like substance. Burning candles while the fireplace is operating magnifies the problem. It should be noted that candles, in general, produce soot. The amount of time burned and the quantity of candles burned will determine the amount of soot produced and deposited.

**Make Owners Aware of Proper Log Set Operation**

Properly installed and properly maintained log sets do not deposit soot on the logs. If users see soot appear on a log, call for service. Do not continue to operate the log set.

# GENERAL INFORMATION

**Qualified Installing Agency**

Installation and replacement of gas piping, gas utilization equipment or accessories and repair and servicing of equipment shall be performed only by a qualified agency. The term "qualified agency" means any individual, firm, corporation, or company that either in person or through a representative is engaged in and is responsible for (a) the installation, testing, or replacement of gas piping or (b) the connection, installation, testing, repair, or servicing of equipment; that is experienced in such work; that is familiar with all precautions required, and that has complied with all the requirements of the authority having jurisdiction.

The installation must conform with local codes or, in the absence of local codes, with the *National Fuel Gas Code, ANSI Z223.1/NFPA54.**

**Available from the American National Standards Institute, Inc. 11 West 42nd St., New York, N.Y. 10018.*

**State of Massachusetts:** The installation must be made by a licensed plumber or gas fitter in the Commonwealth of Massachusetts.

Sellers of unvented propane or natural gas-fired supplemental room heaters shall provide to each purchaser a copy of 527 CMR 30 upon sale of the unit.

In the State of Massachusetts, unvented propane and natural gas-fired space heaters shall be prohibited in bedrooms and bathrooms.

# LS-(24,30)-1 EF LOG PLACEMENT

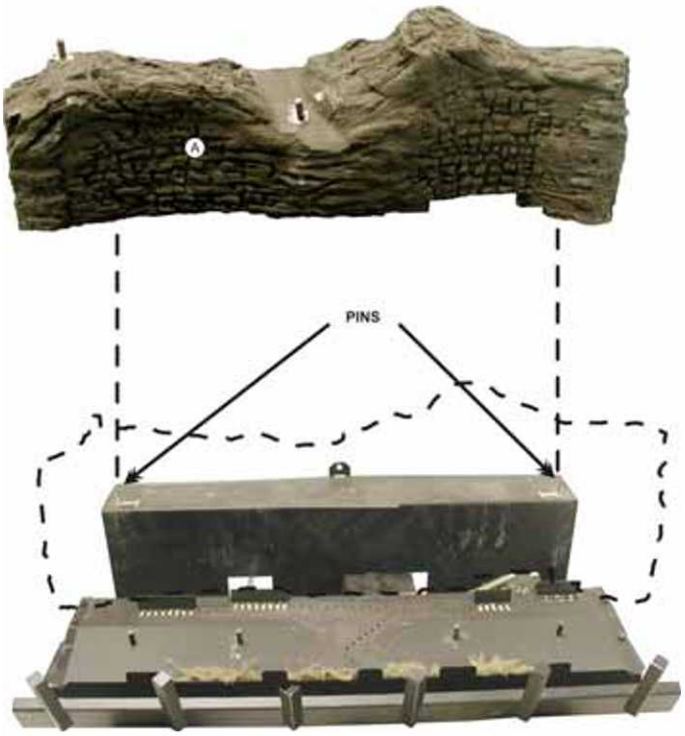
Before you begin: Do not, handle these logs with your bare hands! Always wear gloves to prevent skin irritation. After handling logs, wash your hands gently with soap and water.

**All Logs**
The positioning of the logs is critical to the safe and clean operation of this heater. Sooting and other problems may result if the logs are not properly and firmly positioned in the appliance.

**Warning:** Failure to position the parts in accordance with this diagram or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

**PROPER INSTALLATION SEQUENCE:**
**VFP(32.36)FP**

1. Place Rear Log (A) onto two (2) pins on rear log support.



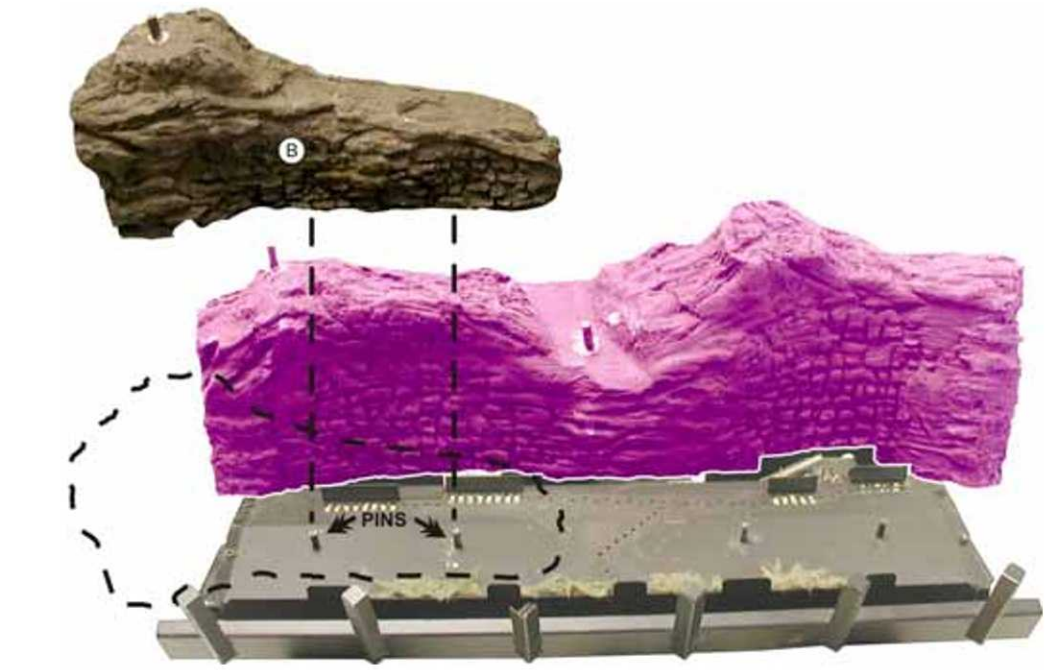

**FRONT VIEW**



**TOP VIEW**

# LS-(24,30)-1 EF LOG PLACEMENT

2. Place Left Front Log (B) onto two (2) left, front pins on burner pan.



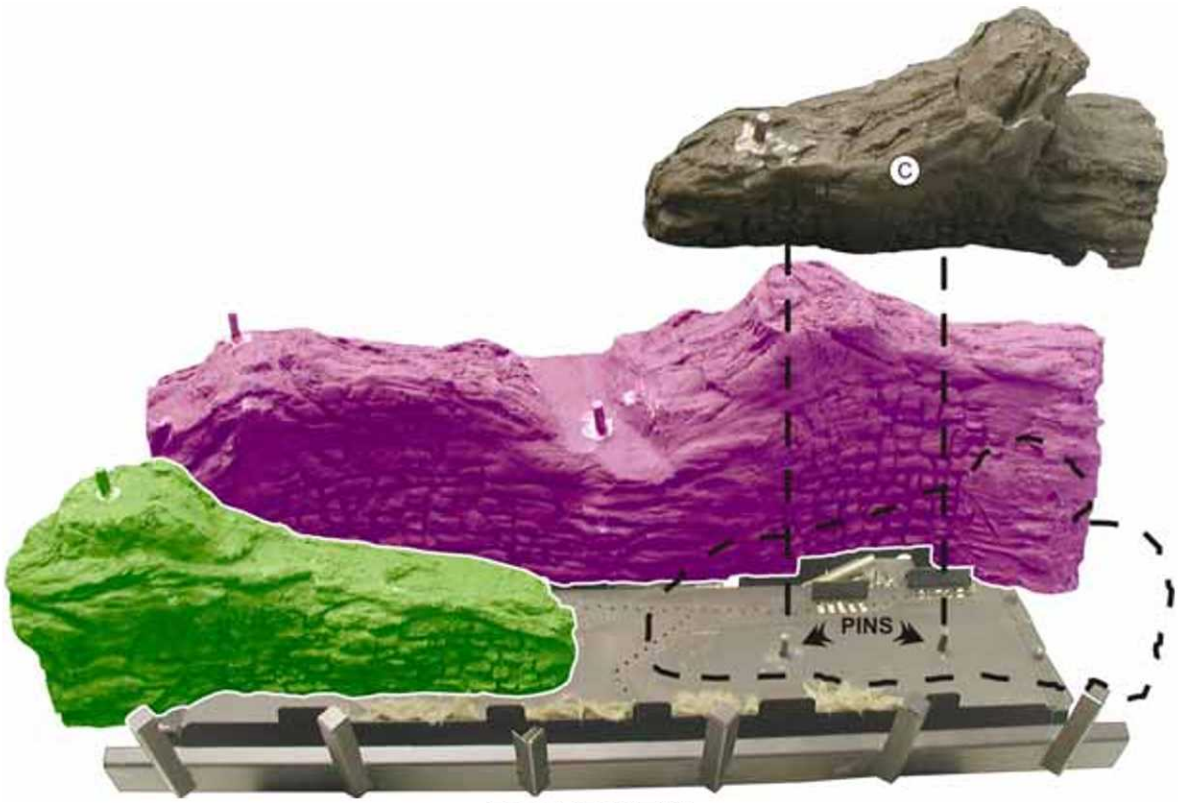

**FRONT VIEW**



**TOP VIEW**

# LS-(24,30)-1 EF LOG PLACEMENT

3. Place Right Front Log (C) onto two (2) right, front pins on burner pan.



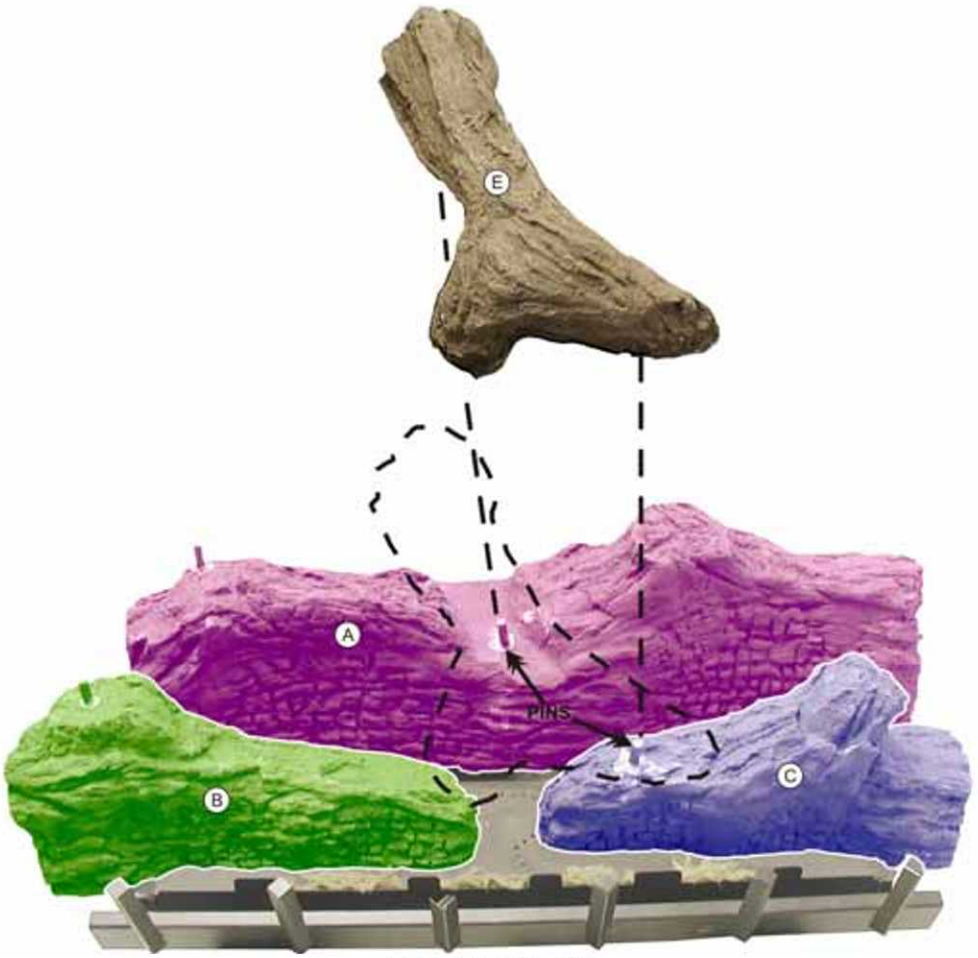

**FRONT VIEW**



**TOP VIEW**

# LS-(24,30)-1 EF LOG PLACEMENT

4. Place "Y" Branch (E) onto pins on Rear Log (A) and Right Front Log (C).




**FRONT VIEW**



**TOP VIEW**

# LS-(24,30)-1 EF LOG PLACEMENT

5. Place Left Top Branch (D) onto pins on Rear Log (A) and Left Front Log (B).




**FRONT VIEW**



**TOP VIEW**

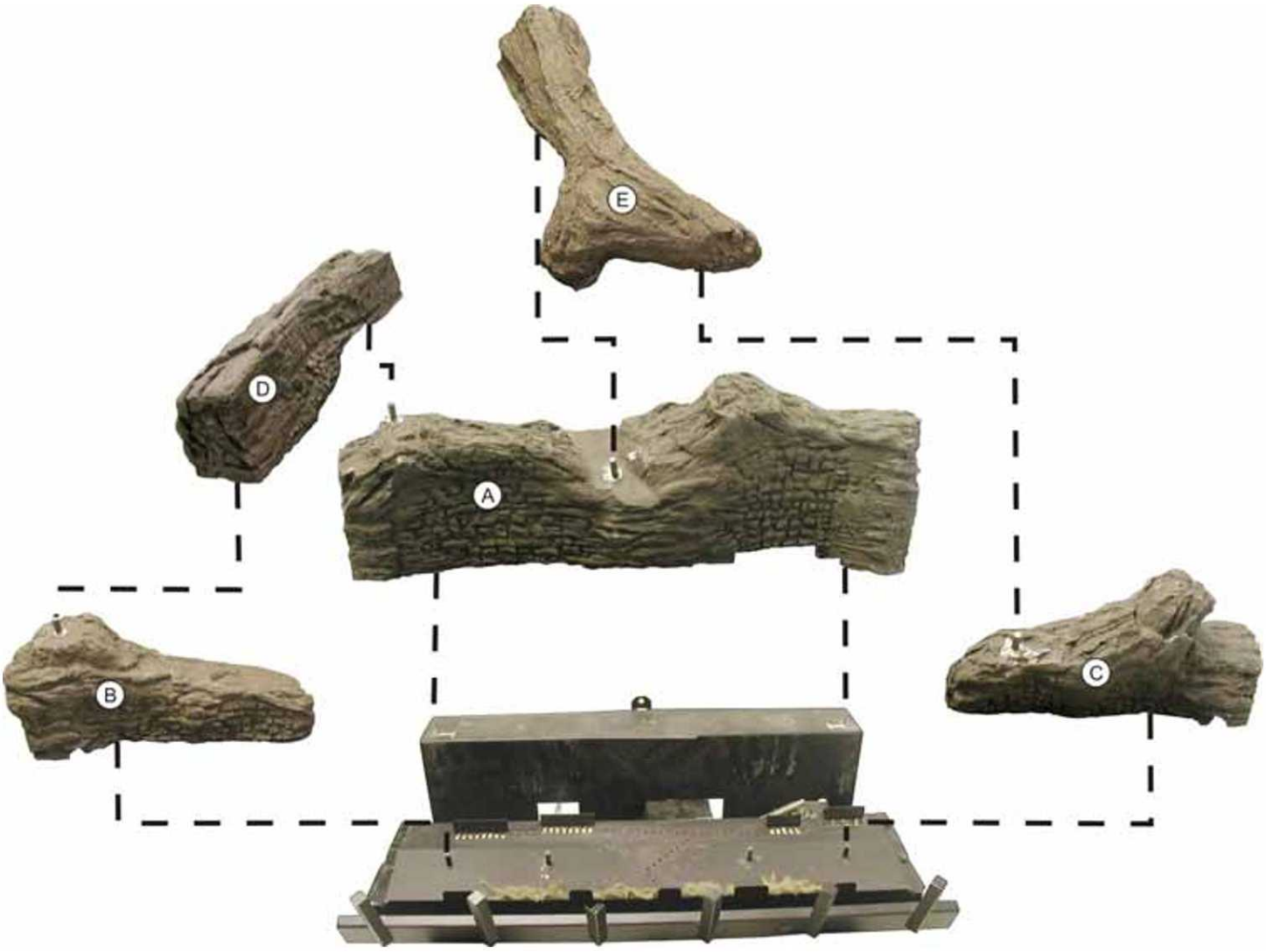
# LS-(24,30)-1 EF LOG PLACEMENT

6. Compare the completed log installation with the appropriate photo from pages 4 through 8. Review previous steps to make any necessary adjustments.
7. Log placement is completed.

**Attention:** Do not use Figure 1 to order replacement logs. Refer to Page 10 Parts List and Parts View to order logs for your appropriate model number.

The following WARNING applies when log set is installed onto an unvented gas burner assembly.

**WARNING: This appliance is equipped for (natural or propane) gas. Field conversion is not permitted.**




**Log Placement**
**VFP(32,36)FP**
**Figure 1**

# PARTS LIST & PARTS VIEW

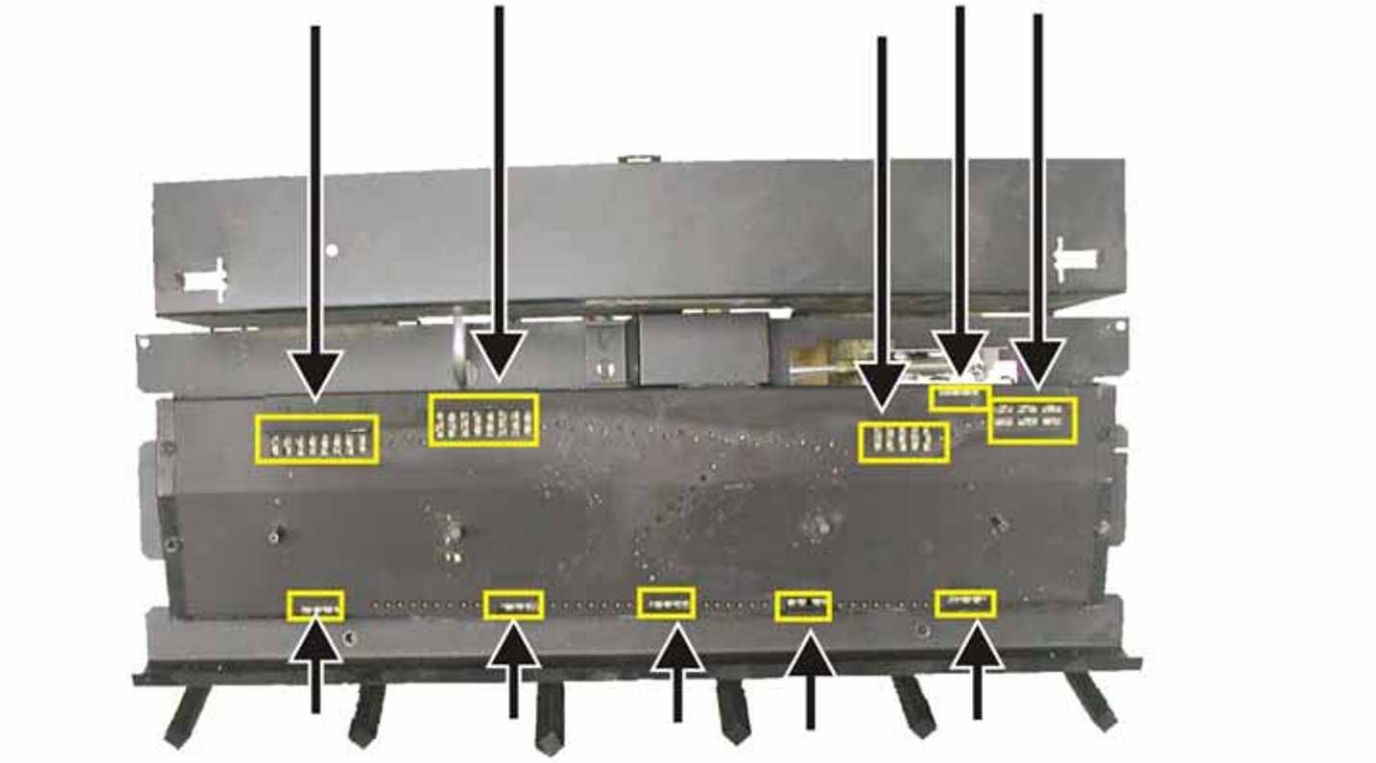
**Attention:** When ordering parts, it is very important that **part number** and **description** of part coincide.

| INDEX NO. | TOP VIEW | FRONT VIEW |
|---|---|---|
| A |  |  |
| B |  |  |
| C |  |  |
| D |  |  |
| E |  |  |

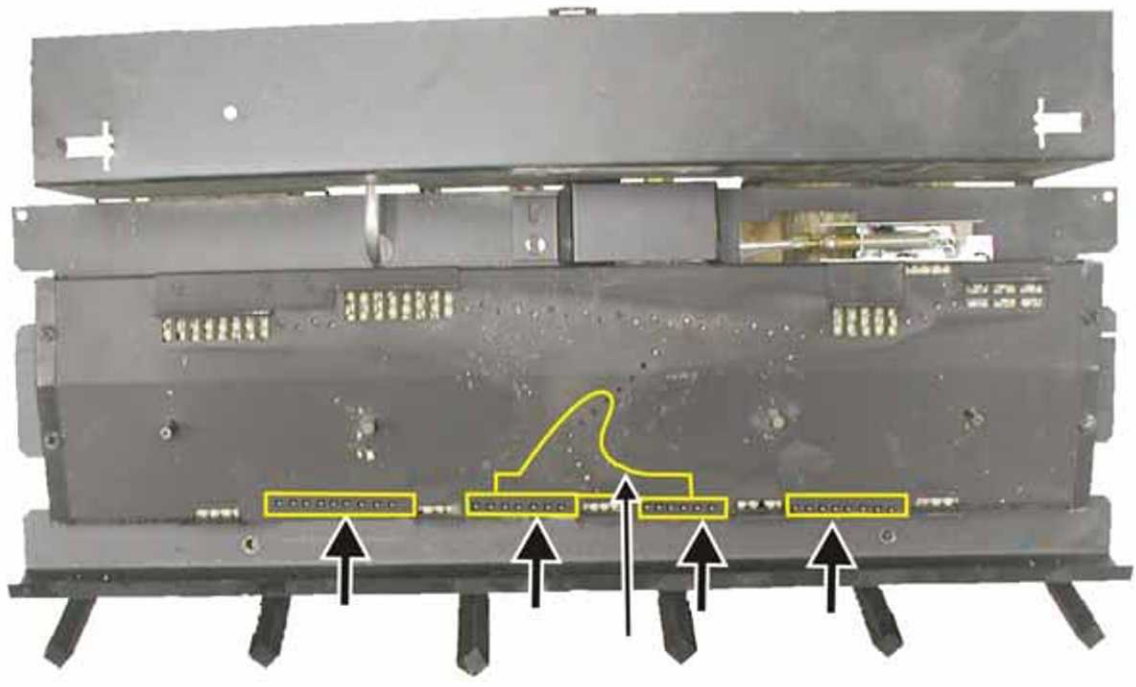
| INDEX NO. | PART NO. | | DESCRIPTION |
|---|---|---|---|
| | 32" Logset | 36" Logset | |
| A | 27641 | 27647 | Rear Log |
| B | 27639 | 27645 | Left Front Log |
| C | 27640 | 27646 | Right Front Log |
| D | 27642 | 27648 | Left Top Branch |
| E | 27643 | 27649 | Y Branch |

# PLACEMENT OF GLOWING EMBERS

Do not cover any large rear ports with glowing embers.



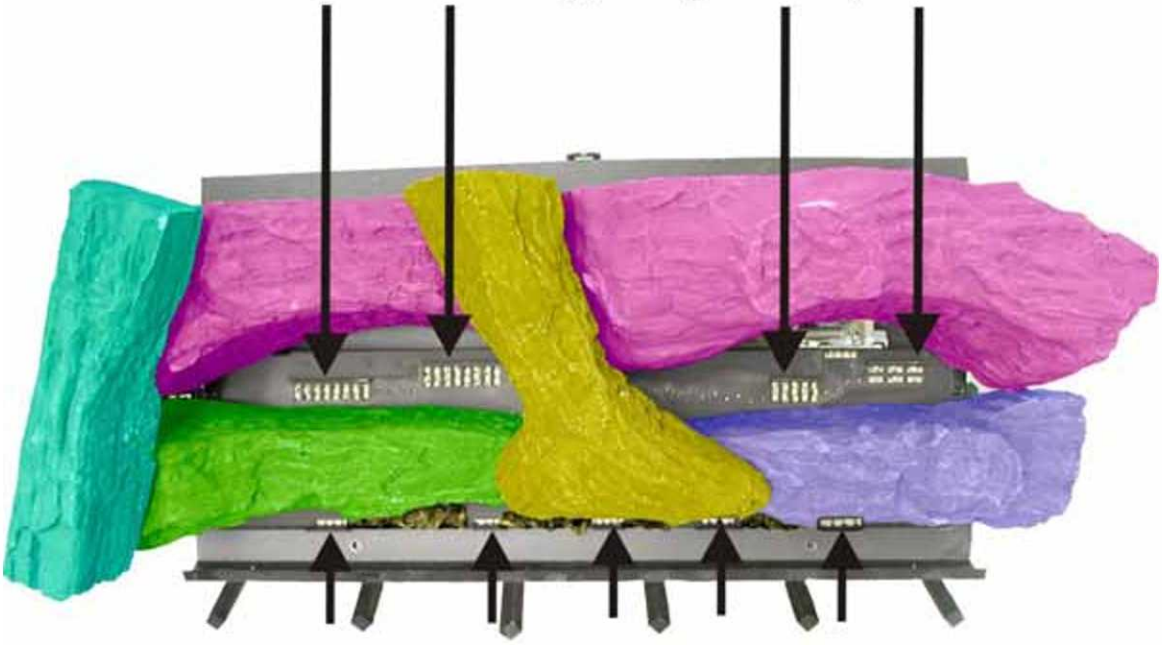
Do not cover any large front ports with glowing embers.



Area for glowing embers.

# LS-(24,30)-1 EF PLACEMENT OF GLOWING EMBERS

Do not cover any large rear ports with loose material(glowing embers).



Do not cover any large front ports with loose material(glowing embers).



# PLACEMENT OF GLOWING EMBERS

Replacement glowing embers must be purchased from Empire Comfort Systems, Inc. Application of excess glowing embers may adversely affect performance of the heater, possibly causing soot.

WARNING: All previously applied glowing embers must be removed prior to reapplication of new embers.

**Replacement glowing embers Part Number**

| | |
|---|---|
| VFP(32,36)FP | 15970 |
| Platinum Bright Embers | PE-20-1 |

**Note:** A single layer of glowing embers is to be used when applying Platinum Bright Embers (alone or in combination with production embers) to the burner.

Separate the ember material by hand and make the coverage as light and fluffy as possible.

Place just enough embers on the burner to obtain the glow and a gold, yellow flame.

Do not place glowing embers over large ports in front or rear portion of burner.

Glowing embers should not be placed in the area of the pilot assembly.

# MASTER PARTS DISTRIBUTOR LIST

To Order Parts Under Warranty, please contact your local Empire dealer. See the dealer locator at www.empirecomfort.com. To provide warranty service, your dealer will need your name and address, purchase date and serial number, and the nature of the problem with the unit.

To Order Parts After the Warranty Period, please contact your dealer or one of the Master Parts Distributors listed below. This list changes from time to time. For the current list, please click on the Master Parts button at www.empirecomfort.com.

Please note: Master Parts Distributors are independent businesses that stock the most commonly ordered Original Equipment repair parts for Heaters, Grills, and Fireplaces manufactured by Empire Comfort Systems Inc.

**Dey Distributing**
1401 Willow Lake Boulevard
Vadnais Heights, MN 55101

**Phone:** 651-490-9191
**Toll Free:** 800-397-1339
**Website:** www.deydistributing.com
**Parts: Heater & Hearth**

**East Coast Energy Products**
10 East Route 36
West Long Branch, NJ 07764

**Phone:** 732-870-8809
**Toll Free:** 800-755-8809
**Fax:** 732-870-8811
**Website:** www.eastcoastenergy.com
**Parts: Heater & Hearth and Grills**

**Victor Division of F. W. Webb Company**
200 Locust Street
Hartford, CT 06114

**Phone:** 860-722-2433
**Toll Free:** 800-243-9360
**Fax:** 860-293-0479
**Toll Free Fax:** 800-274-2004
**Websites:** www.fwwebb.com & www.victormfg.com
**Parts: Heater & Hearth and Grills**

# HOW TO ORDER REPAIR PARTS

**Parts Not Under Warranty**

Parts can be ordered through your Service Person, Dealer, or a Master Parts Distributor. See this page for the Master Parts Distributors list. For best results, the **service person or dealer** should order parts through the distributor. Parts can be shipped directly to the **service person/dealer**.

**Warranty Parts**

Warranty parts will need a proof of purchase and can be ordered by your Service Person or Dealer. Proof of purchase is **required** for warranty parts.

All parts listed in the Parts List have a Part Number. When ordering parts, first obtain the Model Number and Serial Number from the name plate on your equipment. Then determine the Part Number (**not** the Index Number) and the Description of each part from the following illustration and part list. Be sure to give all this information . . .

Appliance Model Number _____ Part Description _____

Appliance Serial Number _____ Part Number _____

Type of Gas (Propane or Natural) _____

Do not order bolts, screws, washers or nuts. They are standard hardware items and can be purchased at any local hardware store.

Shipments contingent upon strikes, fires and all causes beyond our control.

# APPLIANCE SERVICE HISTORY

| Date | Dealer Name | Service Technician Name | Service Performed/Notes |
|---|---|---|---|
| | | | |
| | | | |
| | | | |




Empire Comfort Systems Inc.
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If you have a general question about our products, please e-mail us at info@empirecomfort.com.
If you have a service or repair question, please contact your dealer.

**www.empirecomfort.com**