EMPIRE
COMFORT SYSTEMS
SINCE 1932

INSTALLATION INSTRUCTIONS AND OWNER'S MANUAL

SUPER STACKED WILDWOOD



LS24WRS Shown

INSTALLER:

Leave this manual with the appliance.

CONSUMER:

Retain this manual for future reference.

⚠ WARNING

FIRE OR EXPLOSION HAZARD
If the information in these instructions is 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.**
  - **Leave the building immediately.**
  - **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.**

LOG SET FOR UNVENTED GAS LOG HEATER OR VENTED DECORATIVE APPLIANCE

MODELS

LS18WRS-1 | LS24WRS-1 | LS30WRS-1

CSA CERTIFIED · DESIGN CERTIFIED · GAS-FIRED C UL US LISTED

⚠ 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.

Log sets comply with ANSI Z21.11.2 Unvented Heaters and also comply with ANSI Z21.60 Decorative Vented Appliances for Solid Fuel Burning Fireplaces. State or local codes may only allow operation of log sets in a vented configuration. Check your state or local codes.

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.

Please See Our Website For Log Assembly Videos.

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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. Place on the front portion of the burner only. The photos in this manual show the proper placement of rock wool.

Never place decorative lava rock or small wood pieces on the burner. Place them on the floor of the fireplace or firebox only.

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. Air flow may be reduced if dirt, lint or other obstructions build-up around or inside the venturi. Any obstruction must be removed. Air flow into the venturi is also reduced if the gas orifice isn't centered in the venturi inlet or is not aligned with the venturi. Correct any misalignment of the burner orifice 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 fans need to be monitored during the operation of this vent-free burner. If air blows directly into the flame causing it to impinge on the log set, or firebox, turn off or redirect the fan. Ceiling fans may be reversed to eliminate flame impingement. Upon installation, be aware of any cold-air returns or vents in the proximity of the burner. Any draft created around a vent-free burner can cause flame impingement and create soot.

⚠ 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 log set is in operation. Candles produce a residue in the air that creates a soot-like substance. Burning candles while the burner is operating magnifies the problem. Candles in general produce soot. The amount of time burned and the quantity of candles will determine the amount of soot produced.

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 on a log, they should call for service. Do not continue to operate the log set.

Sunken Fireplace
If installing this unit into a sunken fireplace, raise the floor to ensure adequate airflow and guard against sooting. Raise fireplace floor using a non-combustible material, which is secure.

Glass Doors
Keep glass doors open during all operations of the logset. The opening of the glass door frame should be the dimension used for the minimum front opening of the firebox.

Wood-Burning Fireplaces
The interior of the firebox and the chimney must be cleaned and free of all creosote before installing a gas log set. Creosote will soften when heated and can drop onto the logset causing odors and soot.

⚠ WARNING

Before installing in a solid-fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner.

Initial Operation
Once the installation is complete and the logs and embers are in place, light the burner and operate it on high for a minimum of three continuous hours. This will burn off any foreign materials, such as dust or paint overspray, that might cause odors during normal operation. Open windows or doors as needed to allow odors and excess heat to escape.

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.*

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

REQUIREMENTS FOR CANADA

This unit **cannot** be installed in a UNVENTED application, this unit **can only** be installed as a VENTED application with these requirements.

IMPORTANT SAFETY INFORMATION

This unit complies with ANSI Z21.60and CGA 2.26 Decorative Gas Appliances For Installation In Solid Fuel Burning Fireplaces. Do not burn wood or solid fuels in a fireplace where a decorative gas log set is installed. This appliance is for installation only in a solid fuel burning fireplace, masonry fireplace or manufactured fireplace.

⚠ WARNING

Any modification to this gas log set can be dangerous. Improper installation or use of the gas log set can cause serious injury or death from fire, burns, explosion or carbon monoxide poisoning.

1. Please follow all local codes regarding installation, combustion and ventilation air or in the absence of local codes follow the National Fuel Gas Code ANSI Z223.1(U.S. installation), or CAN/CGA-B149, Installation Code (Canada installation).
2. Proper installation, burner location and log placement is important to achieve optimum look and performance of your gas log set. The logs have been designed for easy location and placement on the grate and must be followed for proper operation.
3. Do not operate the burner with glass doors in the closed position. A fireplace screen must be in place when the burner is burning. Adequate combustion air must be provided for proper venting. All flames should go up and out the top of the firebox into the flue vent. If any flames float or curl forward into the room do not operate appliance. Check for an open flue and adequate combustion air into the room. A damper clamp must be installed on the firebox damper to maintain an open flue vent condition. Refer to fireplace owners manual INSTALLING DAMPER CLAMP section.
4. Young children must be carefully supervised when they are in the same room as an operating vent-free burner. Do not place stockings, clothing or any flammable material above or near the fireplace.
5. Do not substitute or use materials other than those supplied for use with the log set.
6. Also refer to IMPORTANT SAFETY INFORMATION in the fireplace Owner's Manual.

WARNING; DO NOT OPERATE THIS GAS LOG SET WITH GLASS DOORS CLOSED

- Clothing or other flammable material should not be placed on or near the appliance.
- Do not place debris or other articles on the log set during operation.
- A window should be opened during the initial bake out period.
- 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 materials, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.
- **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.
- Never burn solid fuels in fireplace where a gas log set is installed.
- This unit complies with ANSI Z21.60 Decorative Vented Appliances for Solid Fuel Burning Fireplaces. State or local codes may only allow operation of this appliance in a vented configuration. Check your state or local codes.

LS(18,24,30)WRS - LOG SETS



LS18WRS - LOG SET



LS24WRS - LOG SET

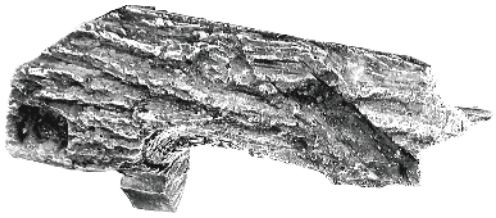
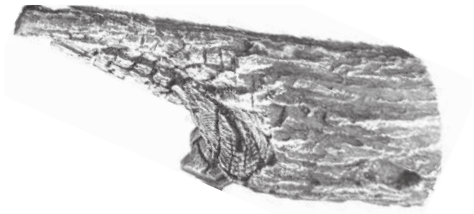
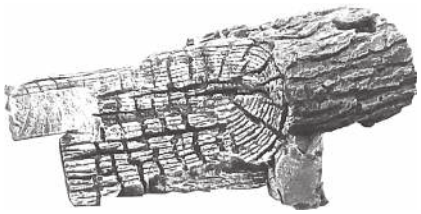
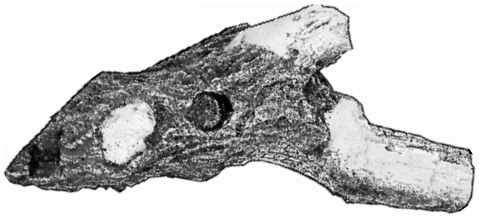
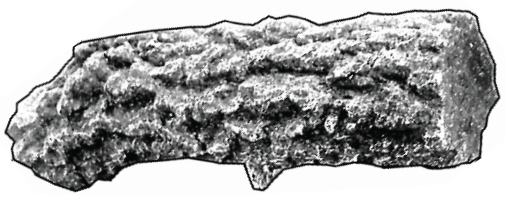
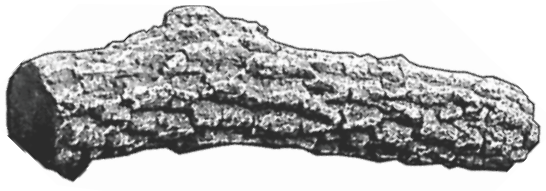
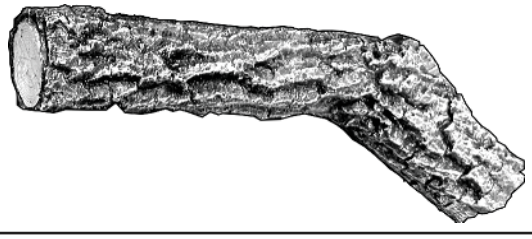


LS30WRS - LOG SET

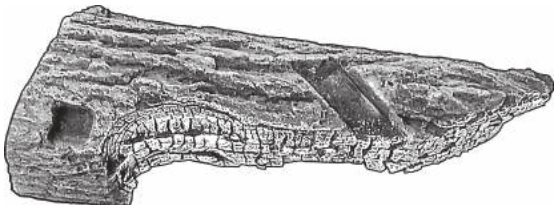
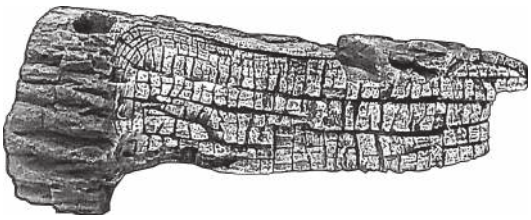
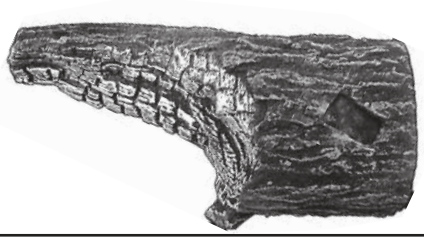
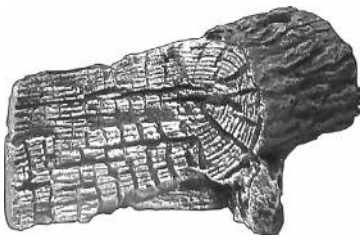
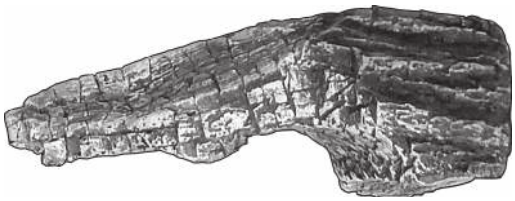
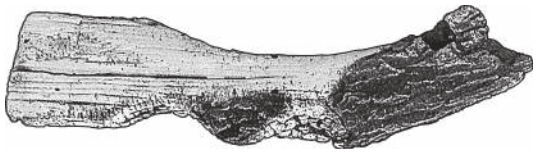
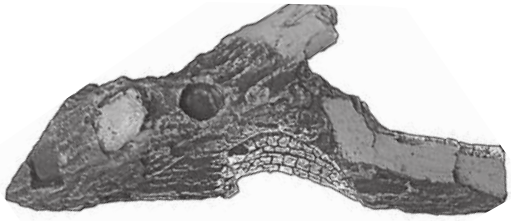
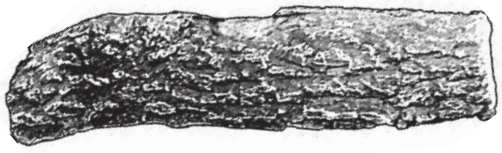
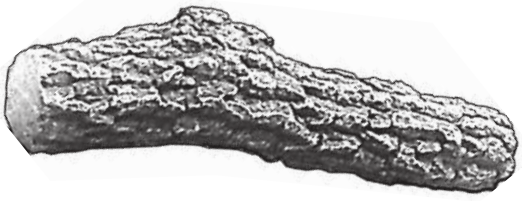
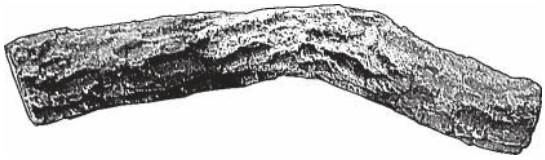
LOG IDENTIFICATION - LS18WRS

PART NUMBER & DESCRIPTION	TOP VIEW	FRONT VIEW
R12620 Rear Left (Log A)		
R12619 Rear Right (Log B)		
R12615 Front Right (Log C)		
R12616 Front Left (Log D)		
R12621 Center (Log E)		
R12622 Top Left (Log F)		
R12623 Top Right (Log G)		

LOG IDENTIFICATION - LS24WRS

PART NUMBER & DESCRIPTION	TOP VIEW	FRONT VIEW
R12480 Rear Left (Log A)		
R12479 Rear Right (Log B)		
R12477 Front Right (Log C)		
R12478 Front Left (Log D)		
R12481 Center (Log E)		
R12482 Top Left (Log F)		
R12483 Top Right (Log G)		

LOG IDENTIFICATION - LS30WRS

PART NUMBER & DESCRIPTION	TOP VIEW	FRONT VIEW
R12598 Rear Left (Log A)		
R12632 Rear Right (Log B)		
R12599 Front Right (Log C)		
R12600 Front Left (Log D)		
R12481 Center (Log E)		
R12482 Top Left (Log F)		
R12601 Top Right (Log G)		

LOG PLACEMENT - SUPER STACKED WILDWOOD

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.

Refer to Figure 1 for the following warning.

⚠ 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.

LS(18,24,30)WRS

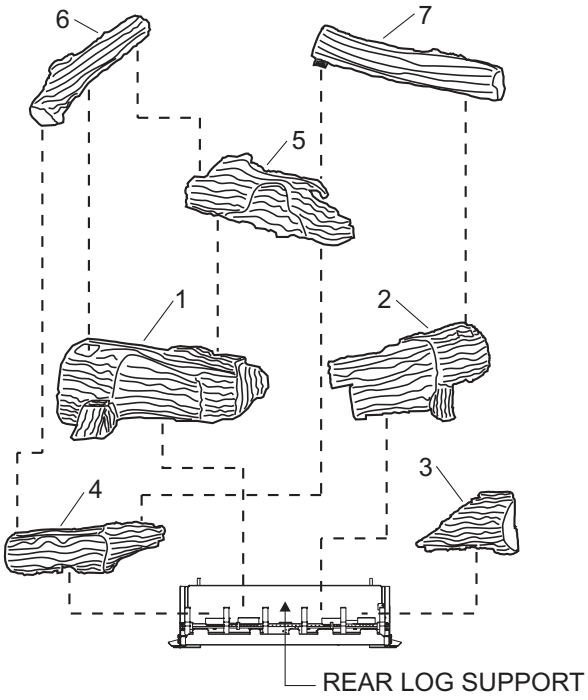


Figure 1

ATTENTION: Do not use **Figure 1** to order replacement logs. Refer to Log Identification LS18WRS on Page 6, or Log Identification LS24WRS on Page 7, or Log Identification LS30WRS on Page 8 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.

Apply glowing embers per the ember placement section of this manual on page 18. Replace glowing embers with appropriate part number from the table below from Empire Comfort Systems, Inc. Application of excess glowing embers may adversely affect performance of the heater.

⚠ WARNING

All previously applied loose material must be removed prior to reapplication.

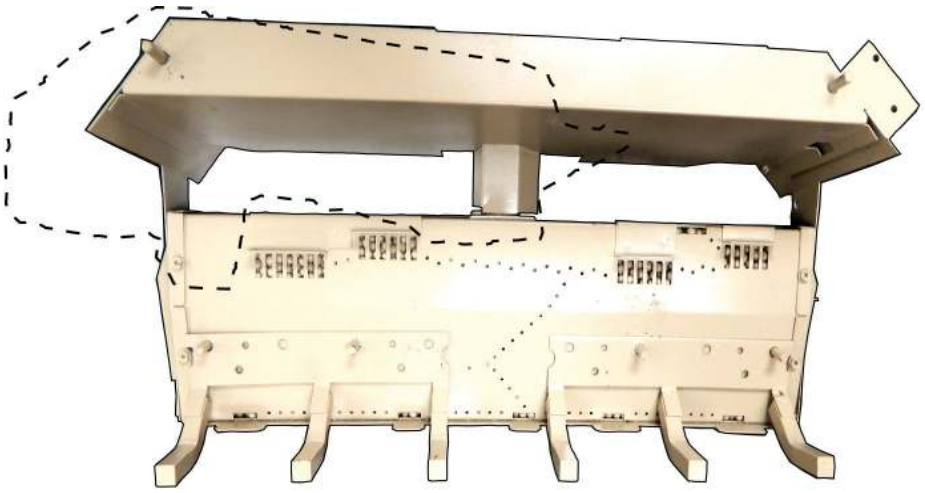
Replacement Loose Material (Glowing Embers)	Part Number
LS18WRS	15999
LS24WRS	15970
LS30WRS	15970
Platinum Bright Embers	PE20-1

NOTE: A single layer of embers is to be used when applying Platinum Bright Embers (alone or in combination with production embers) to the burner. As you add platinum embers, remove a like amount of standard embers. The total amount of embers must not exceed the amount provided with the burner. Tear the embers into dime-size pieces and pull them open to reveal as much surface area as possible.

Please See Our Website For Log Assembly Videos.

LOG PLACEMENT - SUPER STACKED WILDWOOD

1. Place left rear **Log (A)** onto left rear pin on rear log support.



TOP VIEW

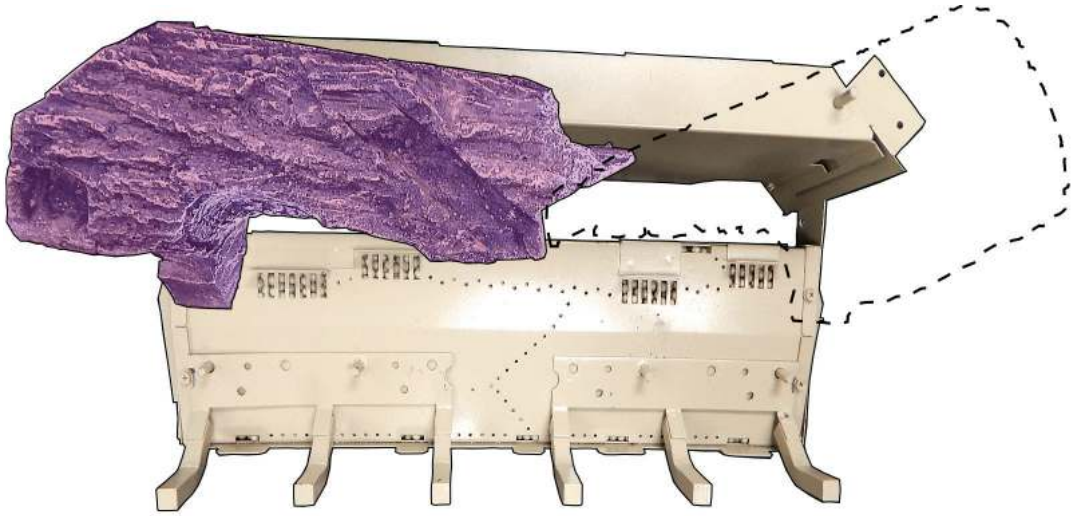
LS30WRS LOG SET ONLY: Tuck the "L" shaped knob on the bottom of the log behind the burner to lock the log into place. (See circled area in photo.)



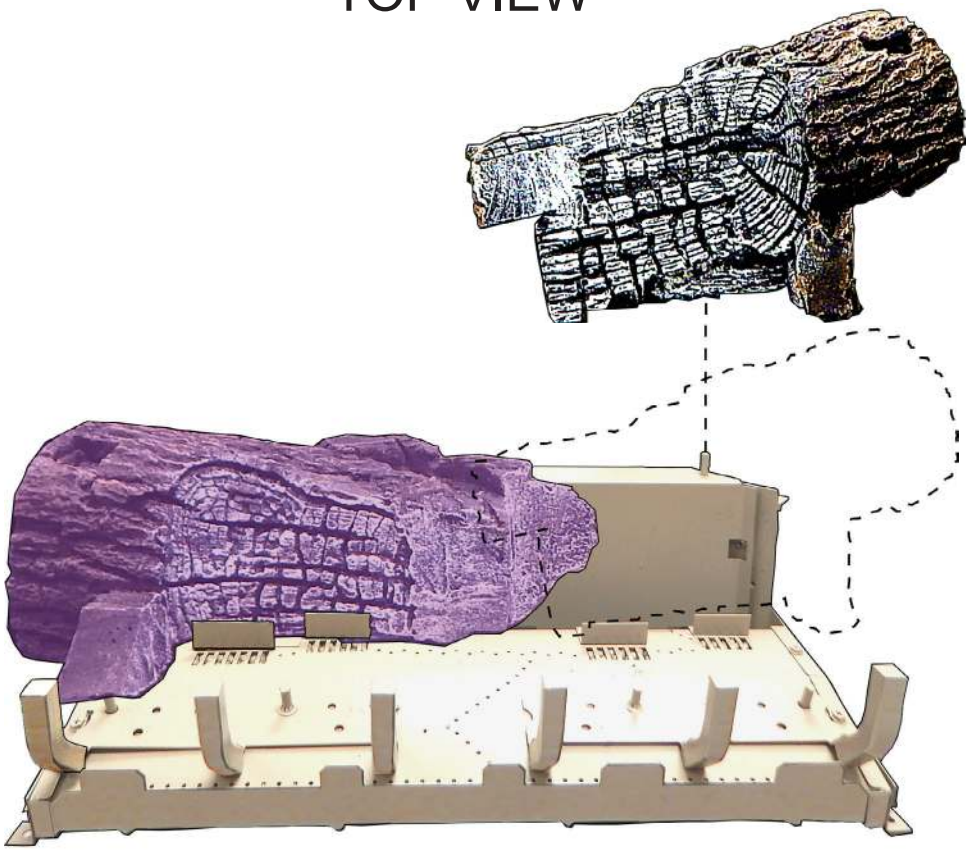
FRONT VIEW

LOG PLACEMENT - SUPER STACKED WILDWOOD

2. Place right rear **Log (B)** onto right rear pin on rear log support.



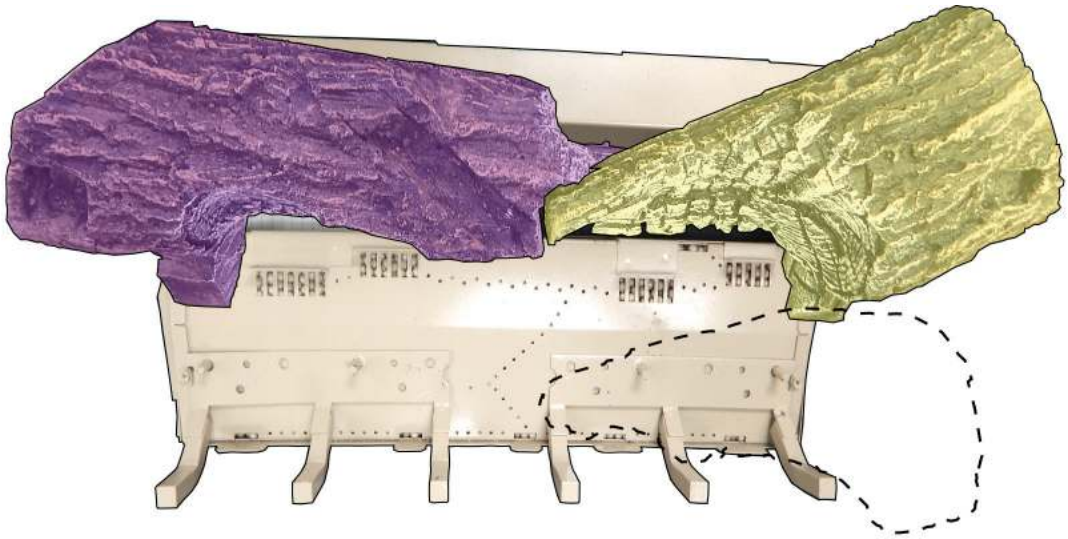
TOP VIEW



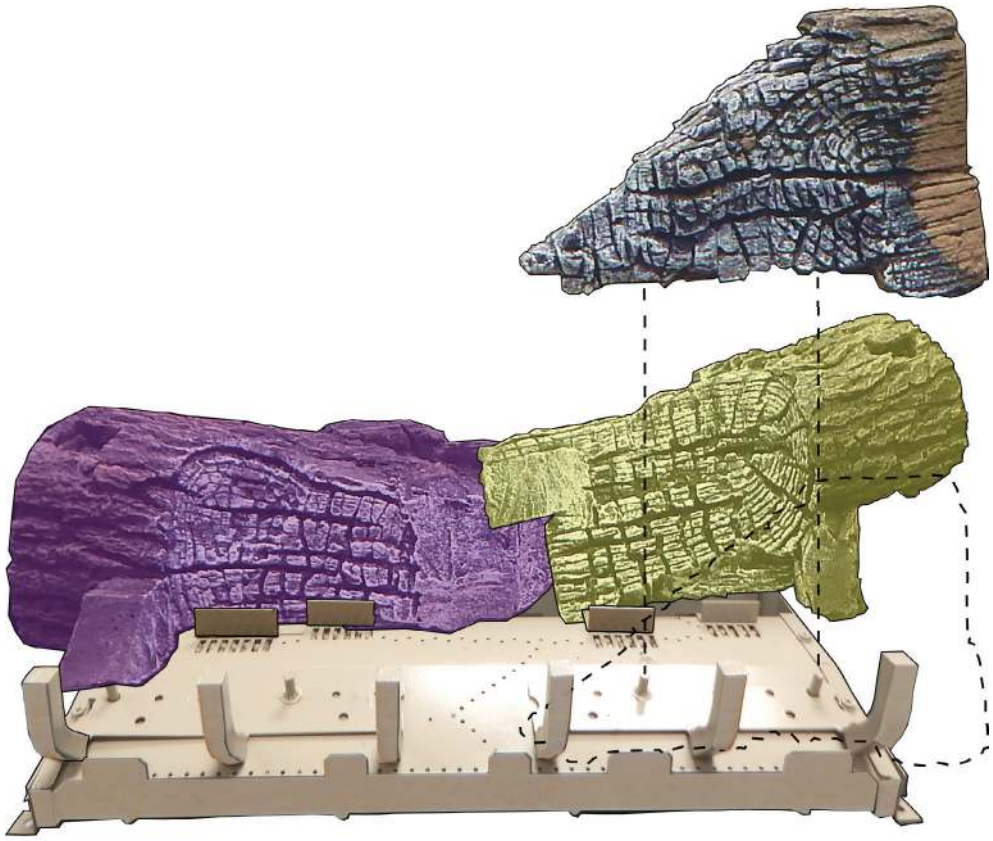
FRONT VIEW

LOG PLACEMENT - SUPER STACKED WILDWOOD

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



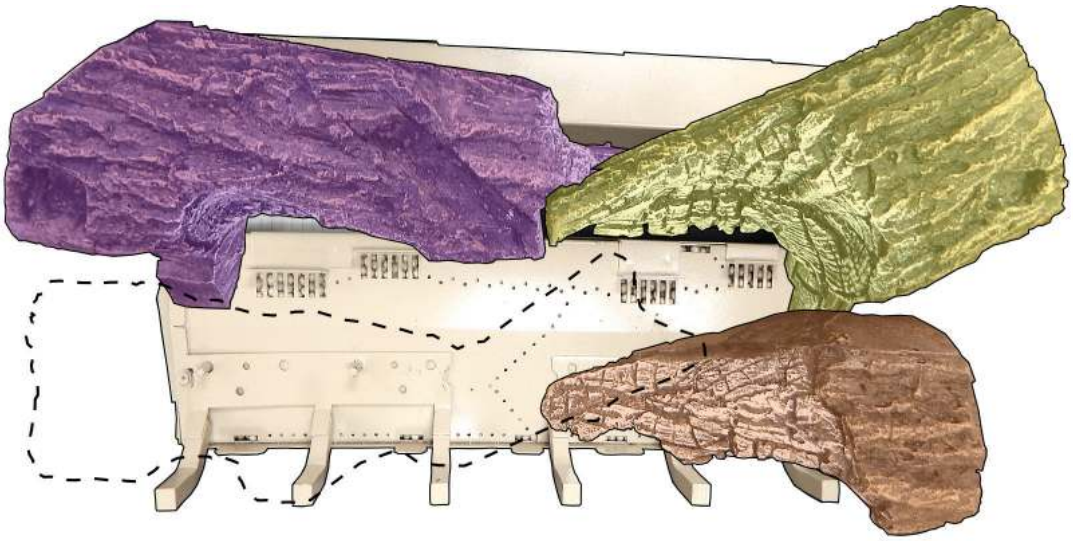
TOP VIEW



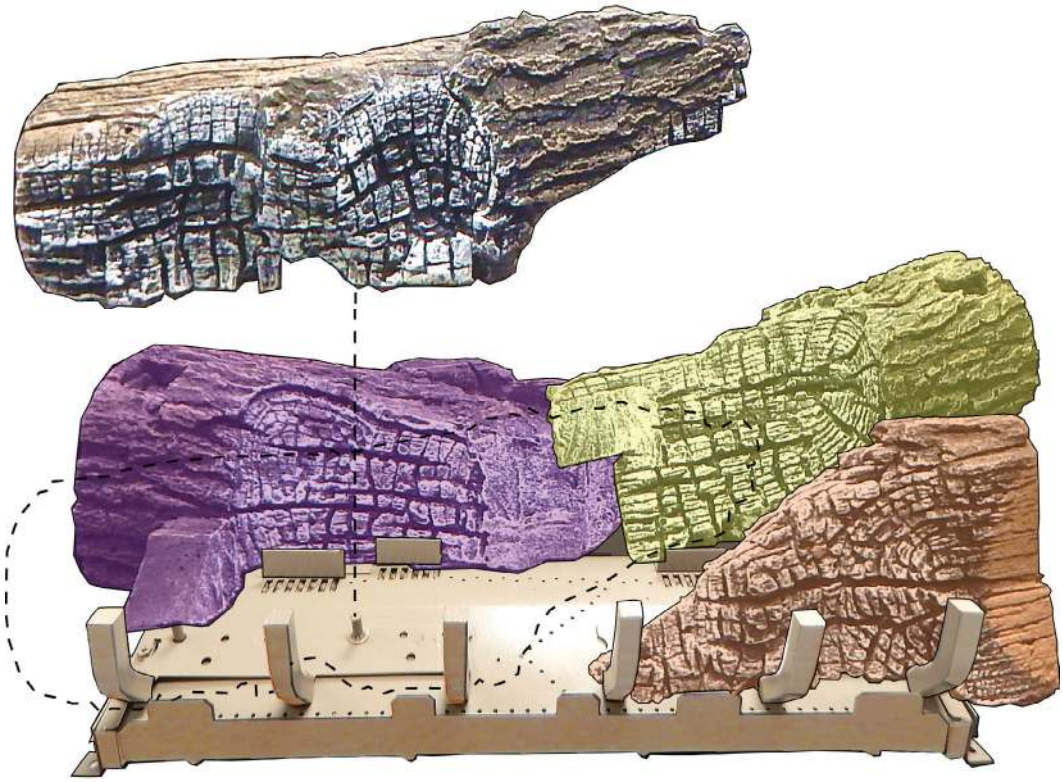
FRONT VIEW

LOG PLACEMENT - SUPER STACKED WILDWOOD

4. Place left front **Log (D**) onto two (2) left front pins on burner pan.



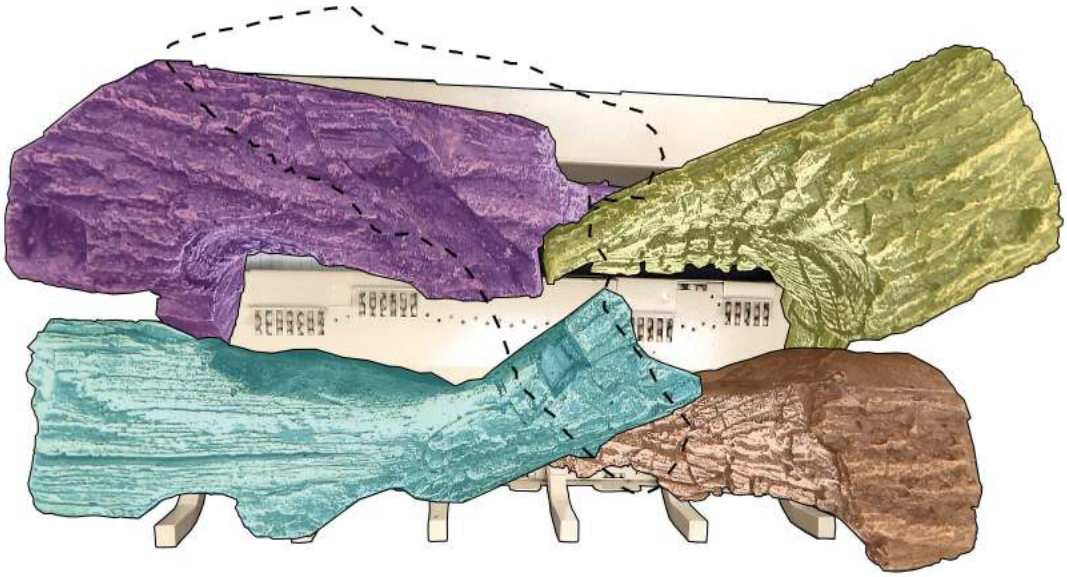
TOP VIEW



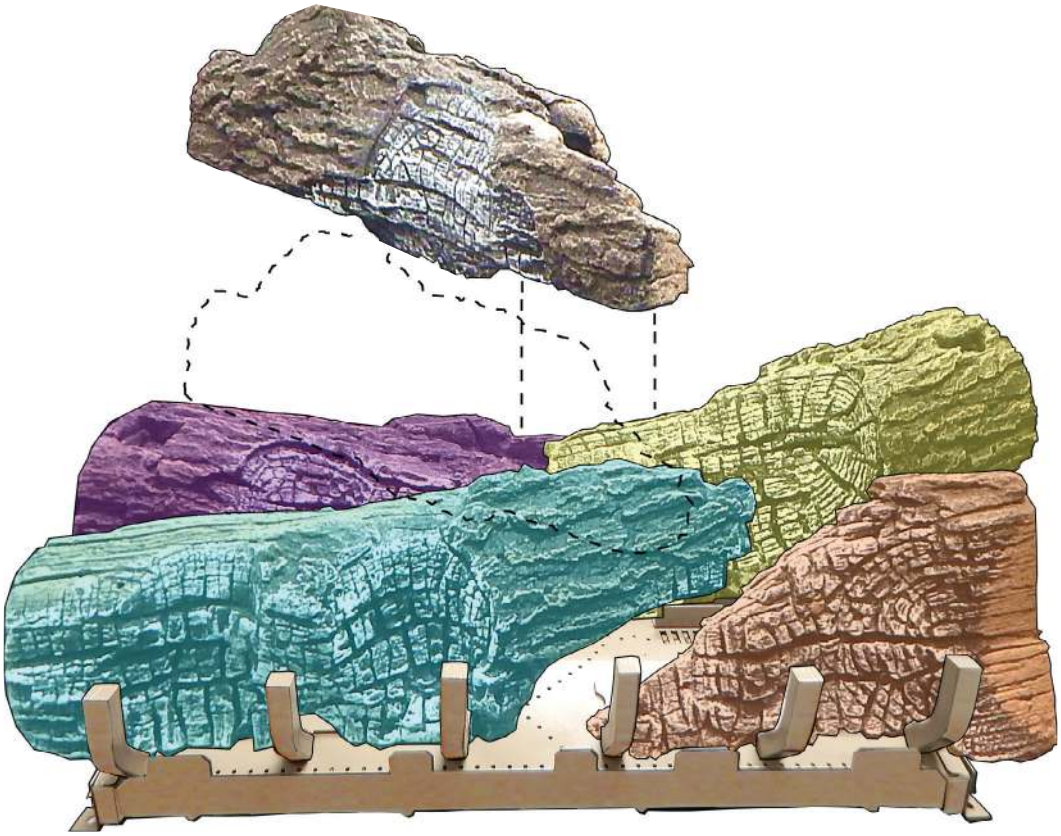
FRONT VIEW

LOG PLACEMENT - SUPER STACKED WILDWOOD

5. Insert boss on center **Log (E)** into recess on right side of left rear **Log (A)** and on right side of left front **Log (D)**.



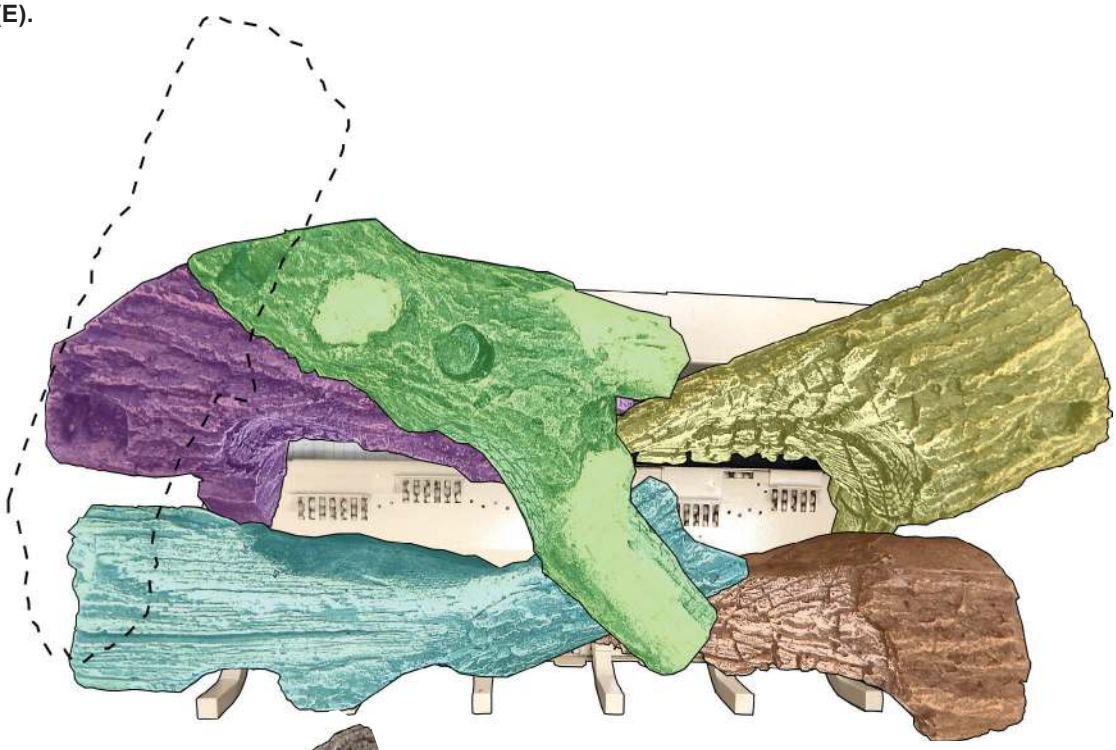
TOP VIEW



FRONT VIEW

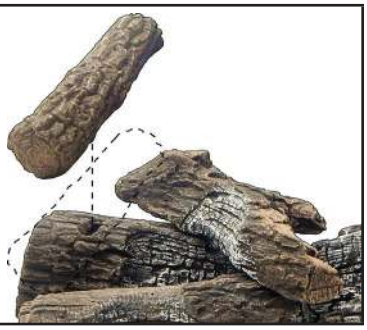
LOG PLACEMENT - SUPER STACKED WILDWOOD

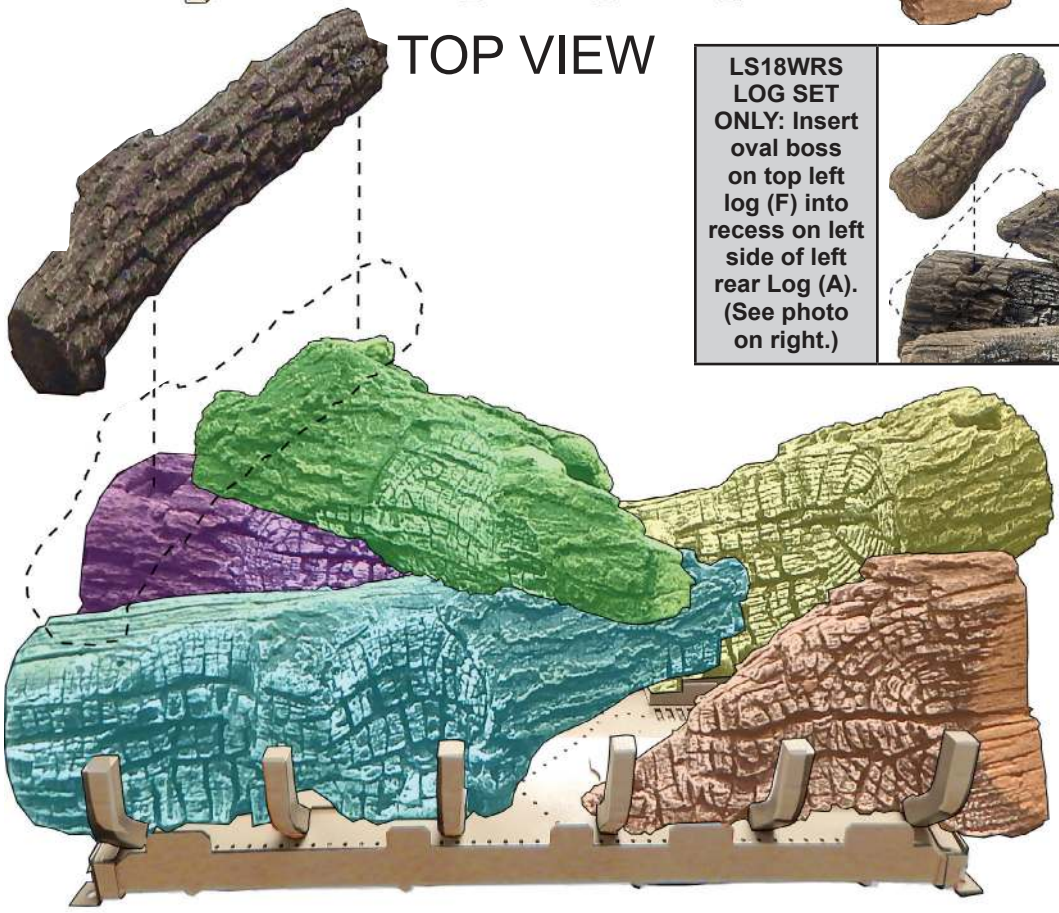
6. Insert square boss on left top **Log (F)** into recess on left side of left rear **Log (A)** and rectangle boss onto back left side of center **Log (E).**



TOP VIEW

LS18WRS LOG SET ONLY: Insert oval boss on top left log (F) into recess on left side of left rear Log (A). (See photo on right.)

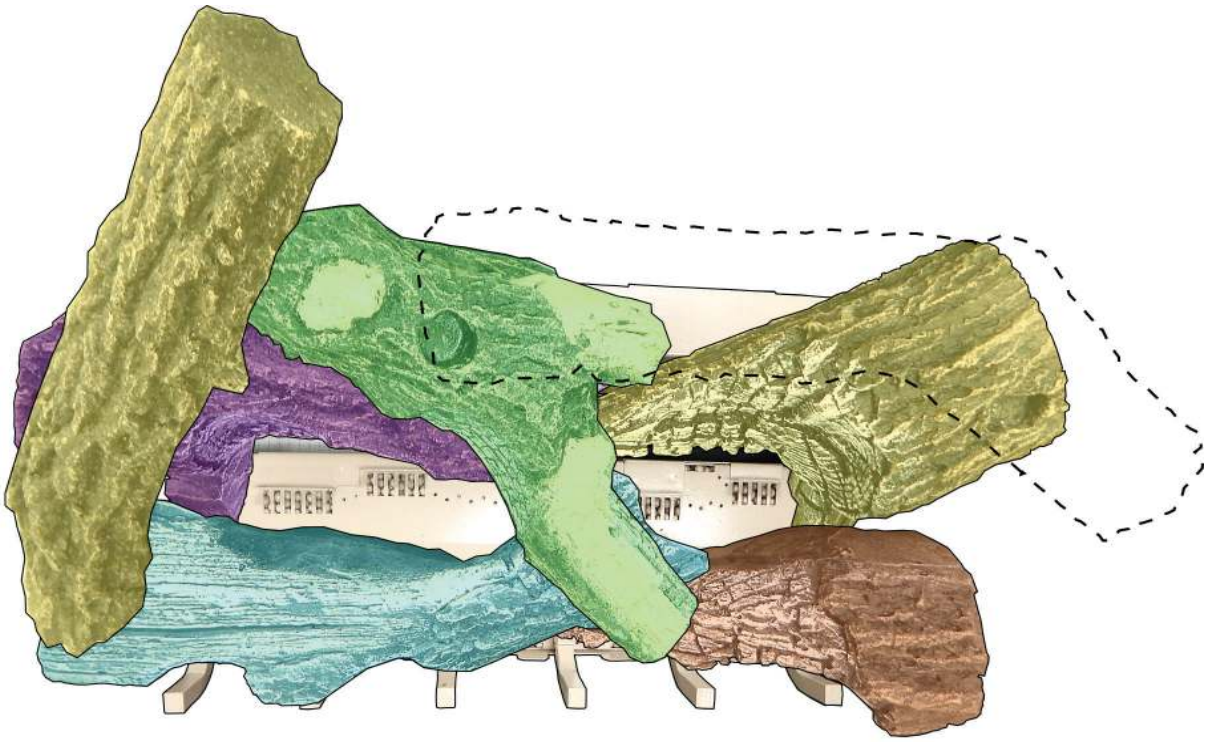




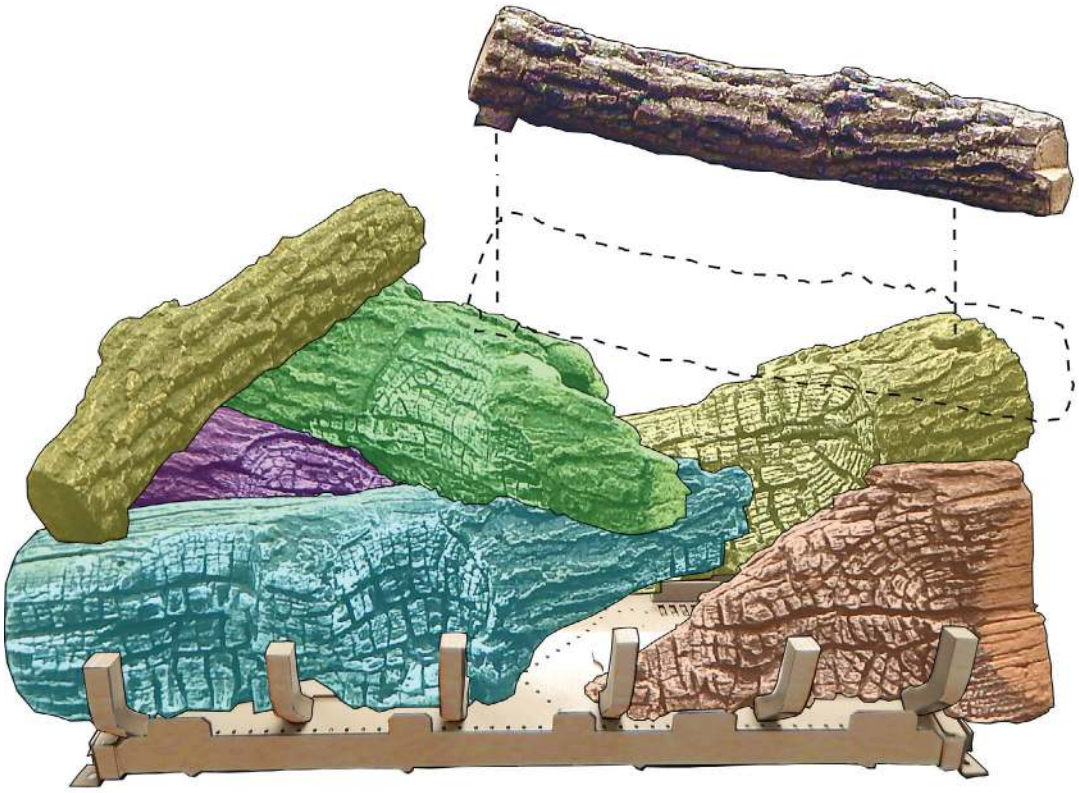
FRONT VIEW

LOG PLACEMENT - SUPER STACKED WILDWOOD

7. Insert round boss on right top **Log (G)** into recess on center **Log (E)** and square boss on right top **Log (G)** into recess on right rear **Log (B).**



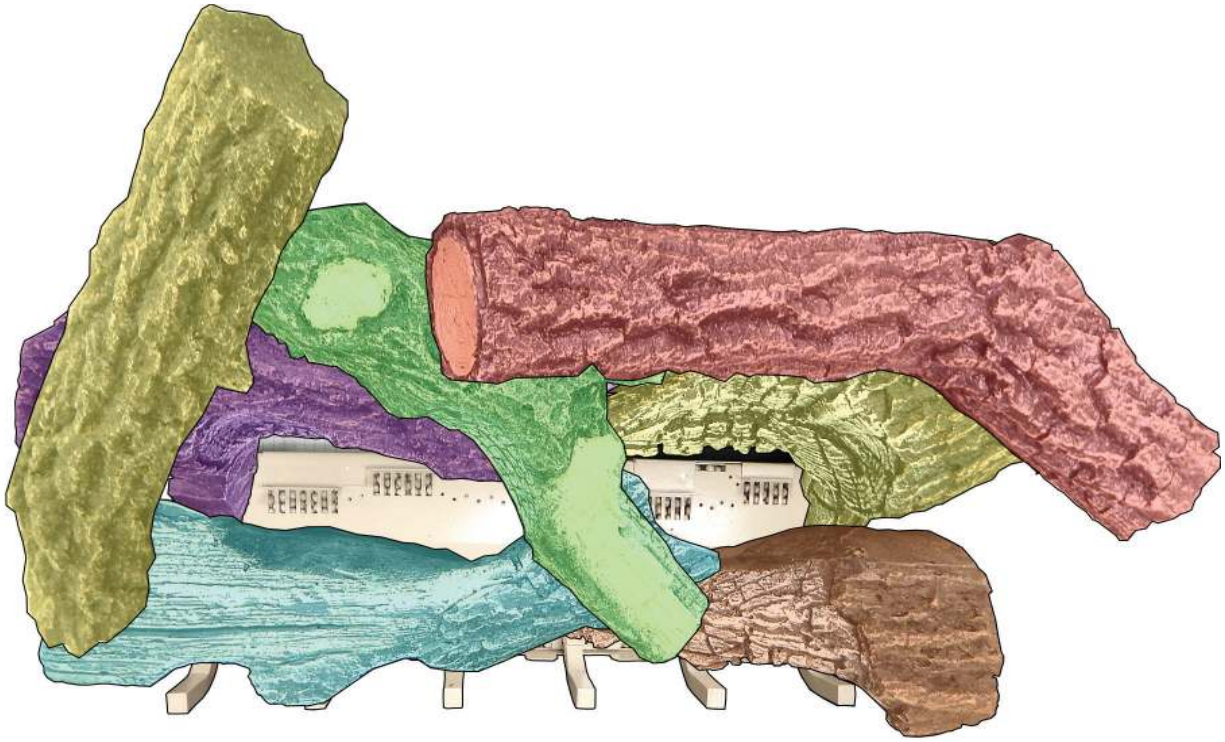
TOP VIEW



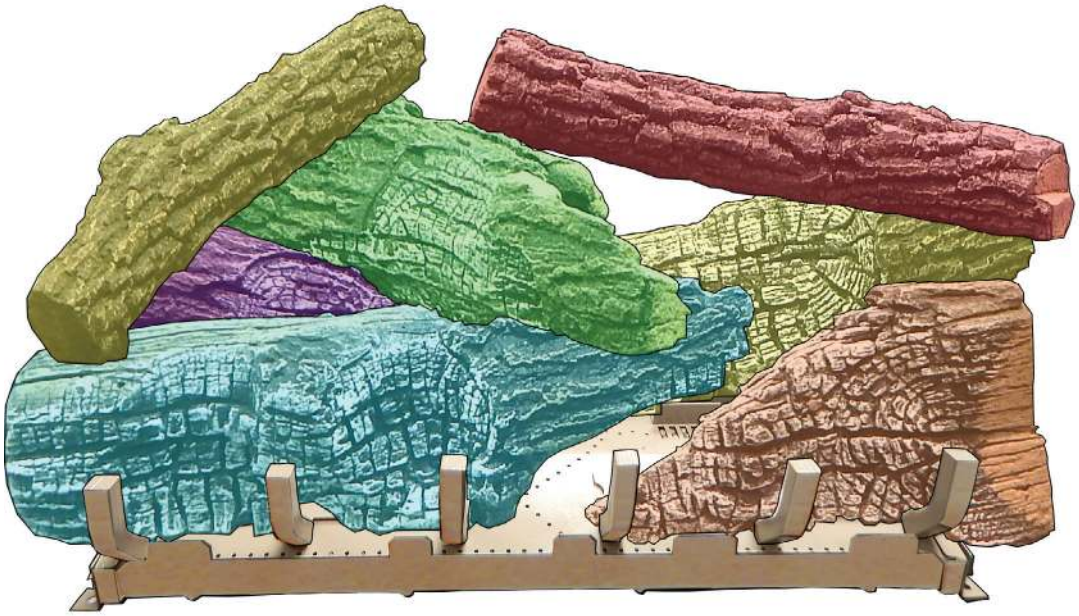
FRONT VIEW

LOG PLACEMENT - SUPER STACKED WILDWOOD

8. Log placement is completed.



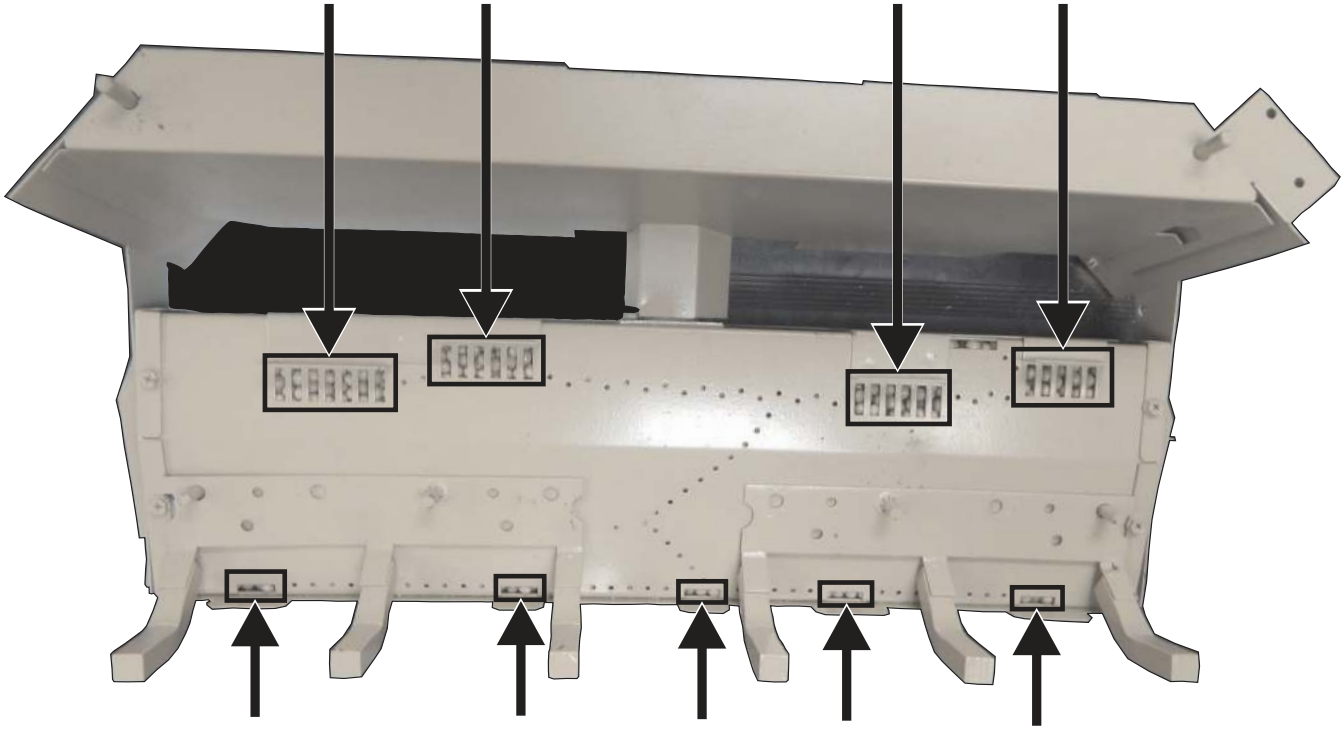
TOP VIEW



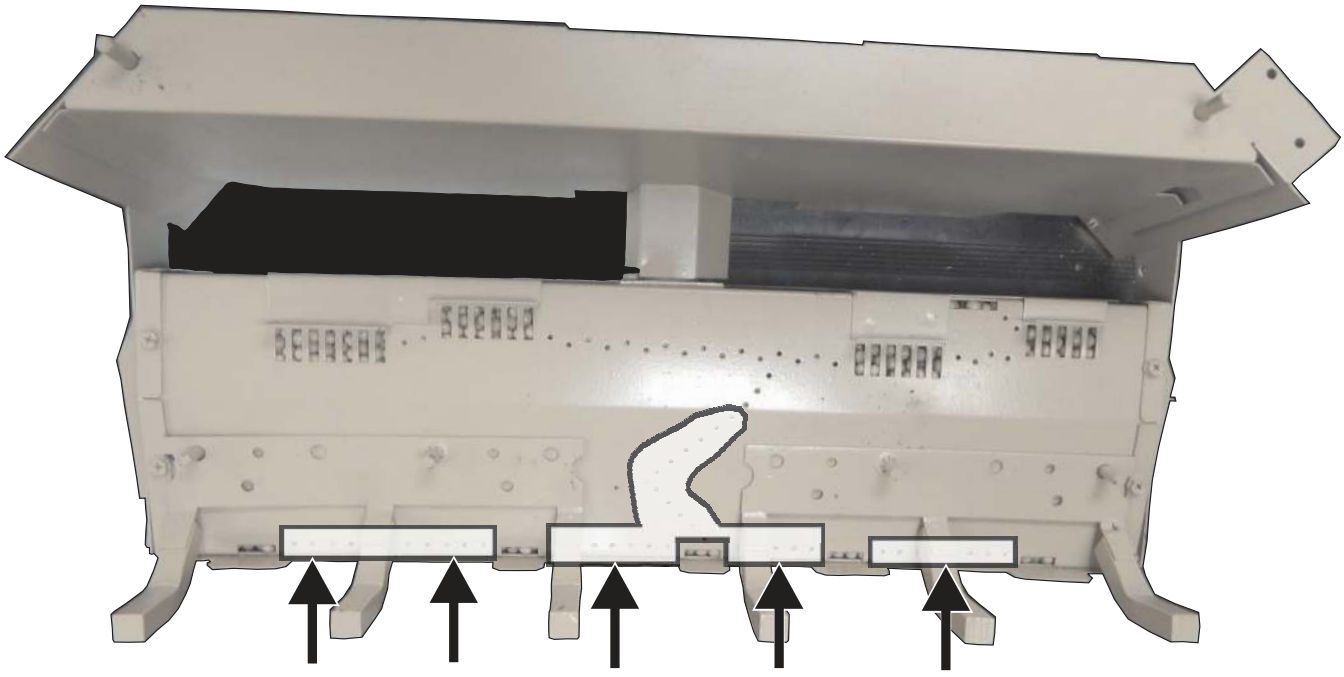
FRONT VIEW

EMBER PLACEMENT - LS(18,24,30)WRS

Do not cover any large rear ports with glowing embers.



Do not cover any large front ports with glowing embers.



Area for glowing embers.

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 and Grills

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

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

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.



Empire Comfort Systems Inc.
Belleville, IL

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