



Owner's Operation and Installation Manual

INSTALLER: Leave this manual with the appliance.
CONSUMER: Retain this manual for future reference.

Models ZVFCV39, ZVFCV42, ZVFCV47

Certified to: ANSI Z21.91:20

Listed Certified for USA

Ventless Firebox Enclosures for Gas-Fired Unvented Gas Log Type Room Heaters

⚠ -WARNING-

Carefully review the instructions supplied with the type unvented room heater for the minimum fireplace size requirement.
DO NOT INSTALL AN APPLIANCE IN THIS FIREBOX UNLESS THIS FIREBOX MEETS THE MINIMUM DIMENSIONS REQUIRED FOR THE INSTALLATION.

This appliance must be installed by a licensed plumber or gas fitter in the Commonwealth of Massachusetts and meet the requirements of 527 CMR 30 and 248 CMR.

⚠ -WARNING-

This Firebox is to be used only with certain vent-free gas log heaters (refer to table). Do not burn wood or other materials in this firebox.

⚠ -WARNING-

FOR USE ONLY WITH A LISTED GAS-FIRED UNVENTED ROOM HEATER NOT TO EXCEED 40,000 BTU/H. DO NOT BUILD A WOOD FIRE.

⚠ -WARNING-

Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency, or the gas supplier.

⚠ -WARNING-

WARNING: If the information in this manual 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.
 - 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.

⚠ -WARNING-

This is an unvented gas-fired heater. It uses air (oxygen) from the room in which installed. Provisions for adequate combustion and ventilation must be provided.

⚠ -WARNING-

If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

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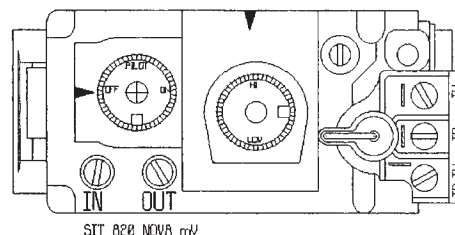
WARNING:

PLEASE VERIFY THE FOLLOWING STEPS ARE TAKEN WHEN INSTALLING A VENT FREE BURNER SYSTEM.

STEP 1: WHEN INSTALLING BURNER SYSTEMS, VERIFY THAT THE SERIAL NUMBER PLATE AND YELLOW BURNER INSPECTION TAG (LOCATED NEAR VALVE) ARE THE SAME TYPE OF GAS. SHOULD THE GAS TYPE NOT BE SAME, RETURN THE BURNER SYSTEM TO WHOM YOU PURCHASED IT FROM, AND ASK FOR A REPLACEMENT.

STEP 2: VERIFY THE WATER COLUMN PRESSURE (IN/OUT). (IF YOU DON'T KNOW HOW TO CHECK WATER COLUMN PRESSURE YOU SHOULD NOT BE INSTALLING THIS PRODUCT, CONTACT A LICENSED GAS FITTER.) THE OUTLET PRESSURE IS REQUIRED NOT TO EXCEED THE FACTORY SETTINGS. ADJUST PROPANE AT THE REGULATOR IF PRESSURES EXCEED THOSE RECOMMENDED, IF THE NATURAL GAS PRESSURE IS ABOVE 3 1/2" CONTACT THE FACTORY OR SALES REPRESENTATIVE WITH YOUR READING BEFORE YOU USE THE BURNER SYSTEM.

<u>TYPE OF GAS</u>	<u>INLET</u>	<u>OUTLET</u>
PROPANE	11"	10"
NATURAL GAS	5 1/2 - 7"	3 1/2"



STEP 3: THE POSITIONING OF THE LOGS IS CRITICAL FOR SAFE AND CLEAN OPERATION OF THIS HEATER. SOOTING AND OTHER PROBLEMS CAN OCCUR IF THE LOGS ARE NOT PROPERLY AND FIRMLY POSITIONED AS INSTRUCTED IN MANUAL. DO NOT ATTEMPT TO INSTALL LOGS IF THEY ARE DAMAGED OR BROKEN.

FAILURE TO FOLLOW AND COMPLY WITH THESE STEPS CAN CAUSE SOOTING AND KINGSMAN FIREPLACES WILL NOT BE RESPONSIBLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OR EXPENSES IN CONNECTION WITH ANY USE OR FAILURE OF THE VENT FREE BURNER SYSTEM.

READ OWNERS MANUAL CAREFULLY AND COMPLETELY BEFORE TRYING TO ASSEMBLE OPERATE, OR SERVICE THIS APPLIANCE.

Pre-installation Questions and Answers

About curing of the paint

Your stove or fireplace has been painted with the highest quality silicone stove paint. This paint dries quickly in 15-20 minutes when first applied at the factory. However, due to the high temperature silicone components, the paint will cure when heat is applied to the appliance as it is first used. The following information applies to the curing process to get the paint fully hard and durable. **Note: Use of painter's tape is not recommended, as it may damage the paint.**

Fire the appliance four successive times for 10 minutes each firing and a 5-minute cool down between each.

- Babies, small children, pregnant women, and pets should leave the area during the cure phase.
- Ventilate well, open doors and windows.
- Do not touch during curing.

Why does my fireplace or stove give off odor?

It is normal for your fireplace to give off some odor at first. This is due to the curing of the paint, adhesives, silicones, and any undetected oil from the manufacturing process as well as the finishing materials used with the installations (e.g. marble, tile and the adhesives used to adhere this product to the walls can react with heat and cause odors).

It is recommended that you burn your gas fireplace or stove for a minimum of four hours at a time with the fan off (if a fan is present) after the curing of the paint has been completed. These odors can last upward to 40 hours of burn time; keep burning at a minimum of four hours per use until odors dissipate.

Noise coming from the fireplace?

Noise is caused by the expansion and contraction of metal as the appliance heats up and cools down. This is normal and is similar to the sounds produced by a furnace or heating duct. This noise does not affect the operation or longevity of your fireplace.

- Different types and thicknesses of steel will expand and contract at different rates resulting in "cracking" and "ticking" sounds throughout the heating and cooling periods.
- You should also be aware that as temperatures change within the unit these sounds will likely reoccur. Again this is normal for steel fireboxes, and is not a defect.

Note to the Installer:

Be sure appliance is working properly and its operation (including remote control operation, if included) is fully explained to and understood by the customer.

Operating Instructions

1. Be sure to read and understand all the instructions in this manual before operation of appliance.
2. Ensure all wiring is correct and properly enclosed to prevent possible shock.
3. Check for gas leaks.
4. If brick or porcelain liners are used, ensure they are installed.
5. Verify that the pilot can be seen when lighting the appliance. If not, the log or rock placement is incorrect.
6. If the unit is turned off, you must wait a minimum of 60 seconds before re-lighting it.

Burner System Options

See chart below for required burner system:

**This appliance is equipped for (Natural or Propane) Gas.
Field conversion is not permitted.**

39ZVFCV, 42ZVFCV, and 47ZVFCV are approved as Universal Vent Free Boxes.

GLVF24 Log Grate Burner System

Controls are located underneath log grate inside firebox.

Burner Model	Valve Type	Fuel Type	BTU - Input	Min/Max Inlet	Manifold Pressure	Orifice Size	Primary Air
GLVF24MVN	Millivolt	Natural Gas	25,500 – 38,250	5.5"/10"	1.6-3.5"	32	.218"
GLVF24MVP	Millivolt	Liquid Propane	29,000 – 38,000	11/13"	6.3-10"	49	Full Open

The GL series of gas log sets can be used in ZVFCV39U, ZVFCV42U and ZVFCV47 Universal Fireboxes

Fibre Log Set – Required for burners above

LOGF18	Fibre Log Set 18" (ZVFCV39 / ZVFCV42 / ZVFCV47)
LOGF24	Fibre Log Set 24" (ZVFCV39 / ZVFCV42 / ZVFCV47)
LOGF30	Fibre Log Set 30" (ZVFCV47 Only)

SAFETY INFORMATION WARNINGS

WARNINGS

Important: Read this owner's manual carefully and completely before trying to assemble, operate, or service this firebox. Improper use of this firebox can cause serious injury or death from burns, fire, explosion, electrical shock, and carbon monoxide poisoning.

Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, and / or nausea. If you have these signs, the heater may not be working properly. **Get fresh air at once! Turn off gas appliance. Have appliance serviced.** Some people (such as pregnant women, persons with heart or lung disease, persons with anemia and those at high altitudes) are more affected by carbon monoxide than others. Make certain you read and understand all warnings.

This appliance is equipped for (Natural or Propane) Gas. Field conversion is not permitted.

Warning: Failure to position parts in accordance with these diagrams or failure to use only part specifically approved with this heater may result in property damages or personal injury.

1. Use correct gas type for your appliance. Do not convert from one gas type to another.
2. If this appliance is for use with Propane gas, do not place propane supply tank(s) inside any structure. Locate propane supply tank(s) outdoors.
3. If you smell gas:
 - Shut off gas supply.
 - 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.
4. Do not use this appliance for burning trash or cooking. Never place matches, paper, garbage, or any other material on top of logs or logs into flame.
5. **Warning:** Always operate appliance with front fireplace screens closed.
6. Make sure any safety screen or guard removed for servicing is in place before running appliance.
7. Never run appliance in a small, closed room. Open the door into next room to help ventilate.
8. If appliance shuts off, do not relight until you provide fresh outside air. If appliance keeps shutting off, have it serviced.

DANGER

CARBON MONOXIDE POISONING MAY LEAD TO DEATH!

NOTE: It is recommended that a Carbon Monoxide (CO) Detector be installed in or near bedrooms and on all levels of your home. Place a detector about 15 feet (4.5 meters) outside the room that houses your gas appliance.

9. Do not run appliance:
 - where flammable liquids or vapors are used or stored.
 - under dusty conditions.
10. Surface of appliance becomes very hot when operating. Keep children and adults away from hot surface. Appliance will remain hot for some time after shutdown. Allow surface to cool before touching.
11. Do not use this appliance if any part has been submerged under water. Immediately call a qualified technician to inspect the appliance and to replace any part of the control system and gas control which has been under water.
12. The installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1.
13. Never install the appliance:
 - in a bedroom, bathroom, mobile home, or recreational vehicle.
 - where curtains, furniture, clothing, or other flammable objects are less than forty-two inches (42") from the front of the appliance.
 - in high traffic areas.
 - in windy or drafty areas.
14. Disconnect the appliance and its individual shut off valve from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig, (3.5kPa).
15. Isolate the appliance from the gas supply piping system by closing its individual manual shut off valve during any pressure testing of the the gas supply piping system at test pressure equal or less than 1/2 psig.
16. Do not use any type of after-market blower that fits inside the fireplace. Drafts created by these type of blowers may cause sooting.

SAFETY INFORMATION



WARNINGS Cont.

17. Turn off appliance and let cool before servicing. Only a qualified service person should install, service and repair appliance.
18. Inspect the appliance before use and at least annually by a professional service person. Frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is important that control compartment, burner and circulating air passage of the appliance be kept open.
19. When operated for the first time, there will be some smell from the appliance. This will diminish and disappear after a few hours of operation.
20. **Warning:** Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter flame patterns.
21. **Warning:** Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater.
22. The firebox canopy must not be replaced with a canopy which may be provided with the decorative type UNVENTED room heater.
23. **Warning:** Do not operate ceiling fans in same room as the vent free appliance.
24. Must be installed by a licensed gasfitter in the Commonwealth of Massachusetts. Complies to code 527CMR.
25. Unvented gas fired appliances may be used only for supplemental heat and/or decorative purposes and under no circumstances shall they provide a primary heat source.

LOCAL CODES

Install and use fireplace with care. Follow all local codes. In the absence of local codes, use the latest edition of The National Fuel Gas Code ANSI Z223.1, also known as NFPA 54*. Firebox must be electrically grounded in accordance with the National Electrical Code, ANSI/NFPA 70 (latest edition).

*Available from:

American National Standards Institute, Inc.
1430 Broadway
New York, NY 10018

National Fire Protection Association, Inc.
BatterymarchPark
Quincy, MA 02260



WARNING

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

FOR YOUR SAFETY READ BEFORE LIGHTING

- A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- 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 gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. 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 or gas supplier. 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 has been under water.

Universal Firebox

The ZVFCV39, ZVFCV42, and ZVFCV47 are approved as Zero Clearance Universal Fireboxes.

When installing another manufacturer's log and burner system, follow the manufacturer's assembly instructions.

For Framing, refer to appropriate **Framing Specifications** section in this manual.

Follow all **Clearances to Combustibles** in this manual.

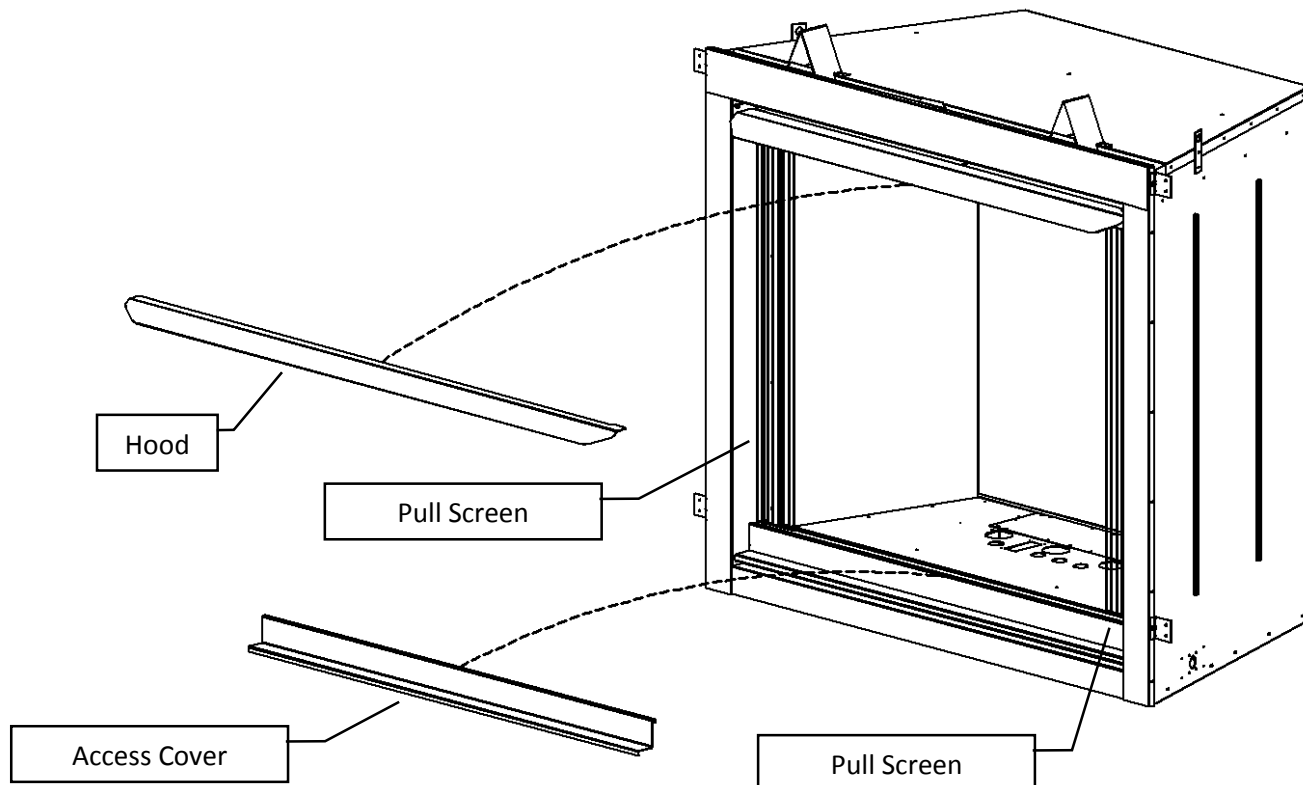
When using the optional blower kit (Z46FK) the Thermodisc can be discarded. The two leads from the blower must be attached directly to the variable speed switch. See **Fan Installation** section for wiring.

The fireplace hood is packaged on top of the firebox from the factory. It must be installed on the firebox before operation of the appliance.

The firebox hood must not be modified or replaced with a hood which may be provided with the decorative type unvented room heater.

USE ONLY KINGSMAN DECORATIVE COMPONENT AND REPLACEMENT PARTS.

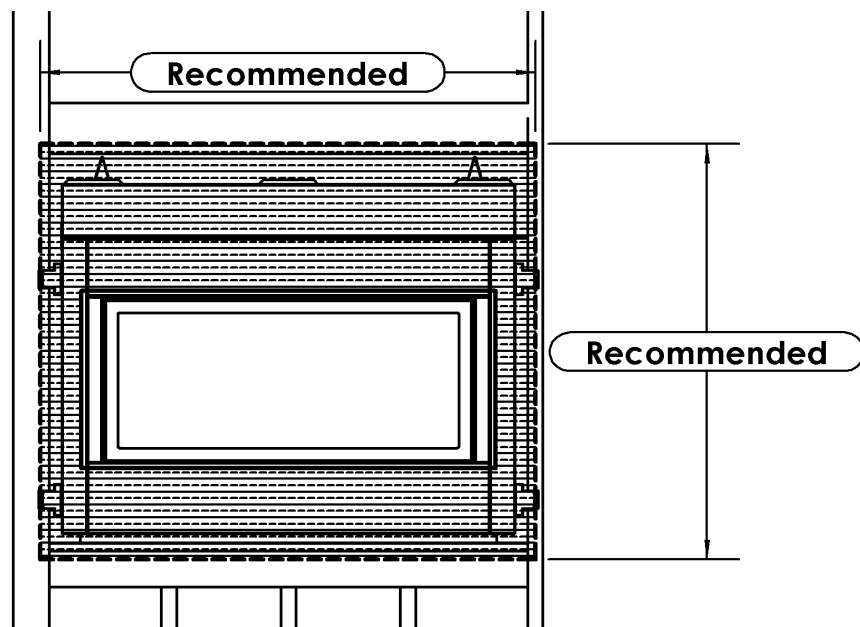
Model	Firebox Height	Firebox Width Front	Firebox Width Back	Firebox Depth	Firebox Max BTU
ZVFCV39	26"	29.75"	22.5"	15.5"	40,000
ZVFCV42	29.125"	33.875"	26.375"	15.5"	40,000
ZVFCV47	34.125"	39.75"	29.75"	17.25"	40,000



Recommendations for Finishing of Clean View Linear Products

When finishing the wall around the fireplace, it is critical that the wall covering be fastened properly. It is acceptable to pre-drill holes and use self-tapping screws which may be used to fasten a backer for tile, marble, etc. Screws being installed through non-combustible board should be self-tapping type with a maximum length of 2 inches. Wall covering fasteners, such as screws or nails, are not permitted in some locations. Do not drill or install longer screws which may penetrate into the lower cover panel area as this may damage internal components.

- Only **non-combustible** materials may be used over the face of the appliance.
- We recommend that DUROCK (non-combustible material) be tied in to the entire perimeter of the fireplace for durability.

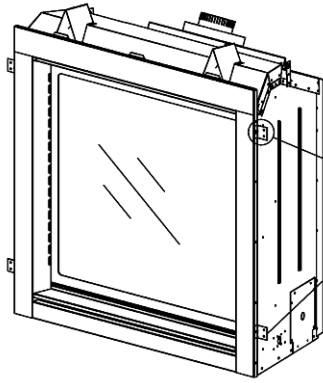


Finishing Recommendations (Obtained from professional construction contractors and finishers):

- Frame unit with metal studs (minimum 20 gauge). **Wooden studs may be used, but may cause drywall screws to pop or pull due to wood studs drying out.**
- Minimum of 1/2" DUROCK cement board (this **non-combustible** panel is ULC listed as a wall shield/floor protector) and fasten to the entire perimeter framing.
- Use fiberglass (mesh) tape for all joints in area of the fireplace.
- Use Yellow joint mud (contains high amounts of glue) – two coats, finishing with one coat of green topping mud, sand and prep for painting.
- If not using a surround, a metal "L" Trim may be used to finish perimeter of DUROCK.
- Refer to the following website for more information on using DUROCK Cement Board: www.cgcinc.com

OTHER NOTES:

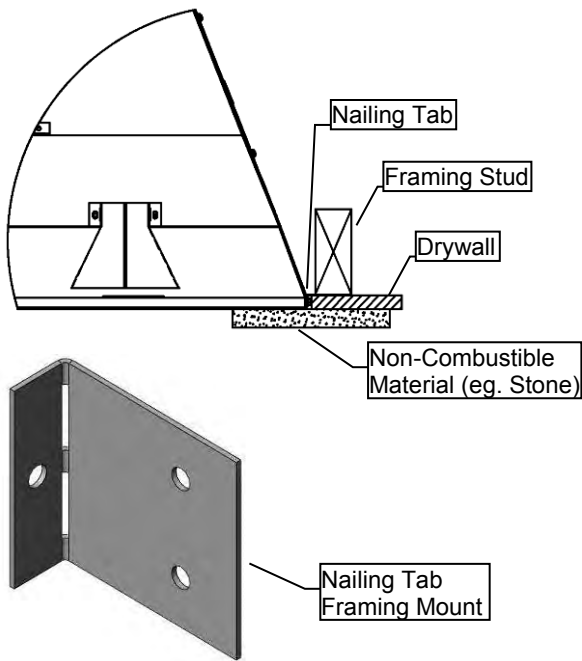
- A **full single sheet** of non-combustible board (no joints) above the unit is recommended if possible.
- It is preferred to attach the non-combustible board to **framing only** and not directly to the unit to allow for expansion and contraction during normal operation.
- Lighter colored painted surfaces may discolor due to heat exposure.



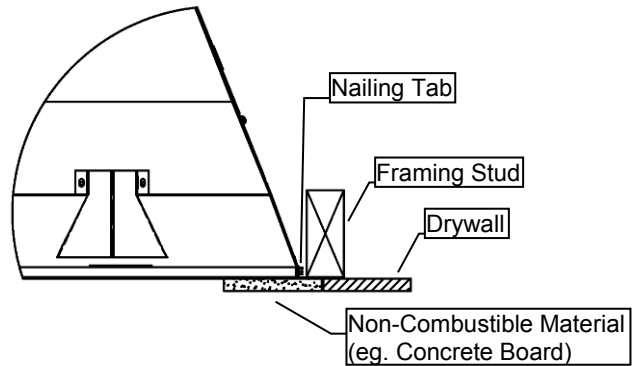
[Qty]2 Nailing Tabs are located on each side of the front frame.

These Nailing Tabs can be used in two ways:

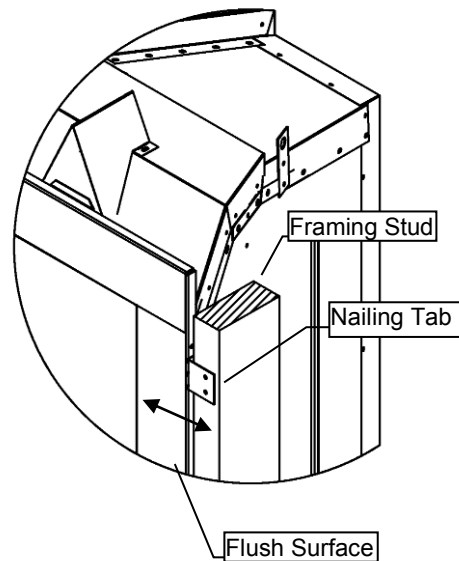
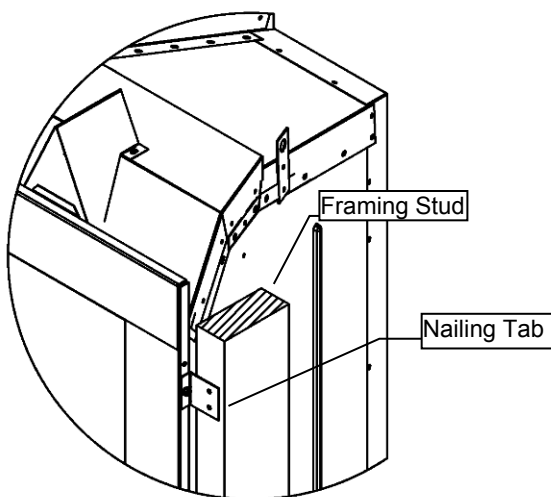
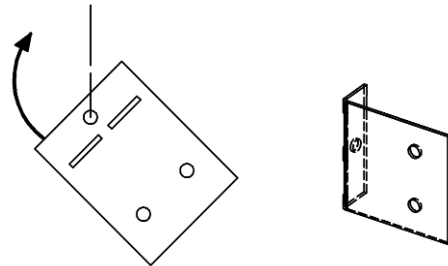
1/2" Drywall Flush with Face of Fireplace – Fireplace and Combustible Wall to be covered with a surround or Non-Combustible Materials (e.g. Stone around Fireplace).



Framing Flush with Face of Fireplace – Fireplace to be covered with Non-Combustibles (e.g. Concrete Board) for **Flat Wall** appearance.



Nailing Tabs Must Be Rotated 180° And Folded Back Onto Framing Stud.



Fireplace Framing

Built-in installation of this firebox involves installing firebox into a framed-in enclosure. Optional surrounds are available. Some Surrounds (i.e. S1, S1PF) will extend past sides of firebox.

This will cover the rough edges of the wall opening. If installing a mantel above the firebox, you must follow the clearances shown in the **Mantel Clearances** section. Follow the instructions below to install the firebox.

1. Decide how your fireplace will be finished (i.e. with surround or tile, etc.) before framing fireplace. Refer to **Nailing Tab Guide** and **Fireplace and Framing Dimensions** sections. The firebox framing should be constructed of 2 x 4 wood or metal.

The table below lists the rough opening dimensions for each model.

Rough Opening Dimensions			
	Width	Height	Depth*
39ZVFCV	39-1/2"	37-5/16"	20-5/16"
42ZVFCV	42-1/2"	40-3/8"	20-5/16"
47ZVFCV	48-1/2"	45-7/16"	22-5/8"
*Depth may vary depending upon how fireplace will be finished. Refer to Nailing Tab Guide section.			

2. Install gas piping to firebox location. See **Installing Gas Line** section and **Connecting to Gas Supply** in log set owner's manual. **IMPORTANT:** If installing blower accessory see **Fan Installation** section.
3. Carefully insert firebox into rough opening.
4. Attach firebox to wall studs using nails or wood screws through holes in nailing flange.
5. If using optional surround, install surround after final finishing and/or painting of wall. See appropriate **Surround Installation** instructions.
6. Install and properly test gas log heater. Follow installation instructions included with the vent-free gas log heater that is being installed.

⚠ CAUTION

If appliance is installed directly on carpeting or other combustible material other than wood flooring, a metal or wood panel extending the full width and depth of the appliance must be used. Carpet may extend 1 inch above the floor of the appliance.

⚠ CAUTION

Log heaters installed in this firebox create warm air currents. These currents move heat to wall surfaces next to firebox. Installing firebox next to vinyl or cloth wall coverings or operating firebox where impurities in the air (such as tobacco smoke) exist, may discolor walls.

⚠ WARNING

Do not allow any combustible materials to overlap the firebox front facing.

⚠ WARNING

Non-combustible materials such as brick, tile, etc. may overlap the front facing, but should never cover any necessary openings such as the access panel area.

⚠ WARNING

Use only non-combustible mortar or adhesives when overlapping the front facing with non-combustible facing material.

⚠ WARNING

Never modify or cover the front opening of the firebox.

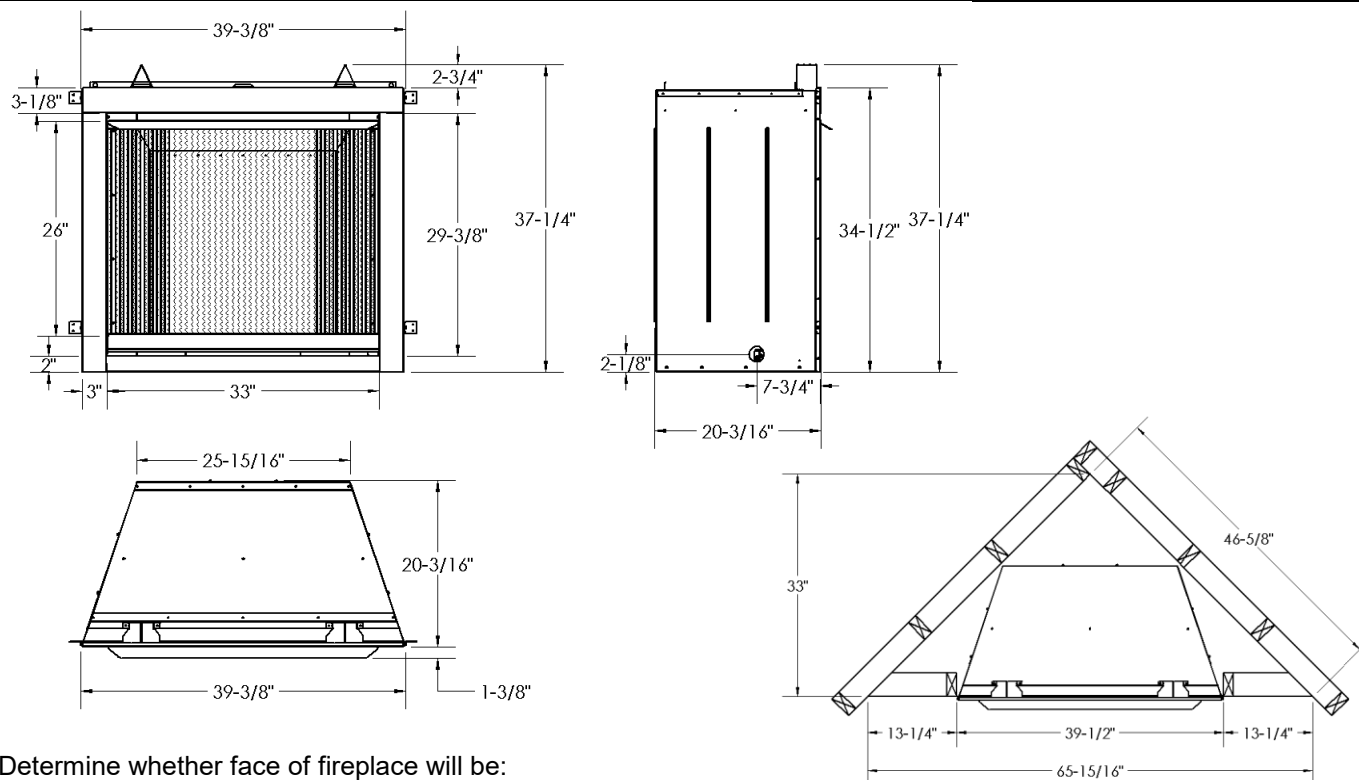
⚠ WARNING

Do NOT fill space around firebox with insulation or other materials.

⚠ WARNING

Do not notch framing or alter standoffs.

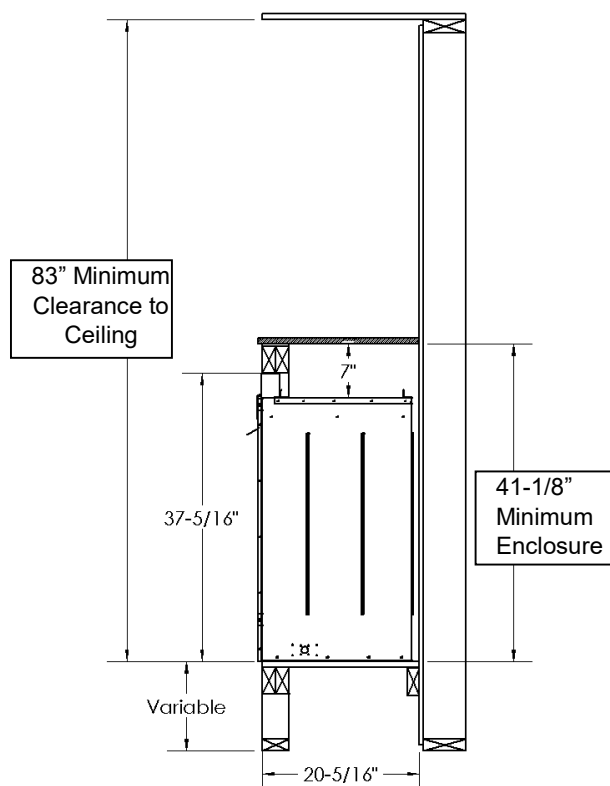
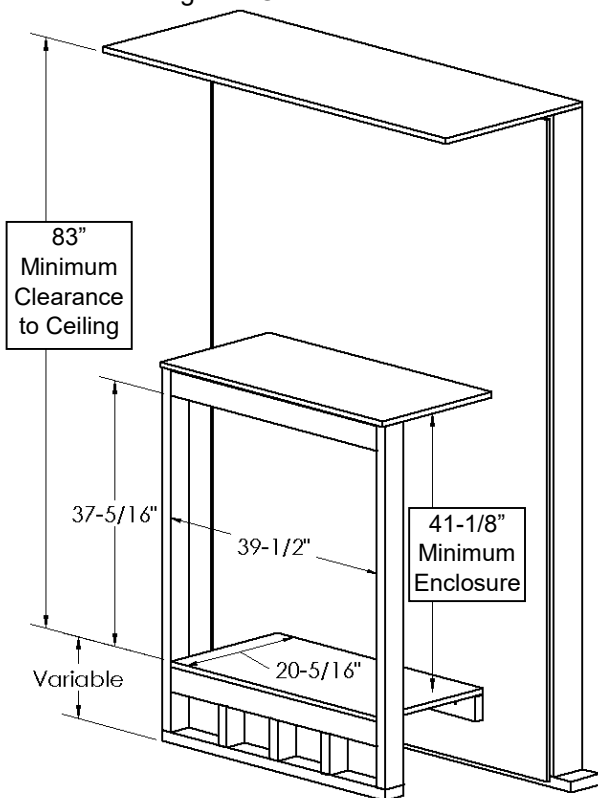
39ZVFCV Fireplace and Framing Dimensions



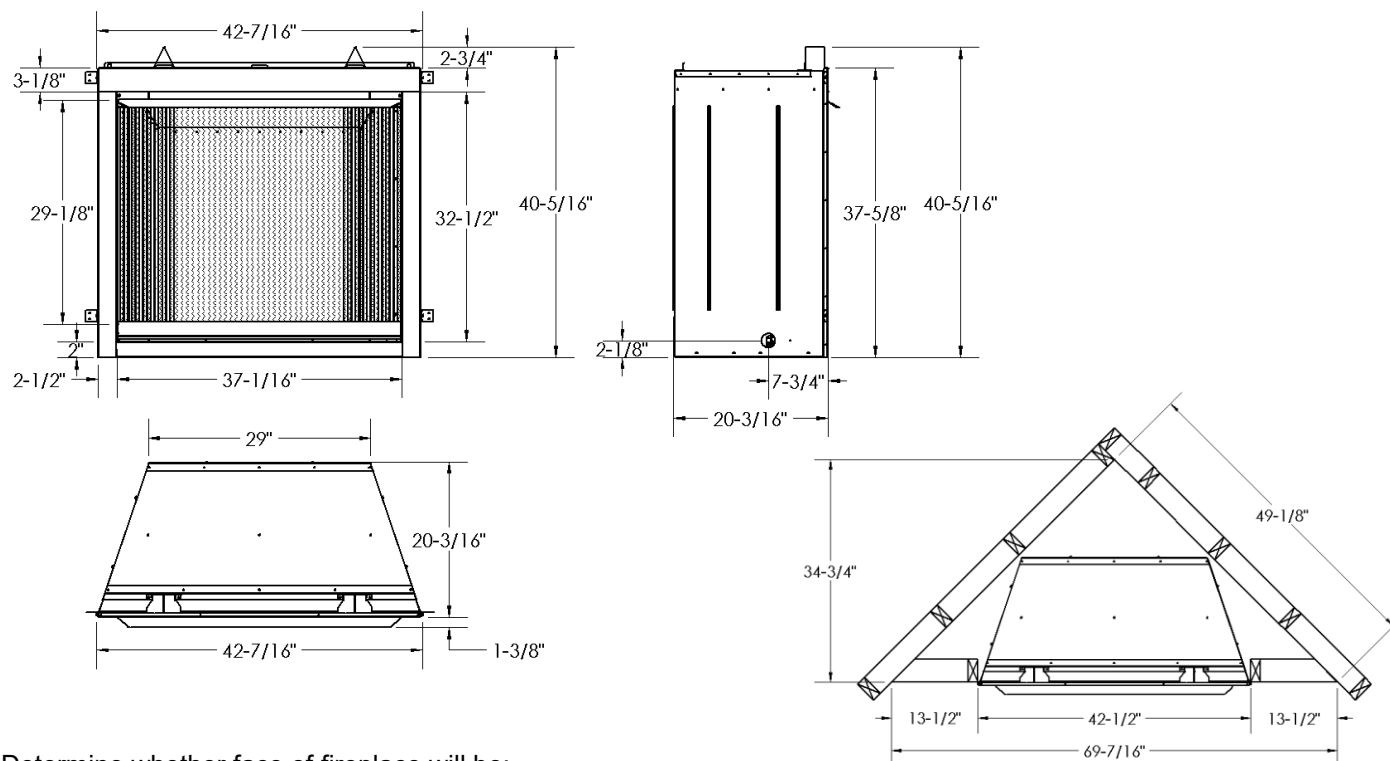
Determine whether face of fireplace will be:

- Flush with finished wall (e.g., for surround, cultured stone or other non-combustible covering).
- Flush with framing (to be covered with concrete board for a Flat Wall appearance).

Refer to Nailing Tab Guide section also.



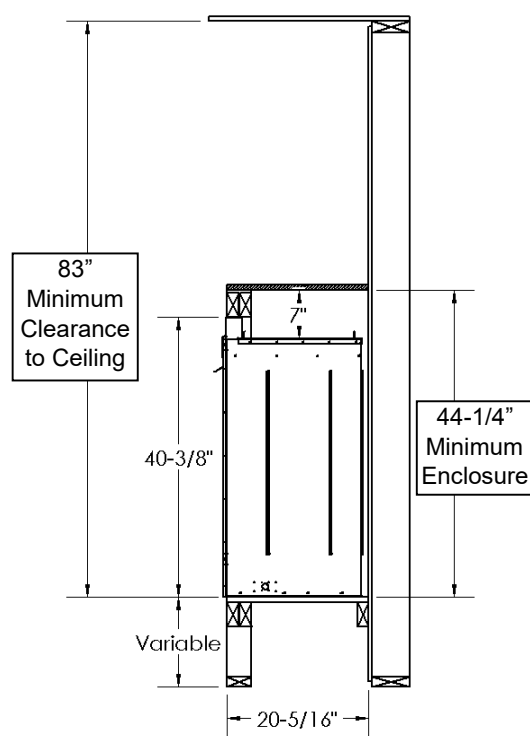
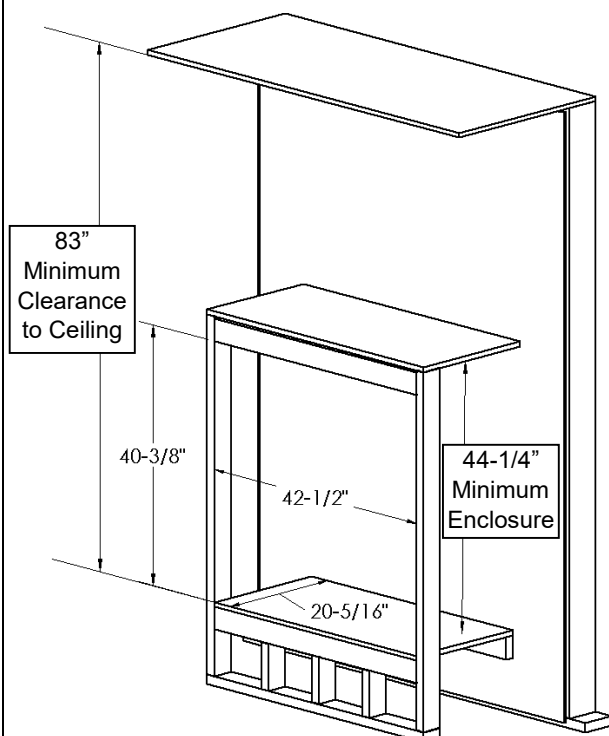
42ZVFCV Fireplace and Framing Dimensions



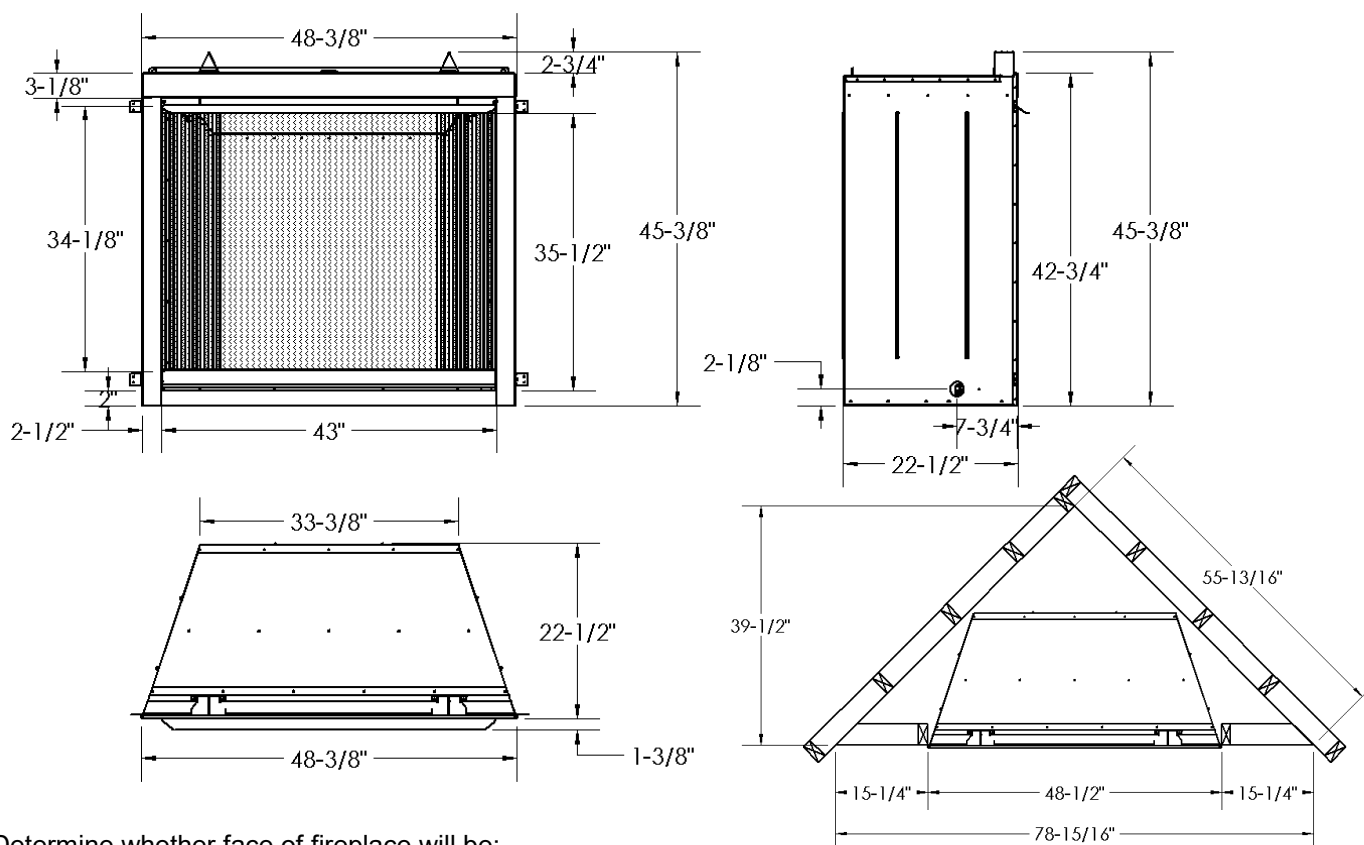
Determine whether face of fireplace will be:

- Flush with finished wall (e.g., for surround, cultured stone or other non-combustible covering).
- Flush with framing (to be covered with concrete board for a Flat Wall appearance).

Refer to Nailing Tab Guide section also.



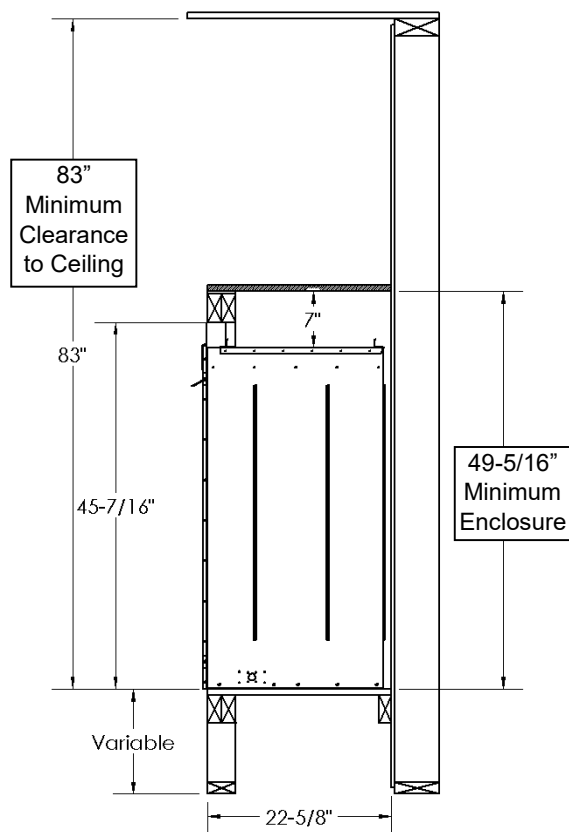
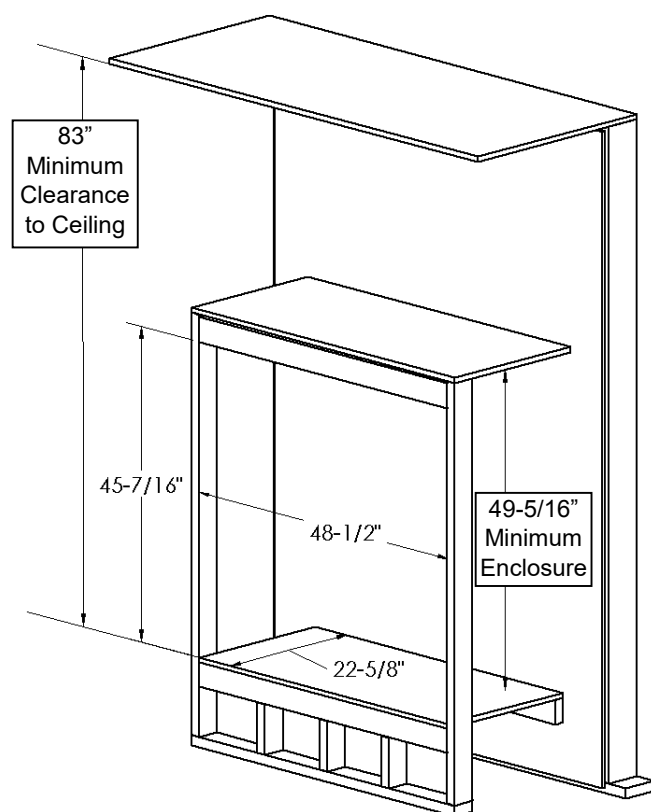
47ZVFCV Fireplace and Framing Dimensions



Determine whether face of fireplace will be:

- Flush with finished wall (e.g., for surround, cultured stone or other non-combustible covering).
- Flush with framing (to be covered with concrete board for a Flat Wall appearance).

Refer to Nailing Tab Guide section also.



Installation Clearances – 39 / 42 / 47 ZVFCV

Carefully follow the instructions below. This will ensure safe installation.

NOTICE

A qualified service person must install firebox. Follow all local codes.

IMPORTANT: Vent-free gas log heaters add moisture to the air. Although this is beneficial, installing firebox in rooms without enough ventilation air may cause mildew to form from too much moisture. See **Air for Combustion and Ventilation** section in this manual.

IMPORTANT: Make sure the firebox is level. If firebox is not level, log set will not work properly.

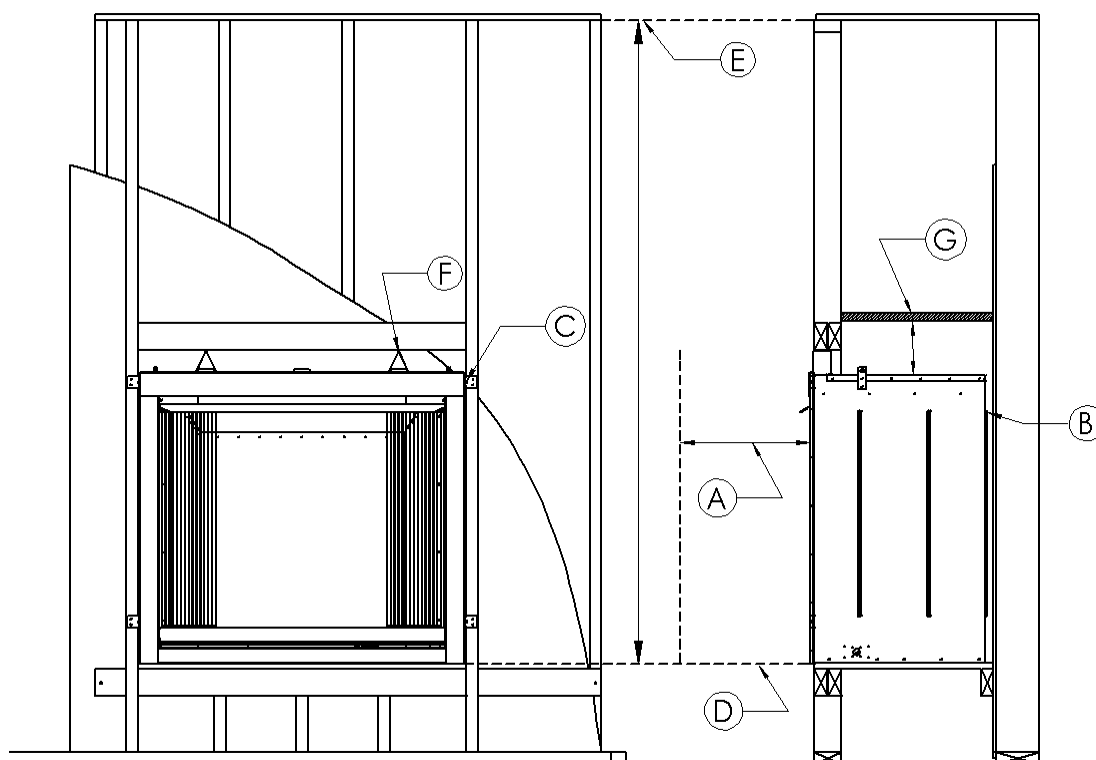
⚠ WARNING

Never install the firebox:

- in a bedroom or bathroom
- in a recreational vehicle
- where curtains, furniture, clothing, or other flammable objects are less than 36 inches from the front, top, or sides of the firebox
- in high traffic areas
- in windy or drafty areas

Clearance To Combustibles		39ZVFCV	42ZVFCV	47ZVFCV
A	Front of Fireplace	36"	36"	36"
B	Back (From Stand-offs)	0"	0"	0"
C	Side (From Stand-offs)	0"	0"	0"
D	Floor*	0"	0"	0"
E	Bottom of Fireplace to Ceiling	83"	83"	83"
F	Top (From Stand-offs)	0"	0"	0"
G	Top of Fireplace to Minimum Enclosure	7"	7"	7"

*Note: If appliance is installed directly on carpeting or other combustible material other than wood flooring, a metal or wood panel extending the full width and depth of the appliance must be used. Carpet may extend 1 inch above the floor of the appliance.



⚠ WARNING

Ensure the minimum clearances are maintained. Left and right clearances are determined when facing the front of the heater.

⚠ WARNING

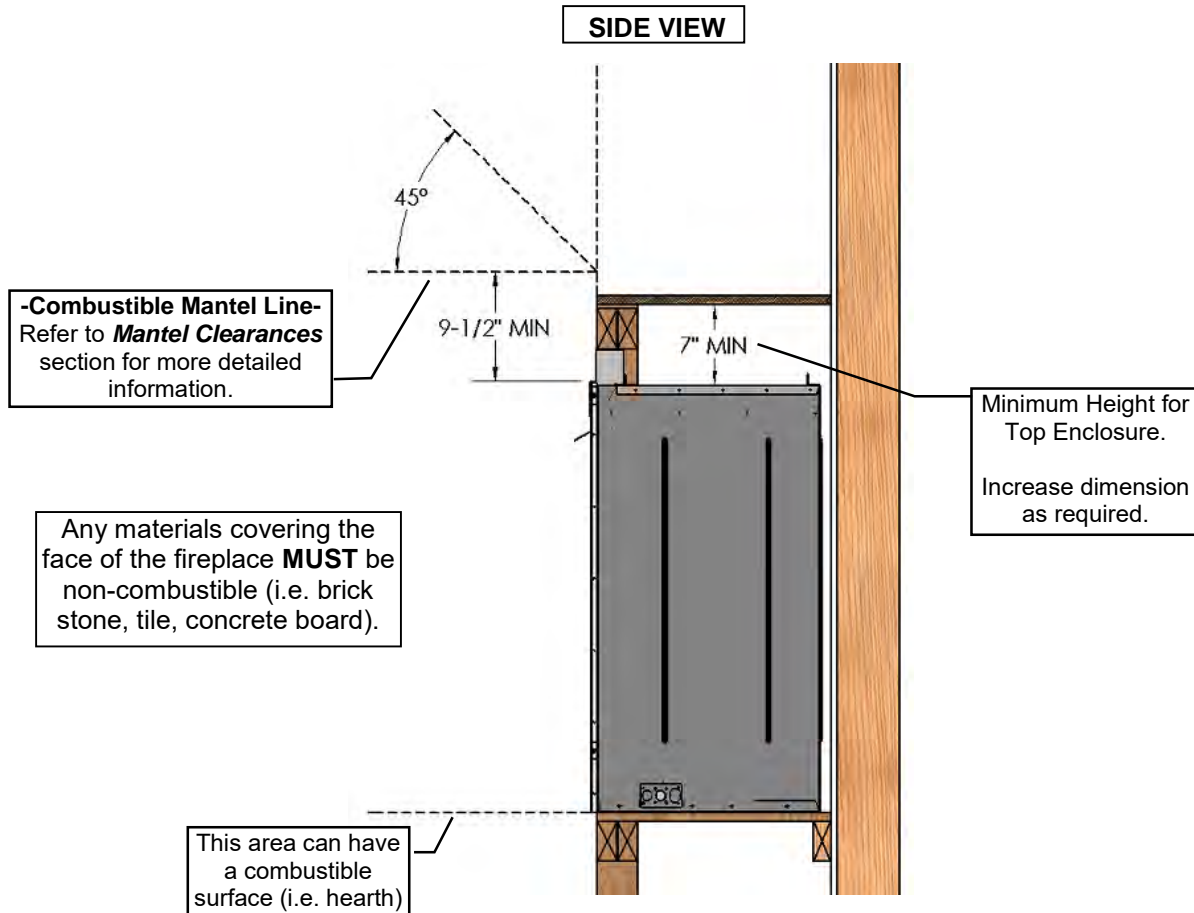
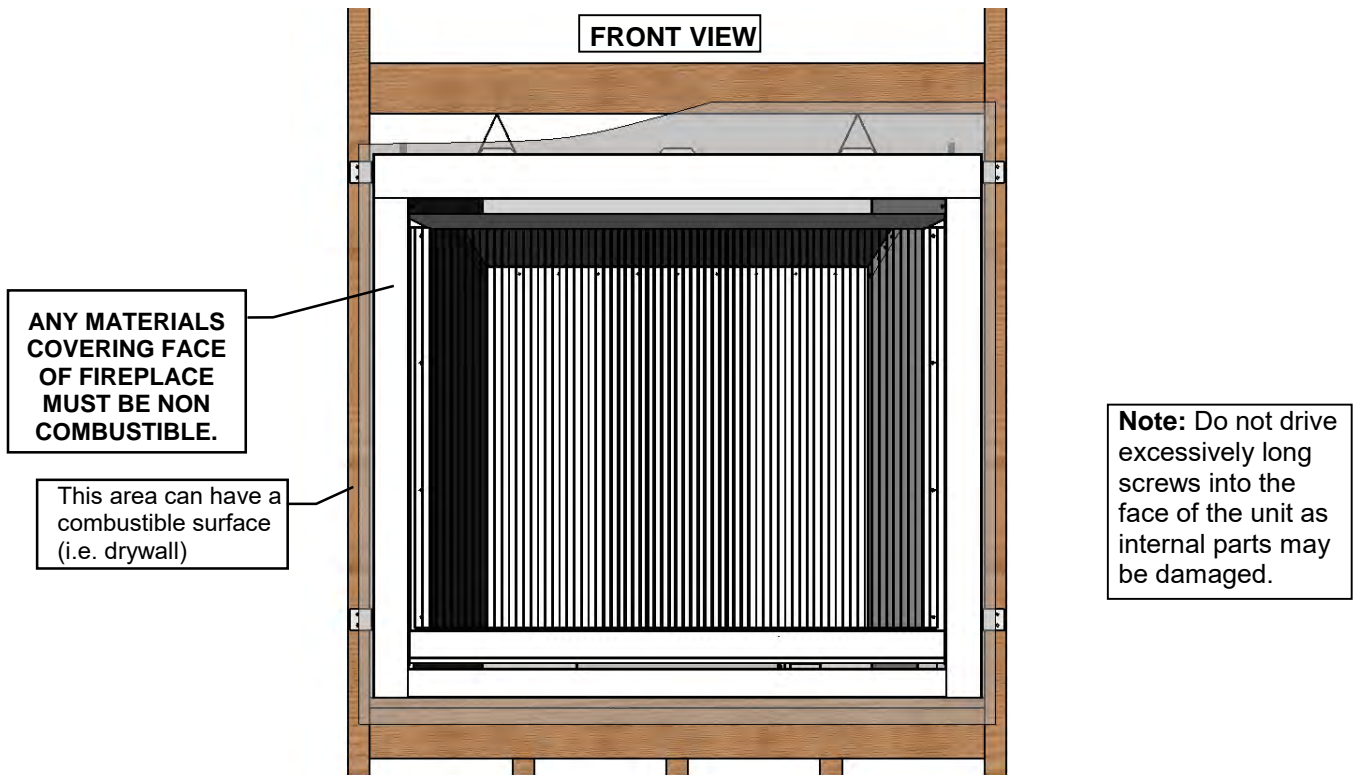
Maintain the minimum clearances. If you can, provide greater clearances from floor, ceiling, and adjoining wall.

39 / 42 / 47 ZVFCV Facing Requirements

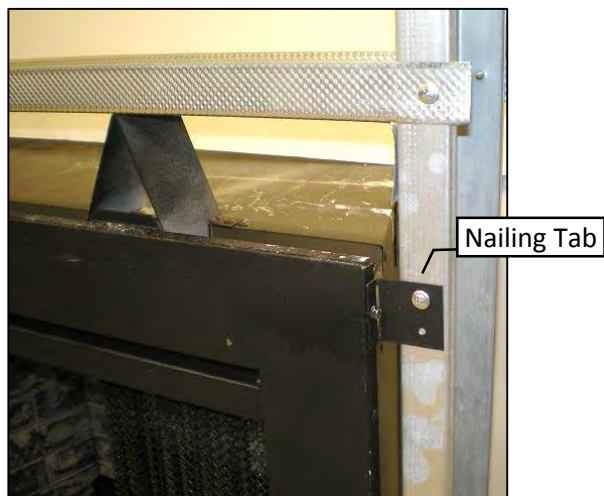
Required Non-Combustible Areas

If materials will be covering the face of the fireplace they must be non-combustible (i.e. brick stone, tile, concrete board).

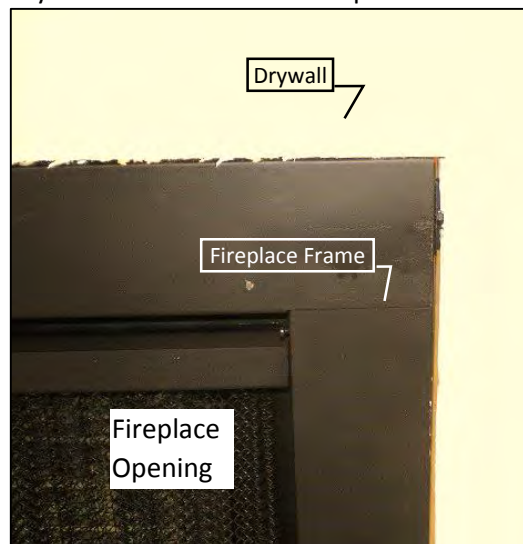
See **Basic Finishing** sections 1-5 also.



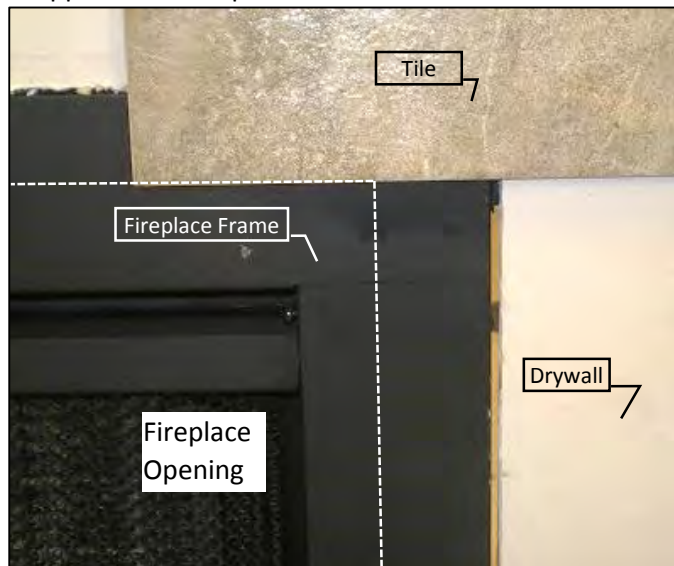
Step One: Frame Fireplace with nailing tabs oriented as shown.



Step Two: Use Drywall to finish face of wall.
NOTE: Drywall will be flush with fireplace face.

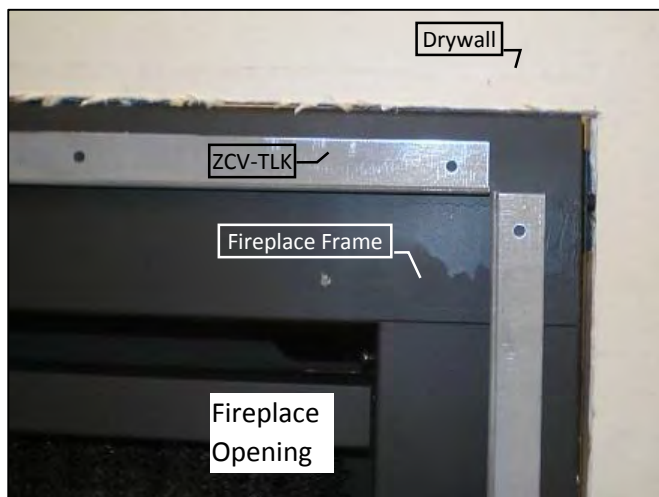


Step 3: A brick, tile, or other non-combustible border may be applied over fireplace face to conceal border.

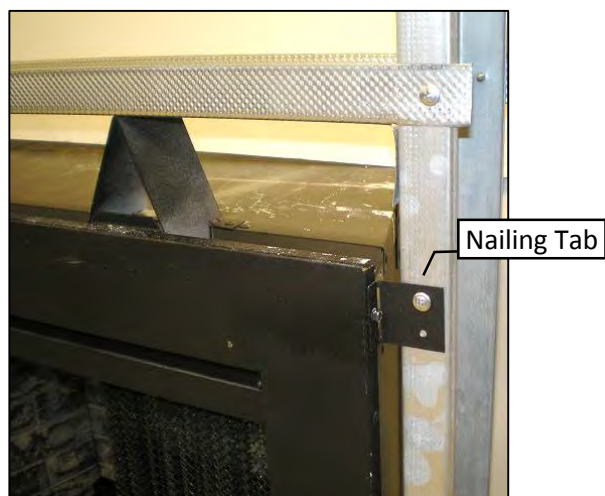


Optional:

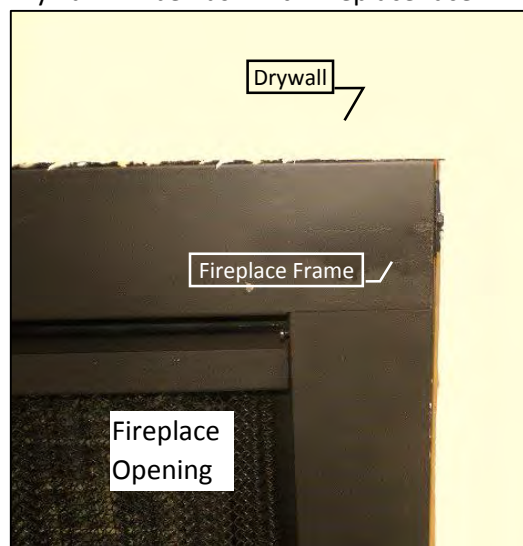
A Tile Lip Kit is Available. Part No. ZCV-TLK



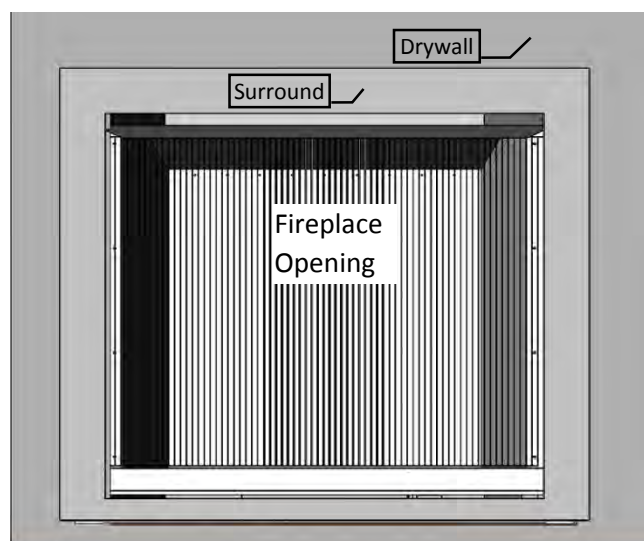
Step One: Frame Fireplace with nailing tabs oriented as shown.



Step Two: Use Drywall to finish face of wall.
NOTE: Drywall will be flush with fireplace face.

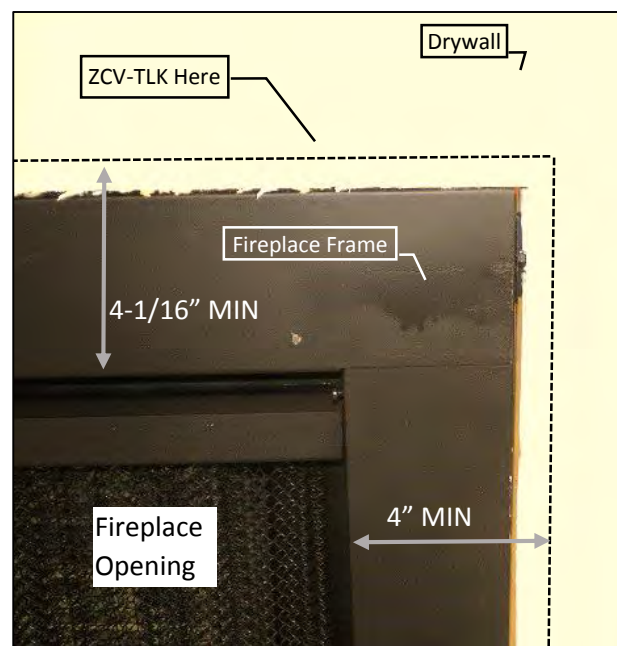


Step 3: Once wall is completely finished, Surround may be installed. Surround will conceal edges of fireplace.



Note: If installing tile, brick, or other material around the perimeter of the surround:
 You MUST Leave 4" of the face exposed around the fireplace opening on the Sides, 4" at the Bottom for the S1PF, and S1 must be clear at Bottom. 4-1/16" must be exposed on the top. This is to install and remove the Surround.

A Tile Lip Kit is Available. Part No. ZCV-TLK



ZVFCV 39 / 42 Basic Finishing 3

Concrete Board Behind S2PF Surround (3/4" Maximum Total Thickness)

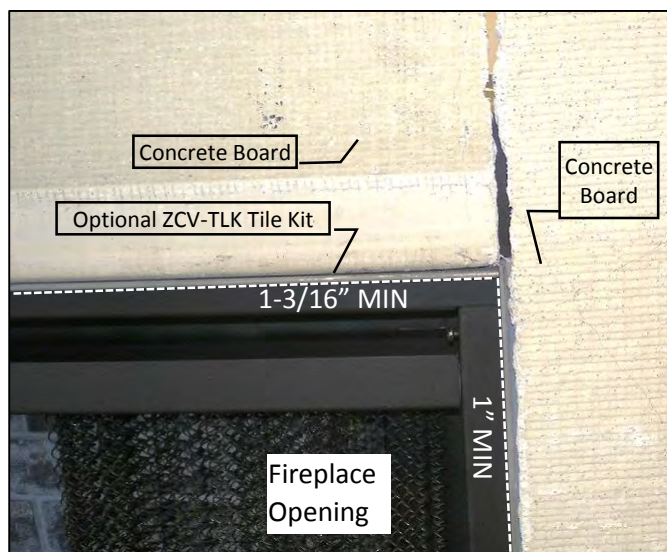
Step One: Frame Fireplace with nailing tabs oriented as shown (Flush with face of fireplace).



Step Two: Use Concrete Board to cover fireplace face. NOTE: Optional ZCV-TLK Tile Kit is available. Maintain clearances shown.

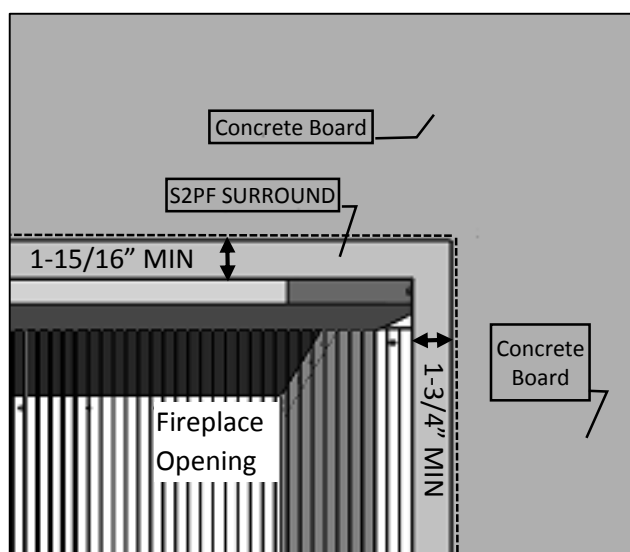


Step 3: Concrete Board with optional Tile Lip shown below. Once wall is completely finished, Surround may be installed.

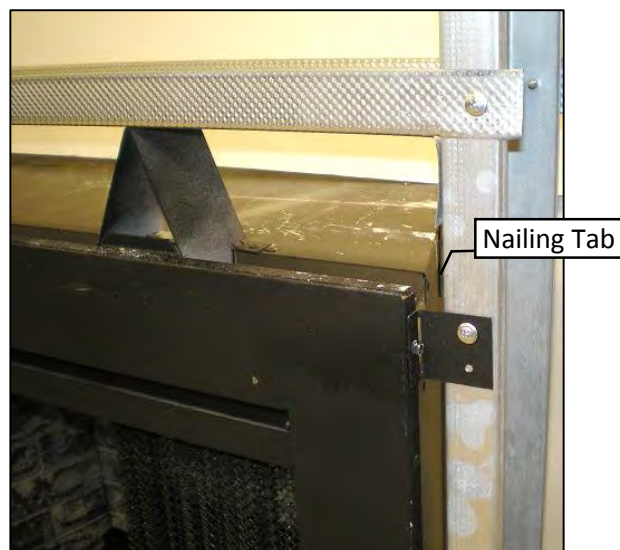


IMPORTANT NOTE! If installing tile, brick, or other non-combustible material around the perimeter of the S2PF2 Surround, Maintain clearances shown below.

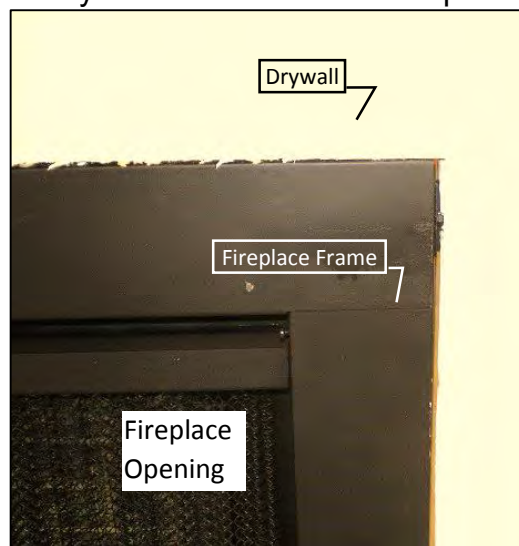
Optional ZCV-TLK Tile Kit is available.
Also See Basic Finishing 4.



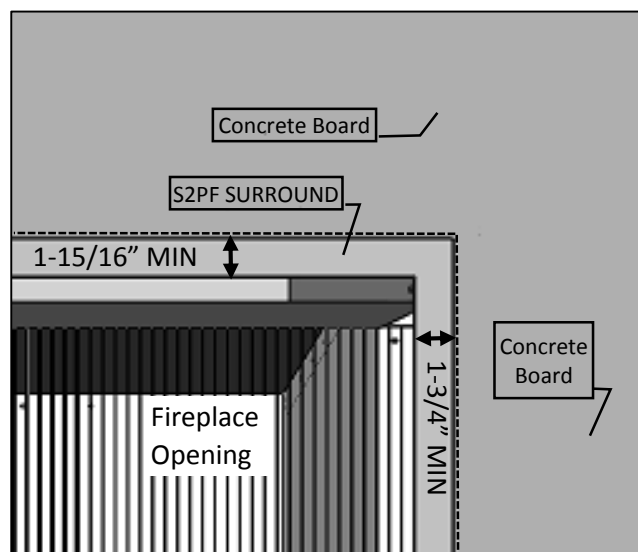
Step One: Frame Fireplace with nailing tabs oriented as shown.



Step Two: Use Drywall to finish face of wall.
NOTE: Drywall will be flush with fireplace face.



Step Three: When installing tile, brick, or other non-combustible material around the perimeter of the S2PF2 Surround, Maintain clearances shown below. You **MUST** Leave 1-3/4" of the face exposed around the fireplace opening on the Bottom and Sides, and 1-15/16" exposed on the top. This is to install and remove the surround.

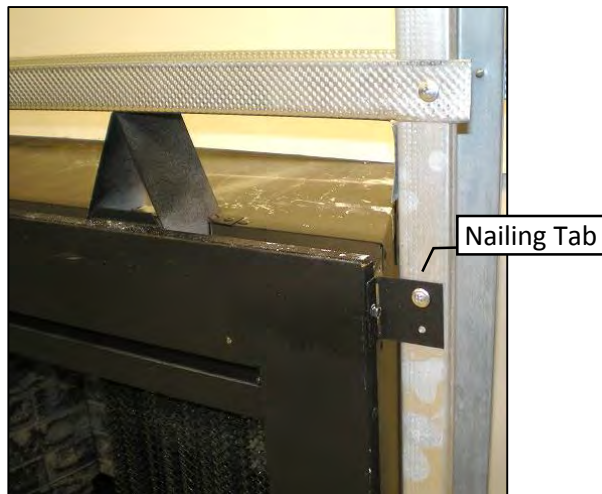


Optional:
 A Tile Lip Kit is Available. Part No. ZCV-TLK

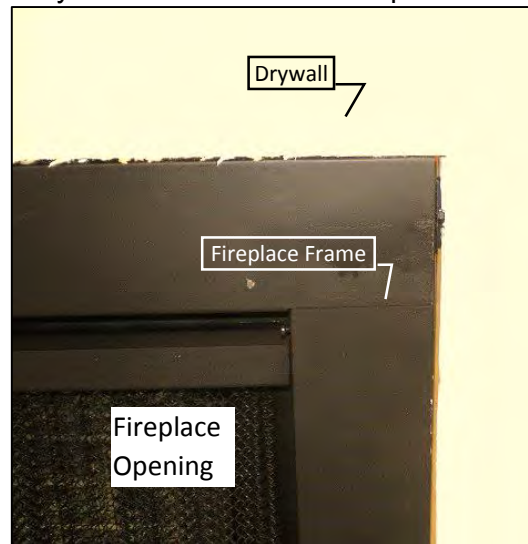


ZVFCV 39 / 42 Basic Finishing 5: Tile Border Behind S2PF Surround (3/4" Maximum Total Thickness)

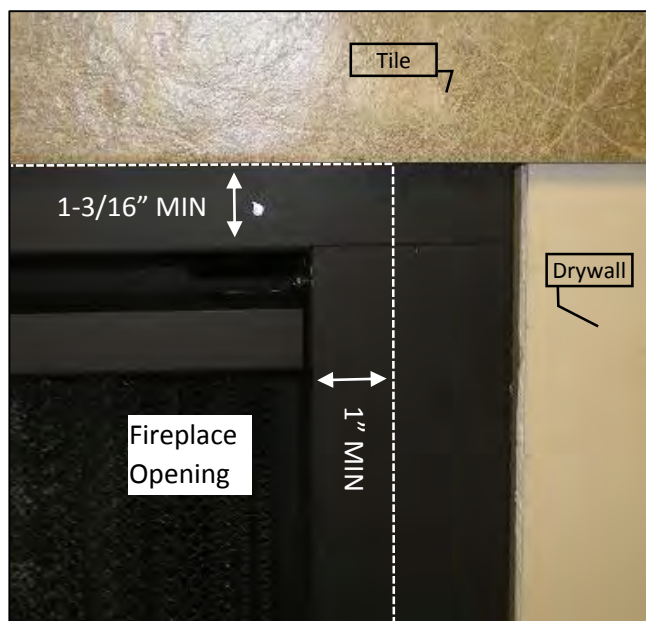
Step One: Frame Fireplace with nailing tabs oriented as shown.



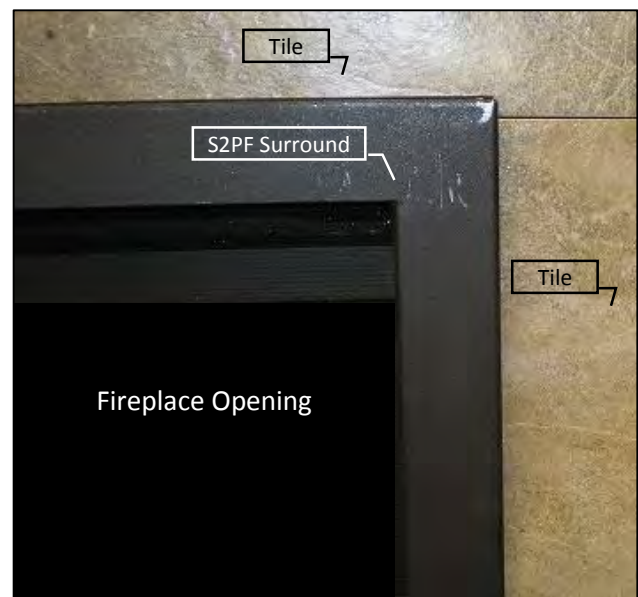
Step Two: Use Drywall to finish face of wall.
NOTE: Drywall will be flush with fireplace face.



Step 3: A tile border may be applied over fireplace face. Maintain clearances below.



Optional:
 A Tile Lip Kit is Available. Part No. ZCV-TLK

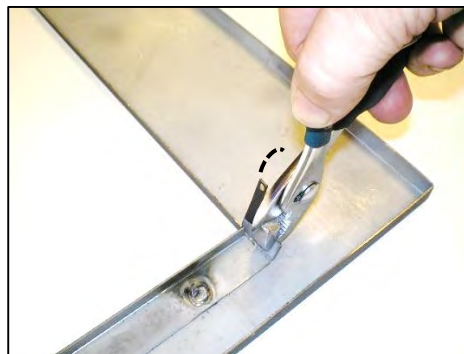
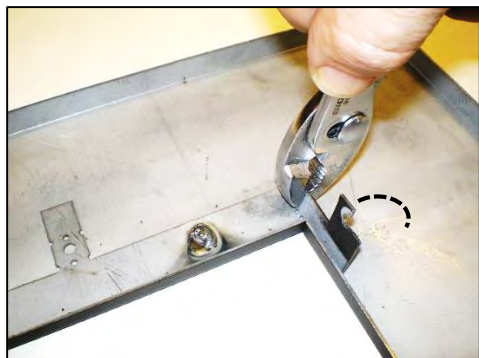


ZVFCV 39 / 42 / 47 S1 / S1PF Surrounds - Installation-

NOTE: Safety Screen is NOT required to use these surrounds for ZVFCV Vent Free Fireplaces.

Each Kit contains surround and [8] DT screws. These screws are not required for ZVFCV Installations.

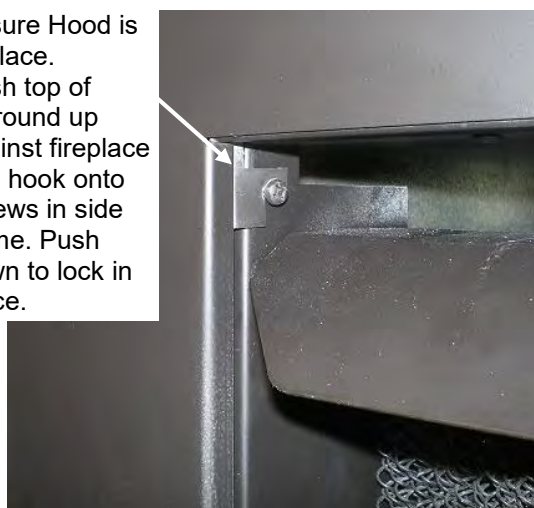
ZCV39S1 / ZCV39S1PF / ZCV39S2PF / ZCV42S1 / ZCV42S1PF



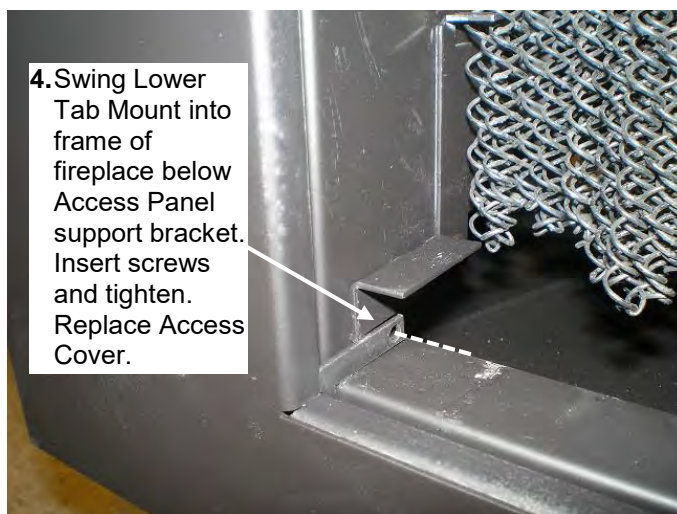
1. Place surround face down on protected surface. Bend Top Hook and Lower Mount Tab up 90° from surface.

2. Back off screws in top inside corners of fireplace Frame until about 1/8" of thread is exposed. Remove Access Cover. Completely remove screws from lower inside corners of fireplace frame.

3. Ensure Hood is in place. Push top of surround up against fireplace and hook onto screws in side frame. Push down to lock in place.



4. Swing Lower Tab Mount into frame of fireplace below Access Panel support bracket. Insert screws and tighten. Replace Access Cover.



⚠ WARNING:

Wait until unit is **COMPLETELY** cool before or attempting to install or remove Surround.

To remove Surround, **WAIT UNTIL FIREPLACE IS COMPLETELY COOL.** Push up at center of Surround Frame and pull bottom away from fireplace.

ZVFCV 39 / 42 / 47 S2PF Surrounds –Installation–

NOTE: Safety Screen is NOT required to use these surrounds for ZVFCV Vent Free Fireplaces.

1. Bend down Screen Tabs on top & Bottom of Surround.



⚠ WARNING:

Wait until unit is **COMPLETELY** cool before or attempting to install or remove Surround.

2. Fold Mount Tabs up 90°



3. Install Upper Hooks and Lower Tabs.

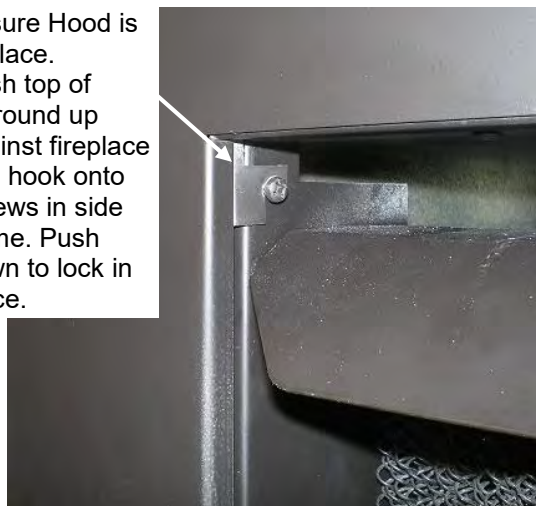


4. Bend Upper Hooks and Lower Tabs slightly inward.

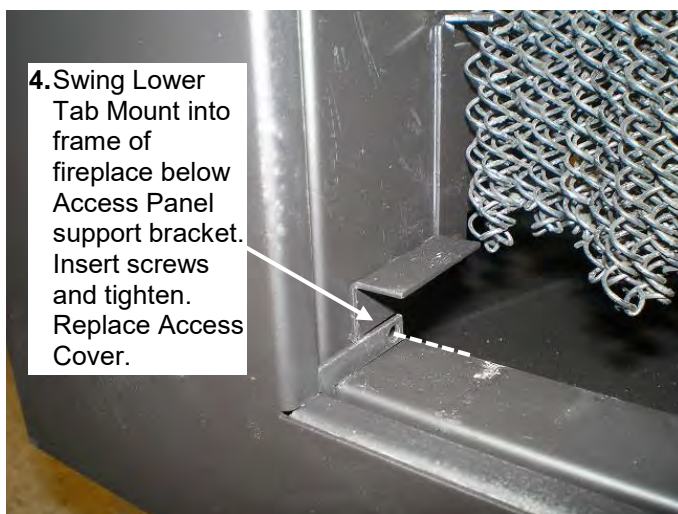


1. Back off screws in top inside corners of fireplace Frame until about 1/8" of thread is exposed. Remove Access Cover. Completely remove screws from lower inside corners of fireplace frame.

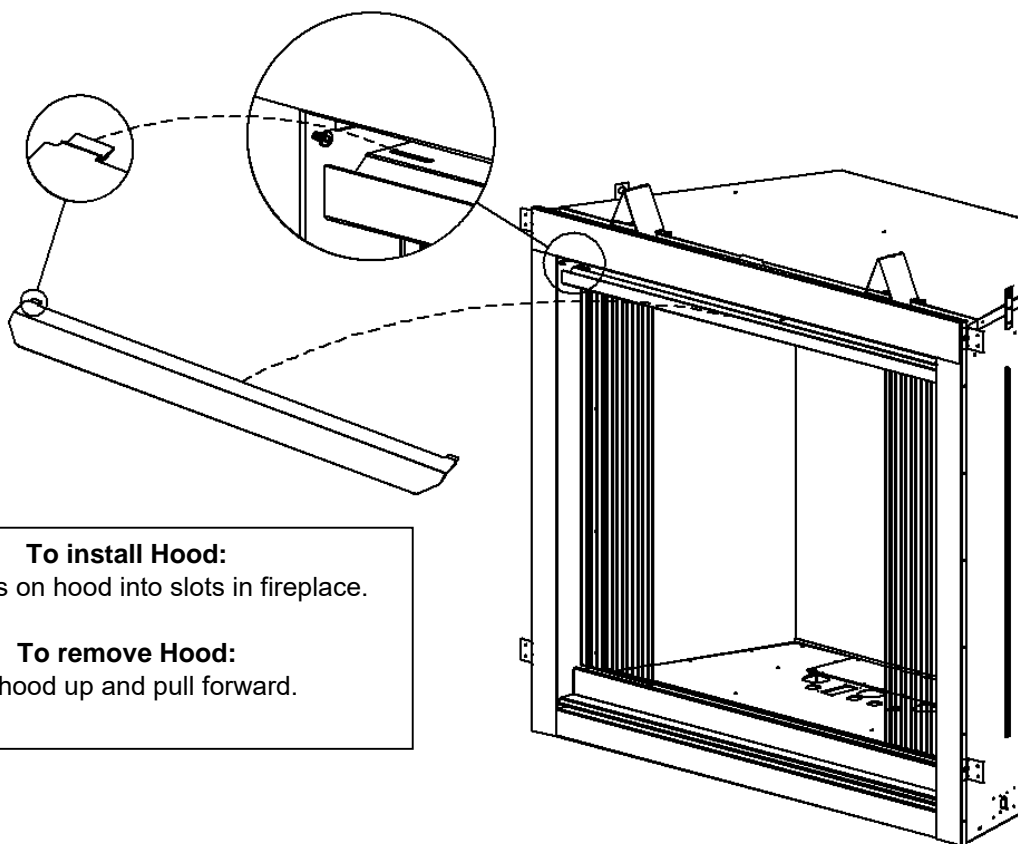
3. Ensure Hood is in place. Push top of surround up against fireplace and hook onto screws in side frame. Push down to lock in place.



4. Swing Lower Tab Mount into frame of fireplace below Access Panel support bracket. Insert screws and tighten. Replace Access Cover.



To remove Surround, **WAIT UNTIL FIREPLACE IS COMPLETELY COOL**. Push up at center of Surround Frame and pull bottom away from fireplace.

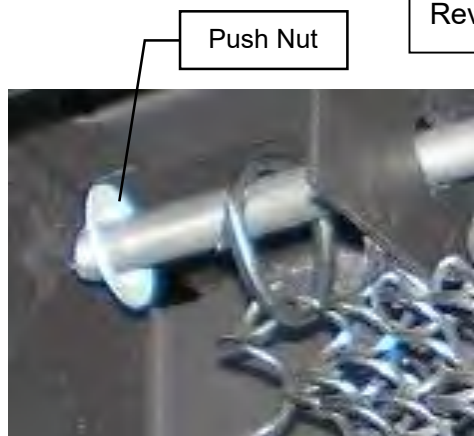


To install Hood:
Insert tabs on hood into slots in fireplace.

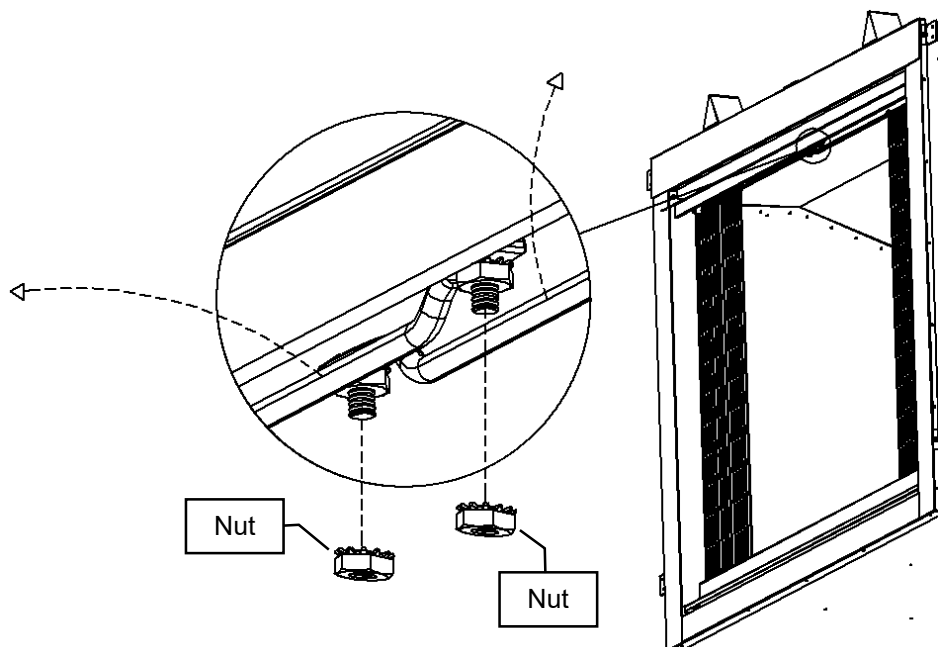
To remove Hood:
Lift hood up and pull forward.

⚠ WARNING: Fireplace screens must be closed and hood must be in place when fireplace is in operation.

To Remove Screens:
Remove nuts holding screen rods in place.
Remove Push Nut if present.
Pull rod out of fireplace and remove screen from rod.
Reverse above steps to install.



Push Nut



Screen Replacement

Unit	Part No.
39ZVFCV	52VF-126
42ZVFCV	47HB-138
47ZVFCV	47VF-126

Before installing any mantels it is important to determine the combustibility of its material(s). There are two types of mantels to consider: Combustible and Non-Combustible.

A **Combustible Mantel** is one that consists of material(s) that may discolor, combust, or lose its integrity in the presence of heat. These types of mantels must strictly conform to the dimensional requirements shown.

Conversely, a **Non-Combustible Mantel** is one that is constructed with material(s) that will not combust. Check your local codes and regulations to determine whether your mantel is combustible or Non-Combustible.

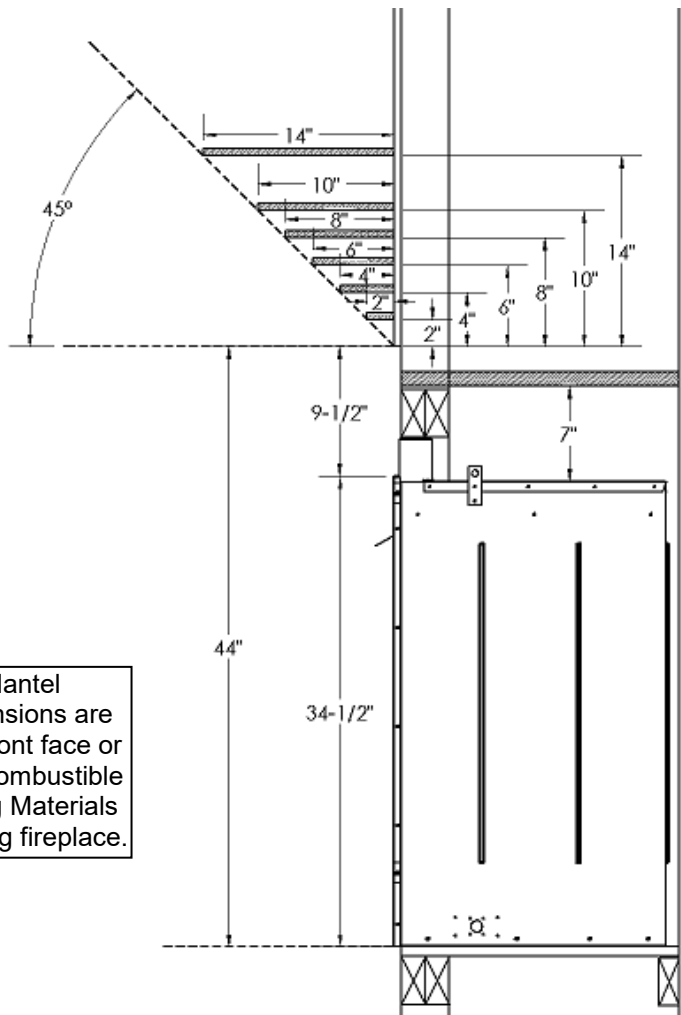
The advantage to Non-Combustible Mantels is that it may extend right up to the tile lip of the fireplace. Combustible mantels must adhere to the dimensional restrictions shown.

⚠ Combustible Objects on Non-Combustible Mantel Warning-

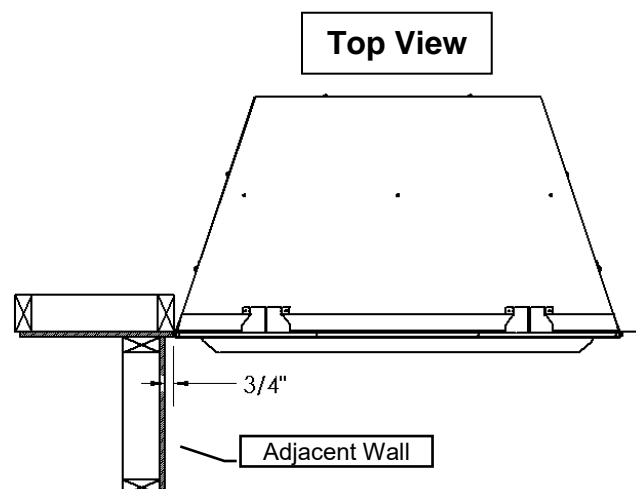
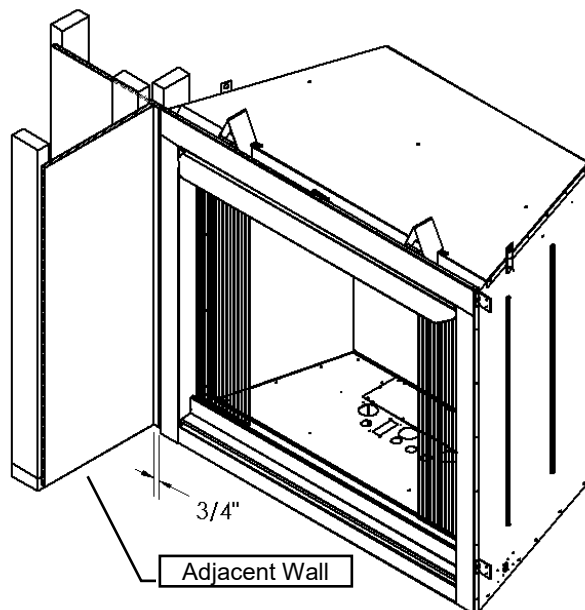
Combustible objects must not be placed on a Non-combustible Mantel unless the mantel meets the dimensional requirements for a Combustible Mantel.

Determine whether your mantel conforms to the requirements of a Combustible Mantel.

Mantel
Dimensions are
from front face or
Non-Combustible
Facing Materials
covering fireplace.



Mantel Leg Clearances

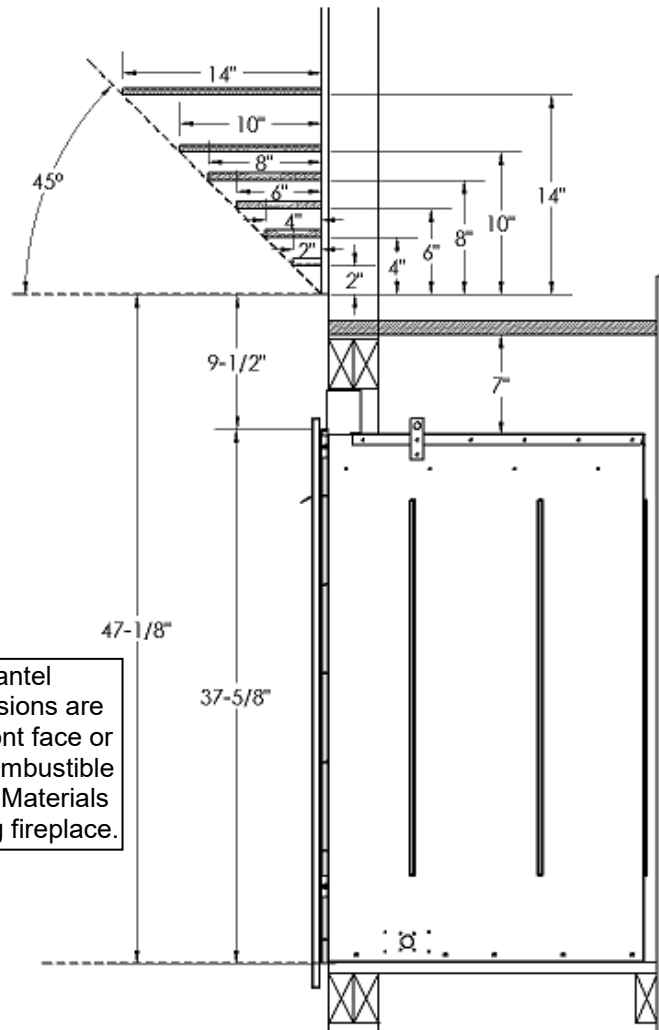


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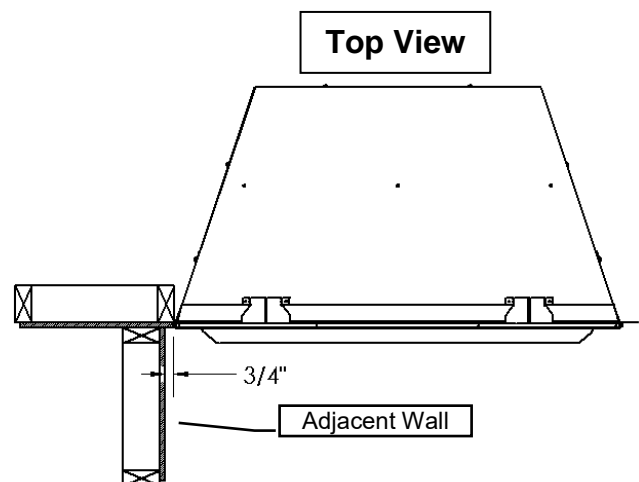
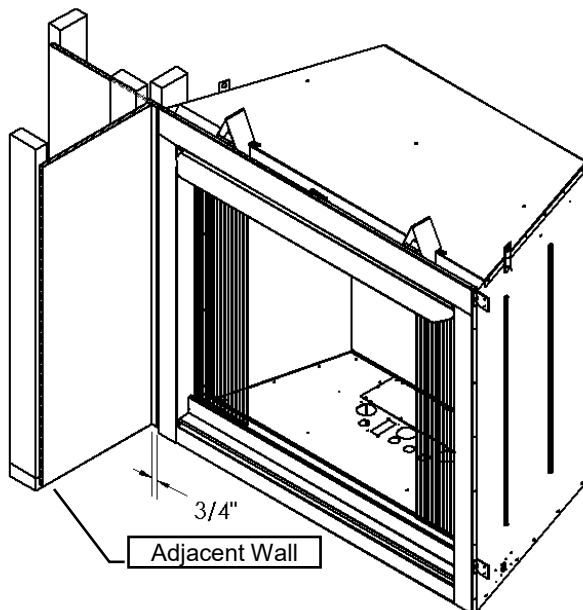
Mantel
Dimensions are
from front face or
Non-Combustible
Facing Materials
covering fireplace.



Combustible Objects on Non-Combustible Mantel Warning-

Combustible objects must not be placed on a Non-combustible Mantel unless the mantel meets the dimensional requirements for a Combustible Mantel. Determine whether your mantel conforms to the requirements of a Combustible Mantel.

Mantel Leg Clearances

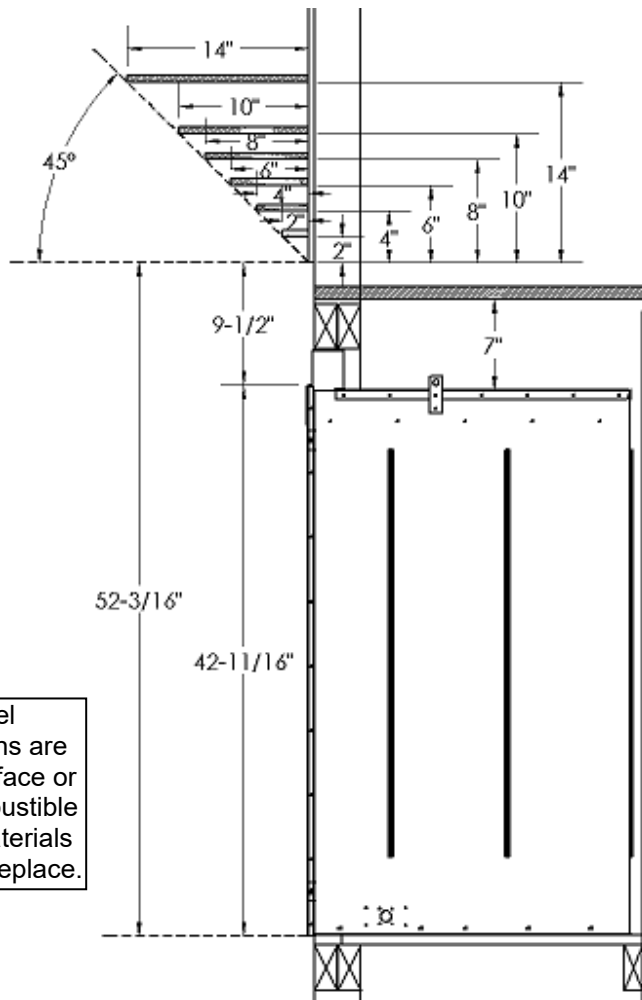


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Mantel
Dimensions are
from front face or
Non-Combustible
Facing Materials
covering fireplace.

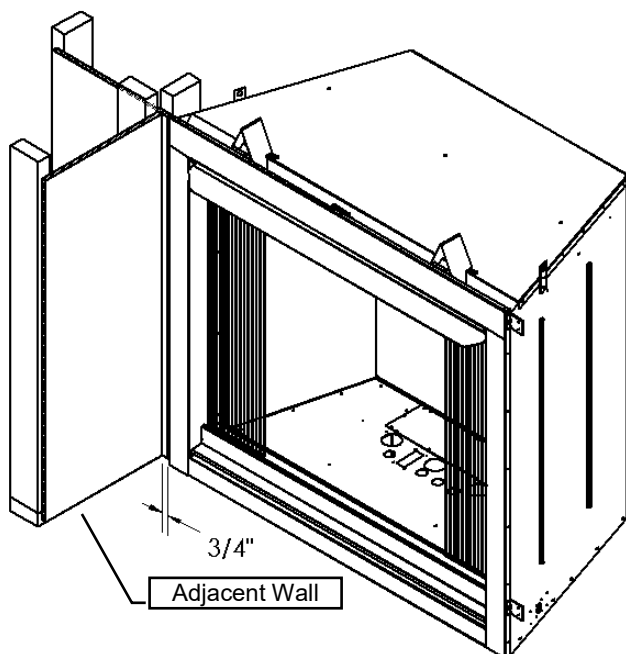


Combustible Objects on Non-Combustible Mantel Warning-

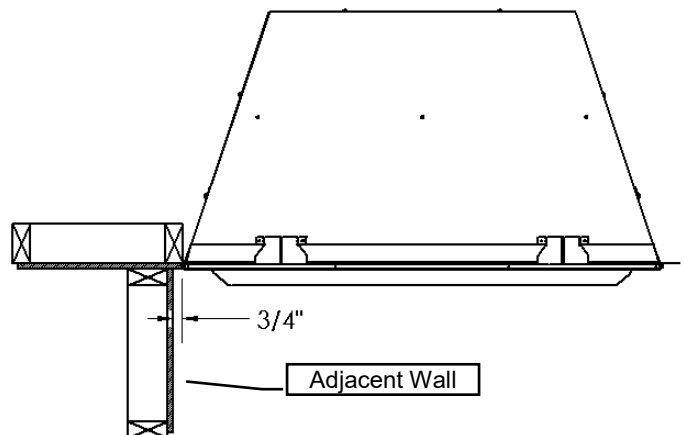
Combustible objects must not be placed on a Non-combustible Mantel unless the mantel meets the dimensional requirements for a Combustible Mantel.

Determine whether your mantel conforms to the requirements of a Combustible Mantel.

Mantel Leg Clearances



Top View



AIR FOR COMBUSTION AND VENTILATION

Today's homes are built more energy efficient than ever. New materials, increased insulation, and new construction methods help reduce heat loss in homes. Home owners weather strip and caulk around windows and doors to keep the cold air out and the warm air in. During heating months, home owners want their homes as airtight as possible.

WARNING

This firebox shall not be installed in a confined space unless provisions are provided for adequate combustion and ventilation air. Read the following instructions to insure proper fresh air for this and other fuel-burning appliances in your home.

While it is good to make your home energy efficient, your home needs to breathe. Fresh air must enter your home. All fuel-burning appliances need fresh air for proper combustion and ventilation.

Exhaust fans, fireboxes, clothes dryers, and fuel burning appliances draw air from the house to operate. You must provide adequate fresh air for these appliances. This will insure proper venting of vented fuel-burning appliances.

PROVIDING ADEQUATE VENTILATION

The following are excerpts from *National Fuel Gas Code, NFPA 54/ANSI Z223.1, Section 5.3, Air for Combustion and Ventilation*:

All spaces in homes fall into one of the three following ventilation classifications:

1. Unusually Tight Construction, 2. Unconfined Space, 3. Confined Space.

Unusually Tight Construction

The air that leaks around doors and windows may provide enough fresh air for combustion and ventilation. However, in building of usually tight construction, you must provide additional fresh air.

Unusually tight construction is defined as construction where:

- a. walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of one perm (6 x 10⁻¹¹ per pasc-second) or less with openings gasketed or sealed and
- b. weather stripping has been added on openable windows and doors and
- c. caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for plumbing, electrical, and gas lines, and at other openings.

If your home meets all of the three criteria above, you must provide additional fresh air.

See *Ventilation Air From Outdoors*.

Confined and Unconfined Space

The National Fuel Gas Code (*ANSI Z223.1, 1992 Section 5.3*) defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 btu per hour (4.8 m³ per kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed*, through openings not furnished with doors, are considered a part of the unconfined space.

*Adjoining rooms are communicating only if there are doorless passageways or ventilation grills between them.

DETERMINING AIR FLOW FOR FIREBOX LOCATION

Determining if You Have a Confined or Unconfined Space

Use the work sheet on the next page to determine if you have a confined or unconfined space.

Space: Includes the room in which you will install firebox plus any adjoining rooms with doorless passageways or ventilation grills between the rooms.

AIR FOR COMBUSTION AND VENTILATION Cont.

1. Determine the volume of the space (length x width x height).

Length x Width x Height = _____ cu. ft. (volume of space)

Example: Space size 22ft. (length) x 18 ft. (width) x 8 ft. (ceiling height) = 3168 cu. ft. (volume of space)

If additional ventilation to adjoining room is supplied with grills or openings, add the volume of these rooms to the total volume of the space.

2. Divide the space volume by 50 cubic feet to determine the maximum Btu/Hr the space can support.
 _____ (volume of space) ÷ 50 cu. ft. = 63.3 or 63,300 (maximum Btu/Hr the space can support)
3. Add the Btu/Hr of all fuel burning appliances in the space.

Vent-free firebox	_____ Btu/Hr
Gas water heater*	_____ Btu/Hr
Gas furnace	_____ Btu/Hr
Vented gas heater	_____ Btu/Hr
Gas firebox logs	_____ Btu/Hr
Other gas appliances*	+ _____ Btu/Hr
Total	= _____ Btu/Hr

Example:	Gas water heater	40,000 Btu/Hr
	Vent-free firebox with log heater	+ 39,000 Btu/Hr
	Total	= 79,000 Btu/Hr

* Do not include direct-vent gas appliances. Direct-vent draws combustion air from the outdoors and vents to the outdoors.

4. Compare the maximum Btu/Hr the space can support with the actual amount of Btu/Hr used.

_____ Btu/Hr (maximum the space can support)

_____ Btu/Hr (actual amount of Btu/Hr used)

Example: 63,300 Btu/Hr (maximum the space can support)
 79,000 Btu/Hr (actual amount of Btu/Hr used)

The space in the above example is a confined space because the actual Btu/Hr used is more than the maximum Btu/Hr the space can support. You must provide additional fresh air. Your options are as follows:

- A. Rework work sheet, adding the space of an adjoining room. If the extra space provides an unconfined space, remove door to adjoining room or add ventilation grills between rooms, See *Ventilation Air from Inside Building*.
- B. Vent room directly to the outdoors. See *ventilation Air from Outdoors*.
- C. Install a lower Btu/Hr firebox, if lower Btu/Hr size makes room unconfined.

If the actual Btu/Hr used is less than the maximum Btu/Hr the space can support, the space is an unconfined space. You will need no additional fresh air ventilation.

WARNING

If the area in which the firebox and gas log heater may be operated is smaller than that defined as an unconfined space, provide adequate combustion and ventilation air by one of the methods described in the National Fuel Gas Code, ANSI Z223.1, 1992, Section 5.3.

AIR FOR COMBUSTION AND VENTILATION Cont.

VENTILATION AIR FROM INSIDE BUILDING

This fresh air would come from an adjoining unconfined space. When ventilating to an adjoining unconfined space, you must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor on the wall connecting the two spaces. You can also remove door into adjoining room. Follow the *National Fuel Gas Code NFPA 54/ANSI Z223.1, Section 5.3, Air for Combustion and Ventilation* for required size of ventilation grills or ducts.

WARNING

Rework worksheet, adding the space of the adjoining unconfined space. The combined spaces must have enough fresh air to supply all appliances in both spaces.

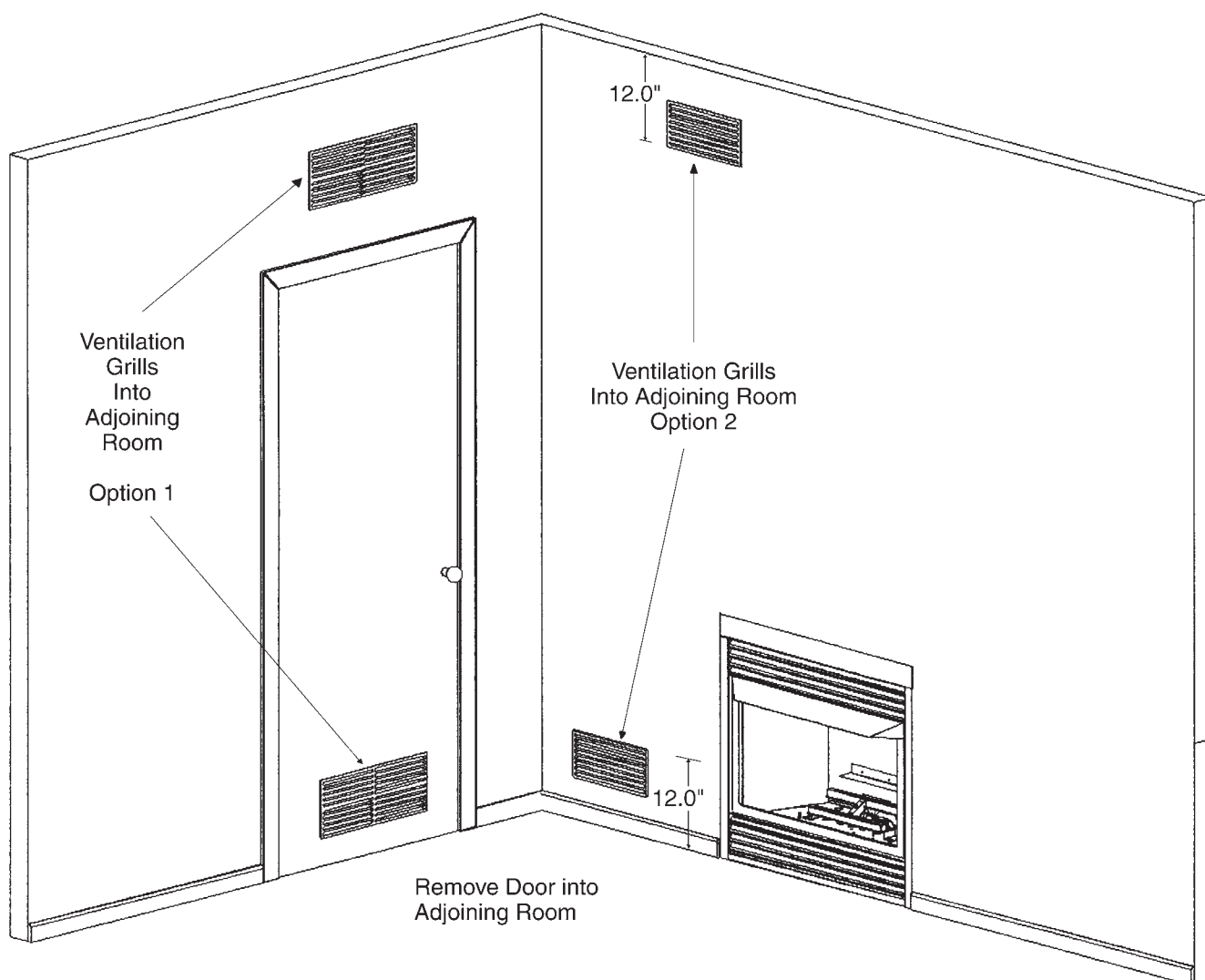


FIGURE 5 - Ventilation Air from Inside Building

AIR FOR COMBUSTION AND VENTILATION Cont.

Ventilation Air From Outdoors

Provide extra fresh air by using ventilation grills or ducts. You must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor. Connect these items directly to the outdoors or spaces open to the outdoors. These spaces include attics and crawl spaces.

IMPORTANT: Do not provide openings for inlet or outlet air into attic if attic has a thermostat-controlled power vent. Heated air entering the attic will activate the power vent.

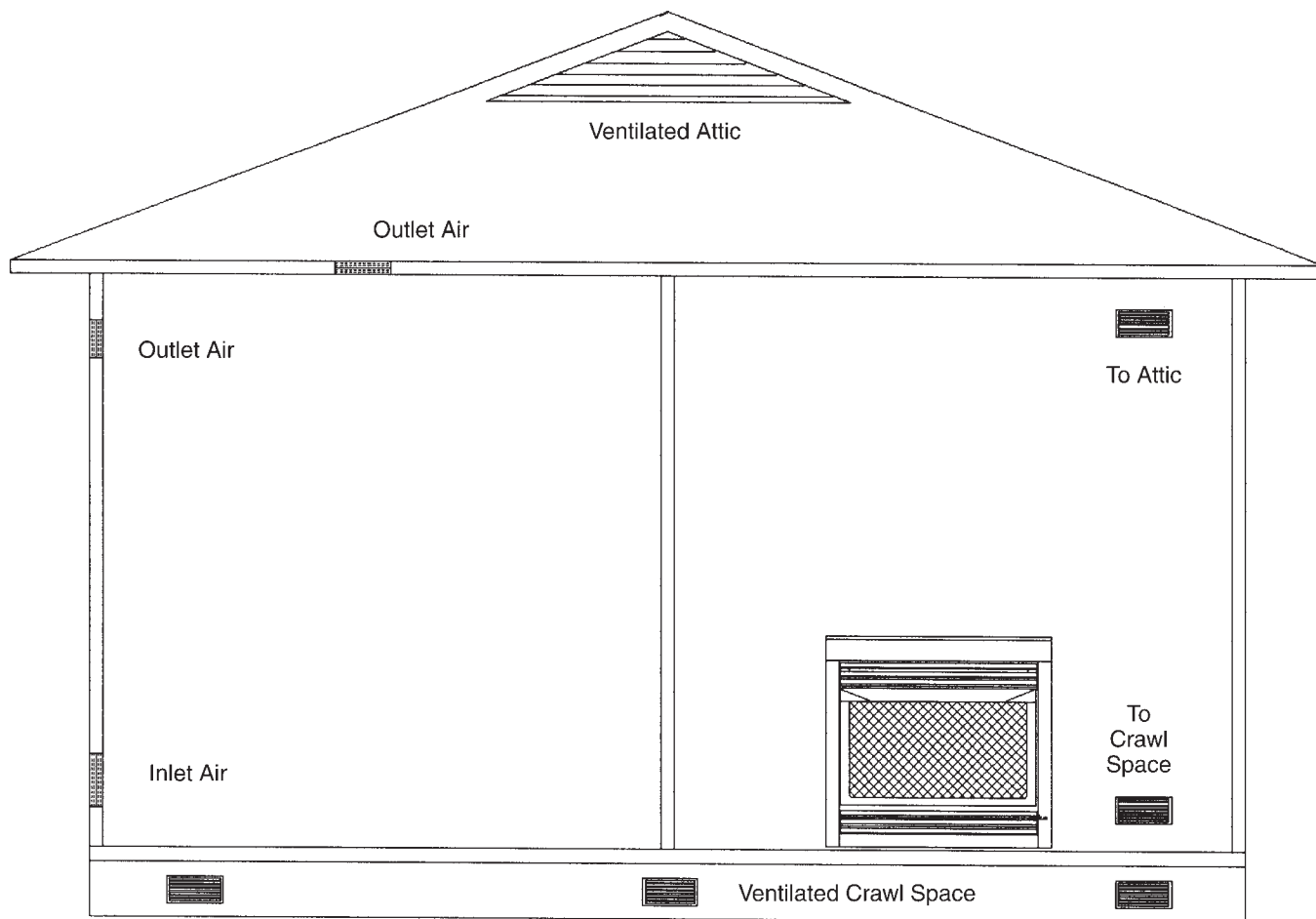


FIGURE 6 - Ventilation Air from Outdoors

NOTE: Thermodisc will NOT be used. See diagram below.

⚠ WARNING

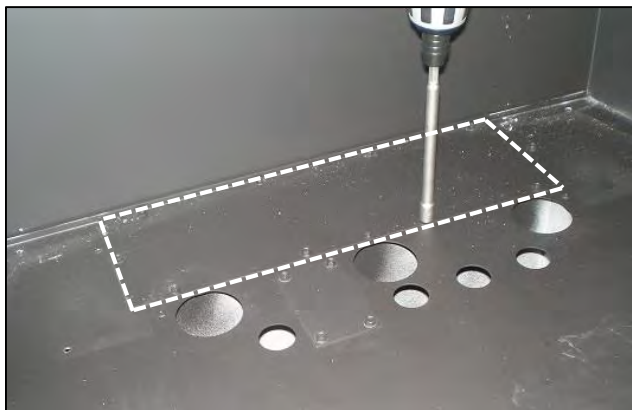
-Electrical Grounding Instructions-

This appliance is equipped with a three prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this.

⚠ WARNING

Before Servicing

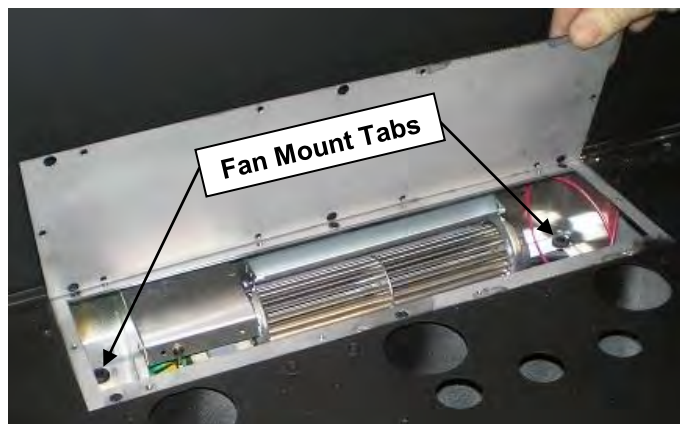
1. Ensure all power supply is shut off.
2. Label all wires prior to disconnecting when servicing control. Wiring errors can cause improper and dangerous operation.
3. For fan servicing: Vacuum and clean lint/dirt build-up on the fan blades and motor.



1. Remove Fan Access Cover from back of firebox.



2. Insert Fan Assembly through opening.

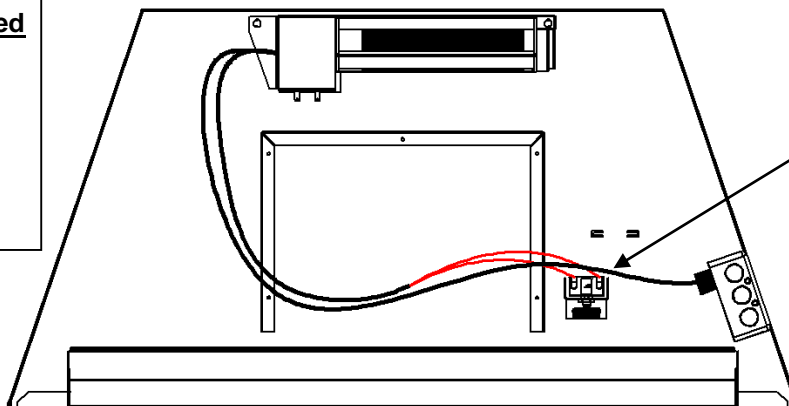


3. Set Fan Housing onto Mount Tabs.



4. Route wires under Firebox to right side of Fireplace.

Thermodisc is NOT used



Connect leads from Blower directly to leads from Fan Speed Control.

Use extra male connector supplied in Z46FK Fan Kit.

Split Receptacle- Switch Control Outside of Fireplace

If you wish to have a control switch outside of the fireplace for one side of the receptacle and you require a constant source of AC power inside the unit for another accessory such as lights or an IPI valve system, follow one of the procedures below.

⚠ WARNING

A qualified electrician must connect electrical wiring to junction outlet for built-in installation.

Follow all codes.

⚠ WARNING

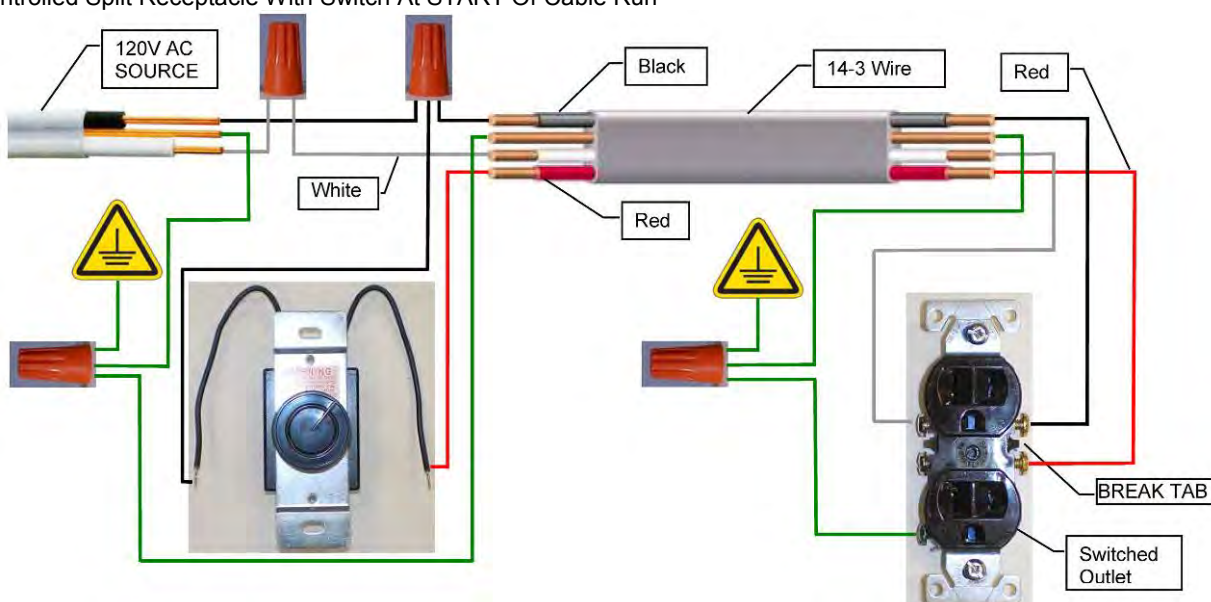
Electrical Grounding Instructions –
This appliance is equipped with a three – pronged (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle.

⚠ WARNING

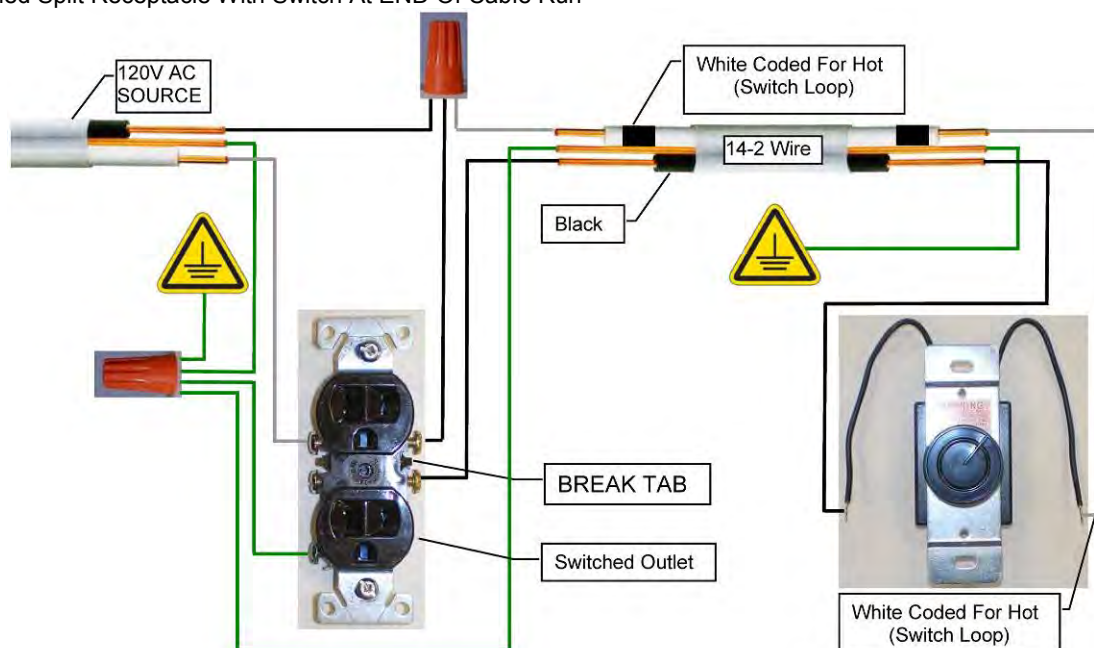
Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation and servicing.

⚠ Caution: Electrical installation to be done by a qualified installer. All wires must be connected and grounded in accordance with CSA Standard C22.1- Canadian Electrical Code part 1 or with the National Electrical Code, ANSI /NFPA 70 (latest edition) and /or in accordance with local codes.

Switch Controlled Split Receptacle With Switch At START Of Cable Run



Switch Controlled Split Receptacle With Switch At END Of Cable Run

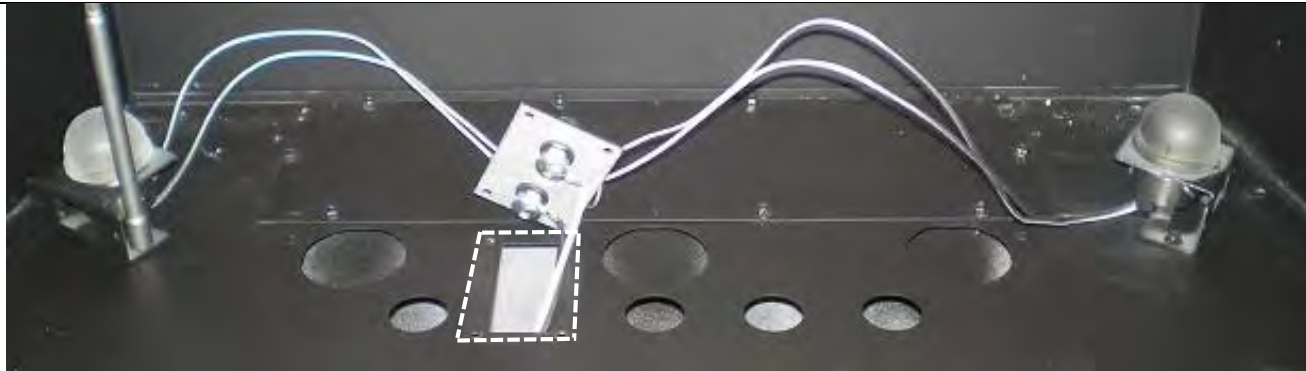
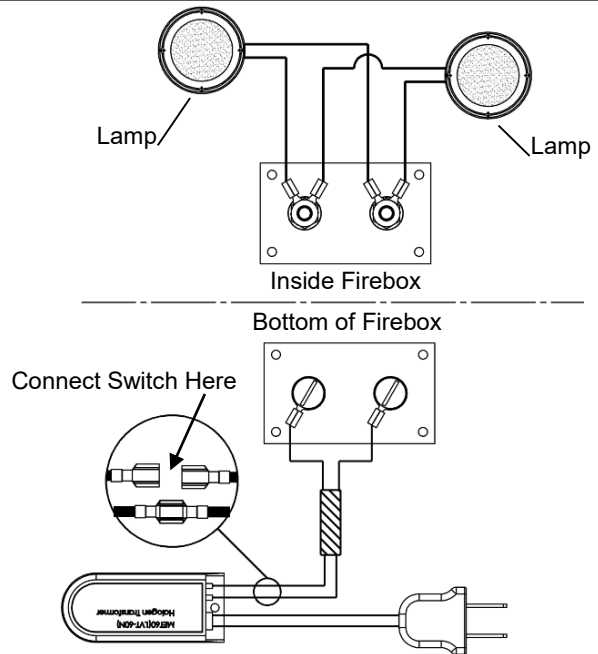
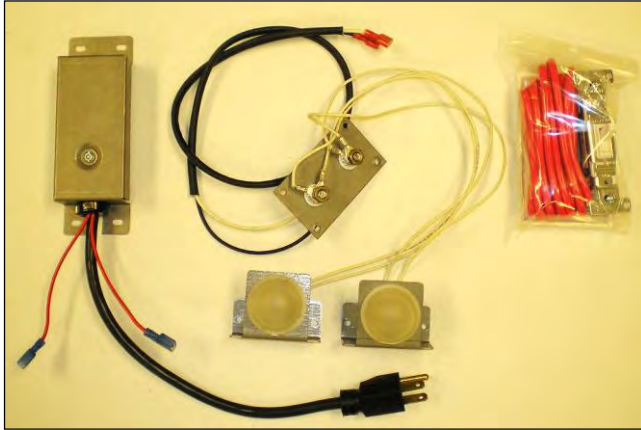


ULK2 Universal Light Kit -Optional Accent Lighting Kit- ZVFCV39 / 42 / 47

Please follow the current ANSI/NFPA 70 National Electrical Code in the USA and CAN/CSA C22.1 Canadian National Electrical Code in Canada.

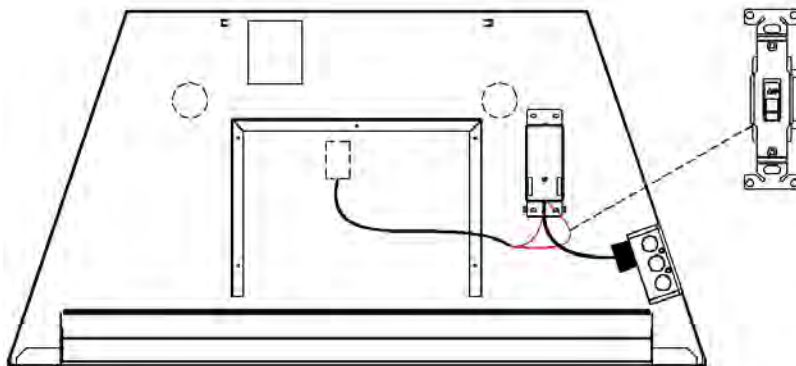
Contents of Kit:

- [2] 12V Halogen Lamps
- Lamp Plate with Insulated Studs & wiring
- 12VAC Transformer with 3 prong plug & wire connectors
- Light Switch & Cover Plate c/w 10ft wire c/w [1] Loose Female & [1] Loose Male wire connector



STEP 1: Insert wires through access hole in firebox. Fasten cover plate and lamps in place.

STEP 2: Connect switch wires between lamp wire and transformer (see drawings). Connect remaining lamp wire to transformer. Transformer can then be plugged in and the housing fastened to the bottom of the fireplace using mount tabs.



ZCV39RL / ZCV42RL Brick Liner Installation for ZVFCV39 & 42

⚠ WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.



Step One: Start with a clean, empty firebox.



Step Two: Place Back Liner against back wall of firebox.



Step Three: Tilt and slide left and right Side Liners into place.



Step Four: Fix Side Liners in place using Liner Retainer Clips.

Step Five:
Installation is
complete.

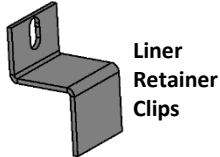


ZCV48RLT / ZCV48RLH / MQZCV48RLF Brick Liner Installation for ZVFCV47

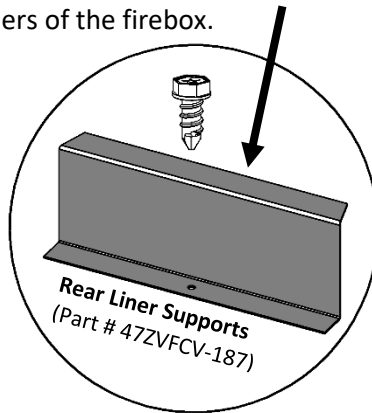
⚠ WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

Before you begin: Ensure that the [2] **Rear Liner Supports** (Part # 47ZVFCV-187) are installed at the rear corners of the firebox.

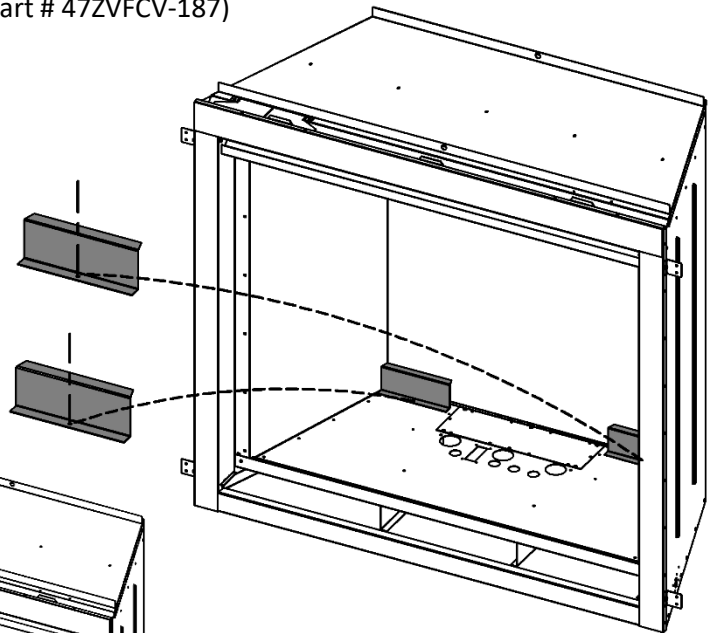
Step One: Remove the [2] **Liner Retainer Clips** (see photo below).



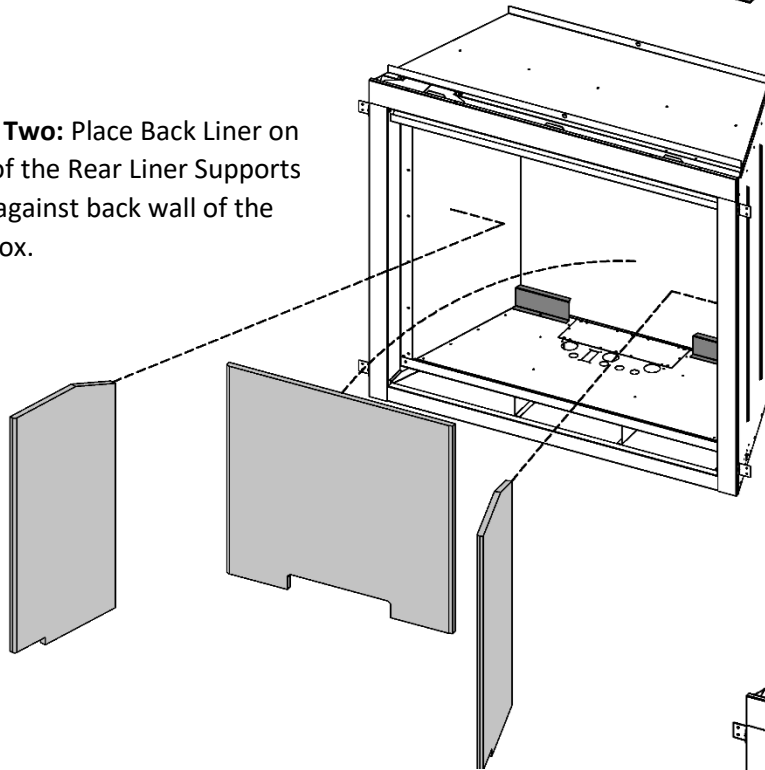
Liner Retainer Clips



Rear Liner Supports
(Part # 47ZVFCV-187)

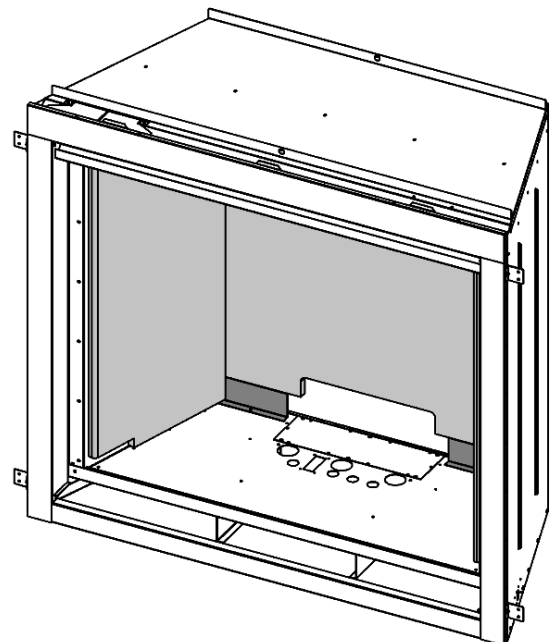


Step Two: Place Back Liner on top of the Rear Liner Supports and against back wall of the firebox.



Step Three: Tilt and slide left and right Side Liners into place.

Step Four: Fix Side Liners in place using Liner Retainer Clips.



Step Five: Installation is complete.

INSTALLING – Gas Line

INSTALLING GAS LINE

Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, and / or nausea. If you have these signs, the heater may not be working properly. **Get fresh air at once!** Turn off gas appliance. Have appliance serviced. Some people (such as pregnant women, persons with heart or lung disease, persons with anemia and those at high altitudes) are more affected by carbon monoxide than others. Make certain you read and understand all warnings. Place Burner Base / Grate Assembly in center of firebox and connect flexible gas line to incoming black iron pipe gas line.

Do not connect appliance before pressure testing gas piping. Damage to gas valve may result and an unsafe condition may be caused.

Prepare incoming black iron gas line with **Teflon tape** or **pipe joint compound** (check with local codes about the use of Teflon tape). Compounds used on threaded joints of gas piping shall be resistant to the action of Liquefied Petroleum (LP or Propane) and should be applied lightly to ensure excess sealant does not enter the gas line.

Complete your gas installation by connecting incoming gas line to regulator. Secure all joints tightly with wrench but **do not over-tighten**. If a flexible gas line is used, take care not to kink connector. The burner pressure is controlled by the
(cont'd. on next page)

DANGER

**CARBON MONOXIDE POISONING
MAY LEAD TO DEATH!**

WARNING

Any changes to this heater or its controls can be dangerous.

NOTICE

Installation and repair should be done by a qualified service person well trained in the installation of such appliances. You will also need a building permit from your local Building Commissioner before installing this appliance, otherwise your insurance company may not cover this appliance.

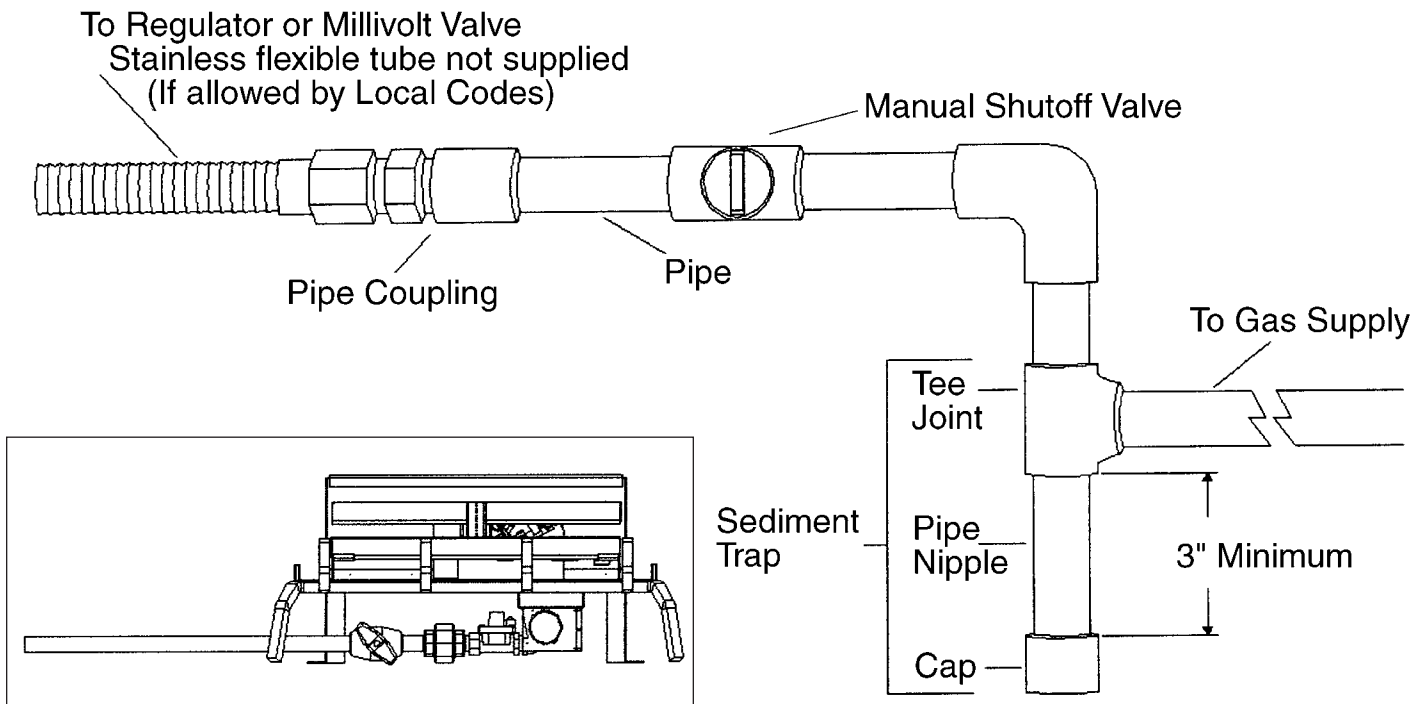


FIGURE 9, 9a – Gas line and manual shutoff valve

INSTALLING – Gas Line Cont.



CAUTION

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

NOTICE

A qualified gas appliance installer must connect the fireplace to the gas supply. Consult all local codes.



CAUTION

Use new black pipe only. Internally tinned copper tubing can be used in some areas when permitted by local codes. Only use pipe of 1/2" or greater diameter to allow full gas volume to heater. Excessive pressure loss will occur if the pipe is too small.

A manual shutoff valve, union and plugged 1/8" NPT pressure tap pointer must be installed upstream of the heater.

A sediment trap must be installed upstream of the heater to prevent moisture and contaminants from passing through the pipe to the heater controls and burners. Failure to do so could prevent the heater from operating reliably.

regulator. Check pressure at the pressure test point, which is located on the side of the gas control near the pilot outlet. Make sure that the pressure tap is completely closed after checking gas pressure. The pressure should be checked with the appliance burning and the control set on high.

IMPORTANT: Loosen the pipe adapter on the flex tube before installing to the system piping.

CHECK GAS TYPE: The gas supply must be the same as stated on the heater's rating plate. If the gas supply is different, Do Not Install the heater. Contact your dealer for the correct model.



CAUTION

All gas piping and connections must be tested for leaks after installation is completed. To test, turn gas valve on, then apply a soap and water solution to all connections and joints. If bubbles appear, leak can be detected and corrected. **Never use an open flame for leak testing. Never operate any appliance if a leak is detected!**

For the state of Massachusetts a **T-handle gas shut-off valve** must be used on a gas appliance. This T-handle gas shut-off valve must be listed and approved by the state of Massachusetts. This is in reference to the state of Massachusetts state code CMR238.

Installing Burner Systems

Installing Burner Systems into Firebox

The Zero Clearance Fireplaces ZVFCV36 / 42 / 47 have the option of being installed with either the GLVF24 Vent Free Burner Systems or other approved vent free burner systems.

Warning: Failure to position parts in accordance with these diagrams or failure to use only part specifically approved with this heater may result in property damages or personal injury.

Installing GLVF24 Vent Free Burner System with grate:

1. If using optional blower it is recommended to install fan now to make installation easier. Refer to **Installation of Optional Fan** section.
2. Follow instructions included with GLVF24 Burner System with grate.
3. Connect gas supply to the burner system. Refer to **Installing Gas Line** section.
4. Proceed to **Log Placement**.

If using another manufacturer's burner system and logs, follow manufacturer's installation instructions.

⚠ WARNING

Failure to keep primary air openings clear, may result in sooting and property damage.

⚠ WARNING

Turn off heater and allow to cool before cleaning. Only a qualified service technician should service and repair appliance.

Cleaning and Servicing of Burner / ODS Pilot

It is recommended to annually inspect and clean the unit to prevent malfunction and / or sooting. This operation should be performed by your dealer or a qualified technician.

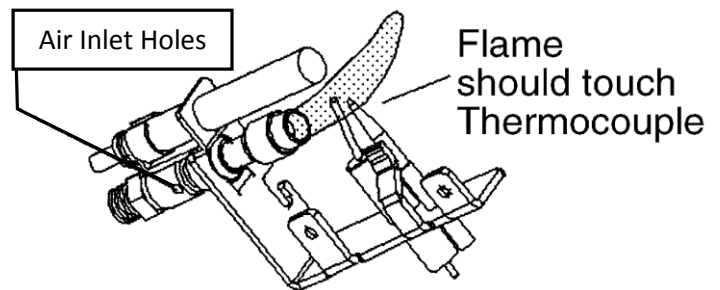
Remove log set, handling carefully by holding gently at each end. (Refer to Log Placement)
Gloves are recommended to prevent skin irritation from ceramic.

Annual Cleaning / Inspection

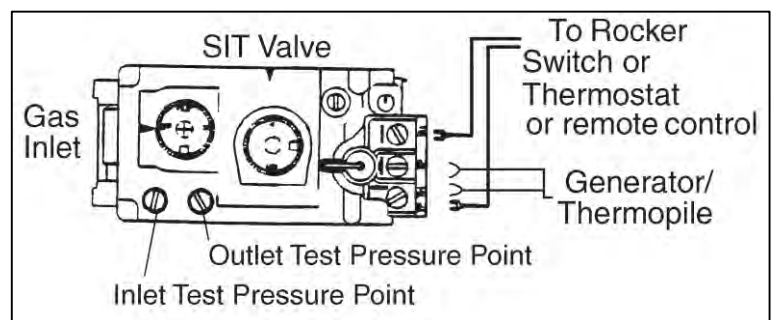
- Do not use cleaning fluids to clean logs or any part of the heater.
- Use a soft bristle brush or a vacuum with brush attachment.
- Vacuum loose particles and dust from burner ports, valve and blower compartments.
- Vacuum any accumulation of lint from primary mixing tube.
- Inspect ODS pilot for operation, accumulation of lint at the air inlet holes.
- Verify flame pattern and log placement for proper operation.
- Verify that all ports ignite and cross over smoothly from rear to front burner.

⚠ CAUTION

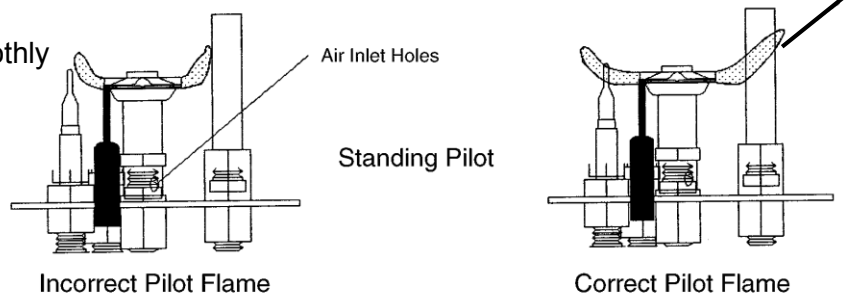
Never use a wire, needle, or similar object to clean ODS / Pilot. This can damage ODS / Pilot.



Millivolt Pilot - ODS



Flame should touch thermocouple and thermopile



INSTALLING – Log Grate

ATTACHING LOG GRATE TO FIREPLACE BASE

1. Position log grate into fireplace and mark screw locations on each side of mounting bracket.
2. Remove grate assembly, drill 2 holes at the marked locations.
3. Attach grate assembly to fireplace base. (Screws not provided.)
4. Connect to gas supply.

INSTALLATION OF LOGF24 LOGSET

1. Place main log on locating pins on burner grate bottom.
2. Place crossover log on locating pins on top of rear main log.
3. Position front log flat surface up to main log.

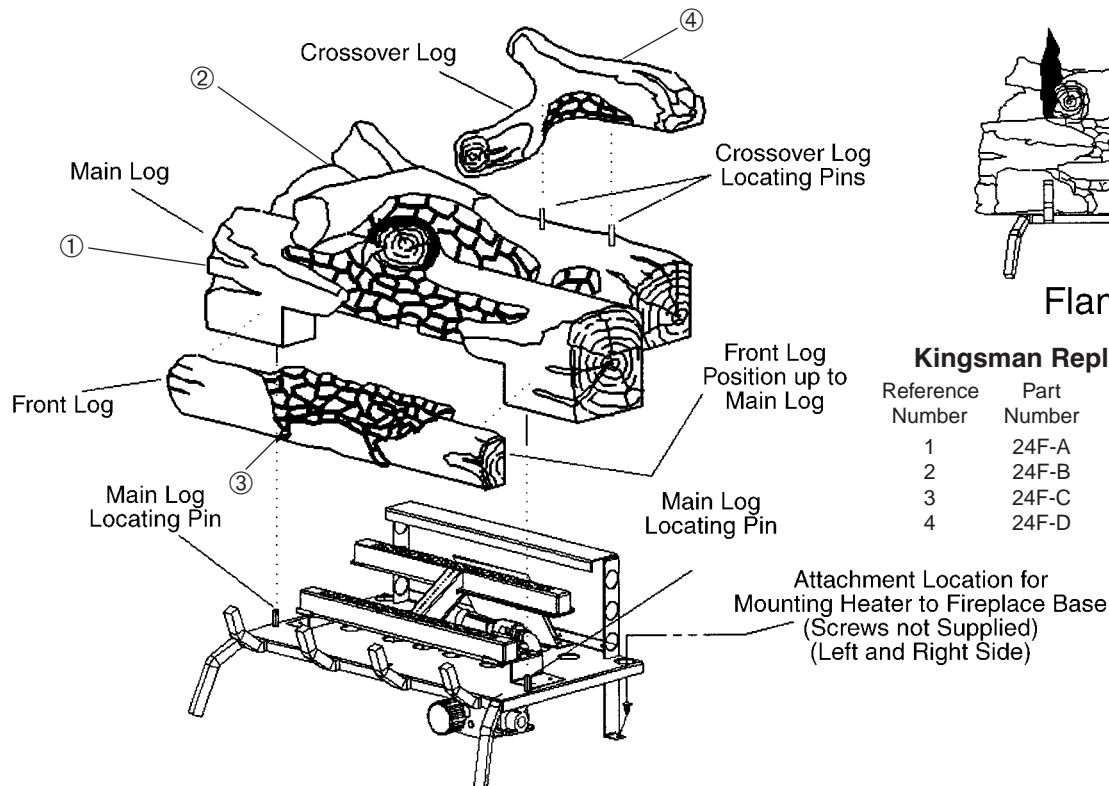


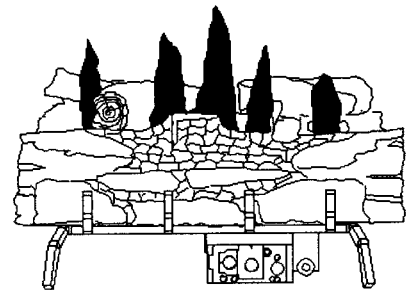
FIGURE 12 – Log Placement

⚠ WARNING

You must secure this heater to fireplace base, or heater will move when you adjust controls. Moving heater may cause a gas leak and may result in property damage or personal injury.

⚠ WARNING

Failure to position the parts in accordance with the diagrams or failure to use only parts specifically approved with this heater may result in property damage or personal injury.



Flame Pattern

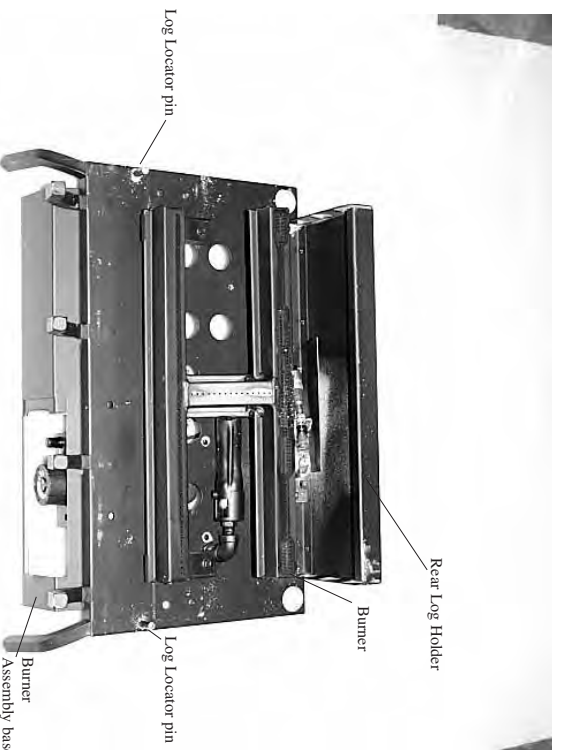
Kingsman Replacement Log Listing

Reference Number	Part Number	Description
1	24F-A	Front Main Log A, LOGF24
2	24F-B	Rear Main Log B, LOGF24
3	24F-C	Front Log C, LOGF24
4	24F-D	Crossover Log D, LOGF24

⚠ WARNING

The positioning of the logs is critical for the safe and clean operation of this heater. Sooting and other problems can occur if the logs are not properly and firmly positioned in the heater. Never add additional logs or embellishments such as pine cones, vermiculite, volcanic rock or rock wool to the heater.

LOGF18 PLACEMENT GUIDELINES



Step (1) Remove logs from carton and inspect each log.



Step (3) Locate hole on the underside of Log D. Place log over front burner and locator pin then lower into position (as illustrated).



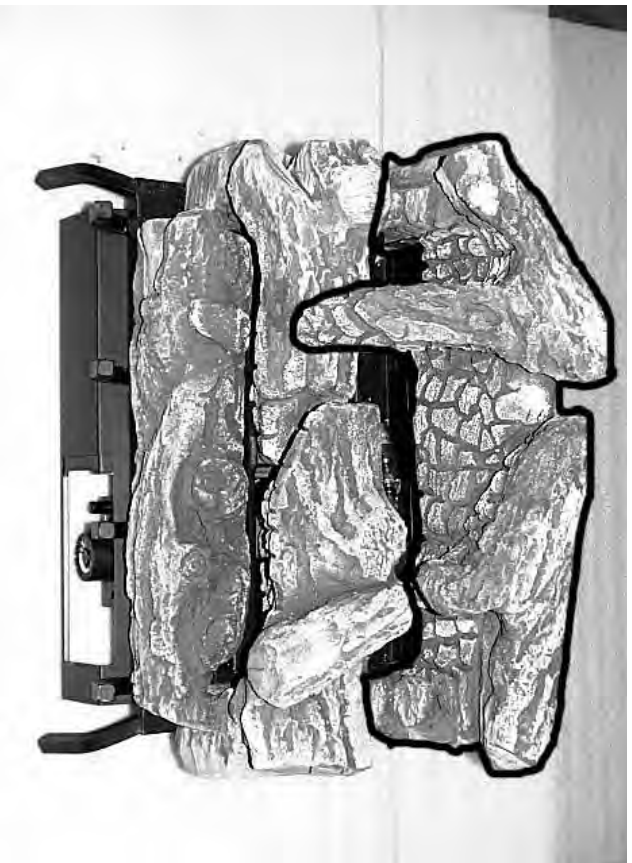
Step (2) Locate hole on the underside of Log C. Place log over front burner and locator pin then lower into position (as illustrated).



Step (4) Using Log B, place flat surface of the log onto burner assembly base. Push log up to Log C & D.

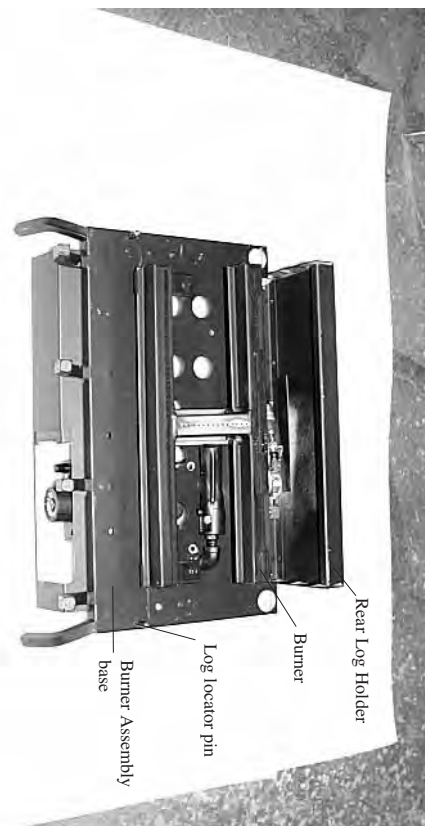
LOGF18 PLACEMENT GUIDELINES (continued)

42



Step (5) Place log A onto rear log holder and pull up to log C & D.

LOGF24 PLACEMENT GUIDELINES



Step (1) Remove logs from carton and inspect each log.



Step (3) Position rear main log B onto rear log holder located on rear of firebox. Position locking tabs of rear main log B into locking tabs of front main log A.



Step (2) Place front main log A on log locator pins.



Step (4) Place crossover log D onto the retainer pins located on the top of rear main log B.

LOGF24 PLACEMENT GUIDELINES (continued)

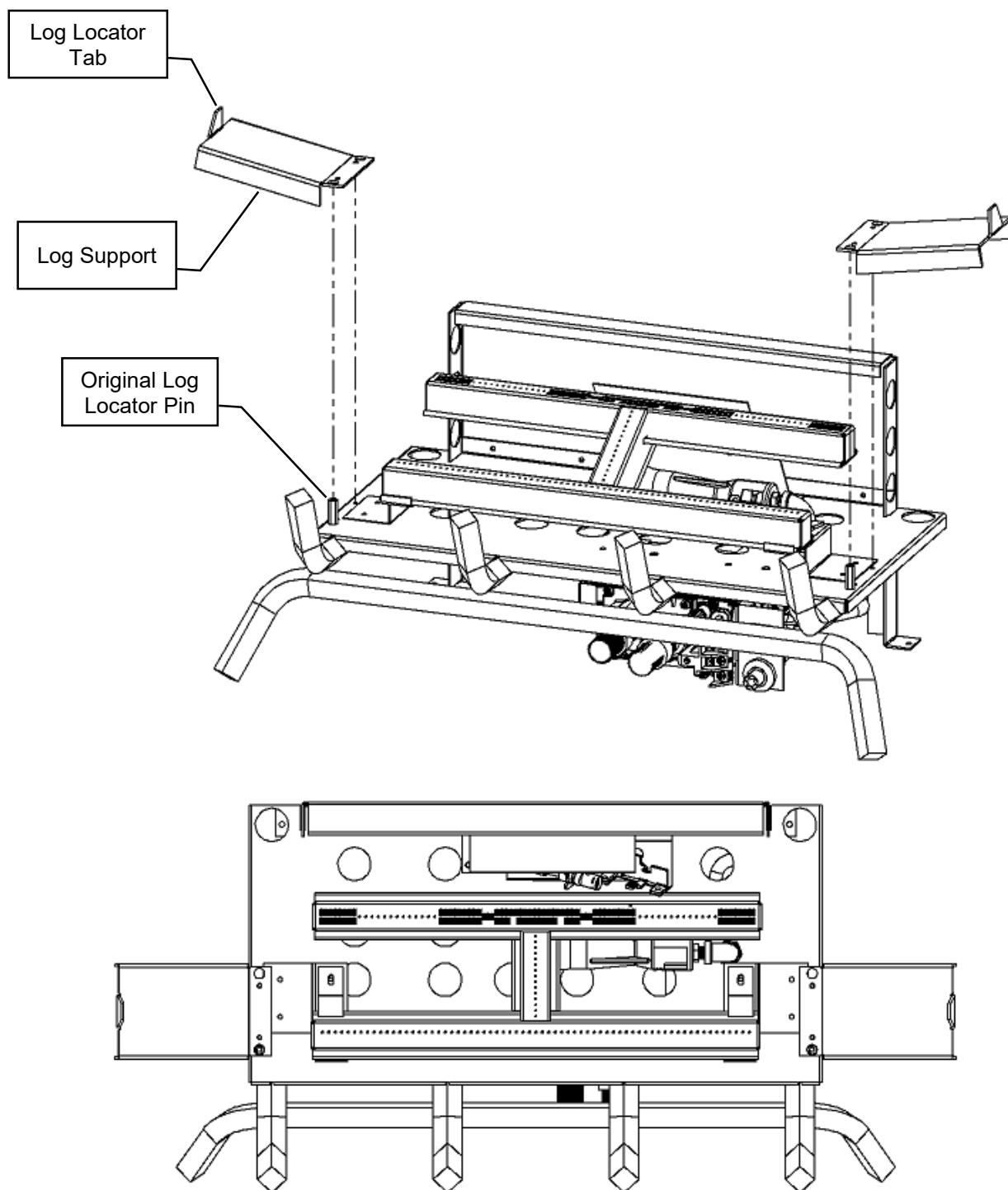


Step (5) Place Log C onto front burner.

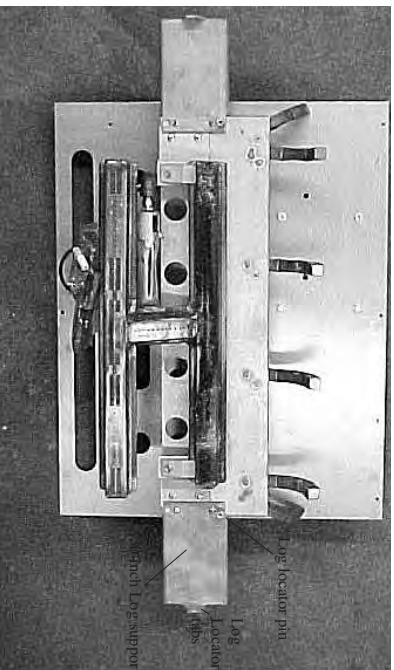
LOGF30 Log Installation

1. Align front hole of log support plate with original log locator pin.
2. Slide log support over pin & using two 10-24 DT screws, mount plate to burner grate.

NOTE: Make sure log support is tight against side of burner grate before fastening.



LOGF30 PLACEMENT GUIDELINES



When using the LOGF30 log, you must attach the 30 inch log supports found in the log set.

Step (1) Align front hole of 30 inch log support plate with original log locator pin.

Step (2) Slide the 30 inch log support over log locator pin. Using two 6-32 x 5/16 screws, mount plate to burner grate. **NOTE:** Make sure log support is tight against side of burner grate before fastening.

Step (3) Place front log by positioning the notches on the underside of the front log with the grate bars and pull forward.

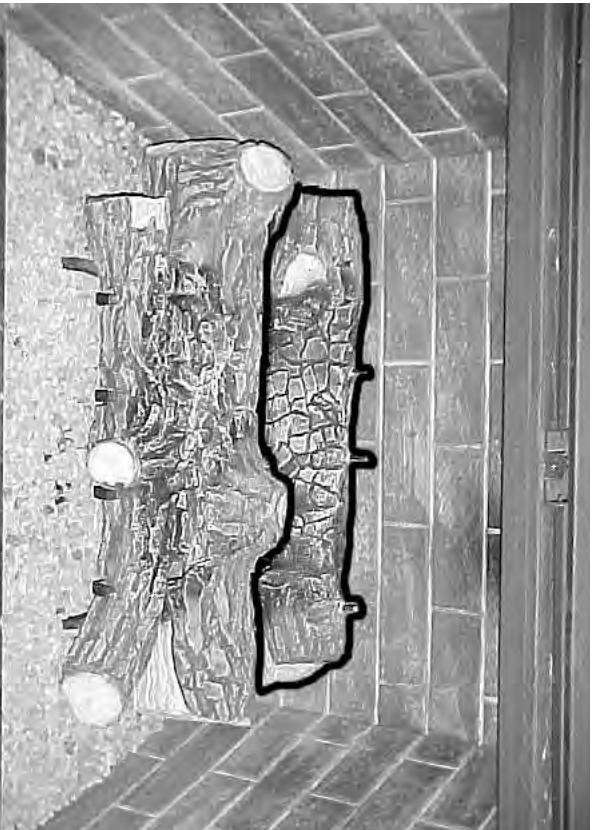


Step (4) Place left front log by positioning the slot (located on the bottom of log) with log retainer tab and lower into position.

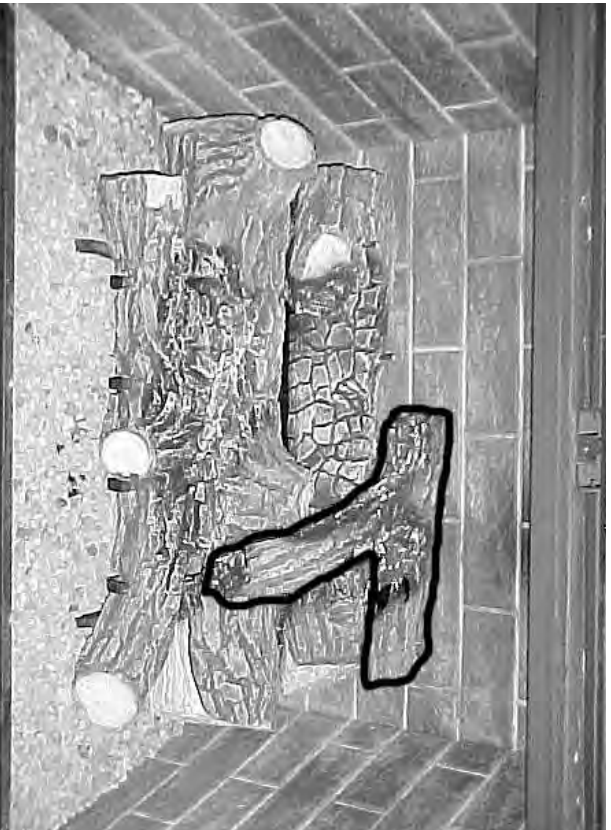


Step (5) Place right front log by positioning the slot (located on bottom of log) with log retainer tab and lower into position.

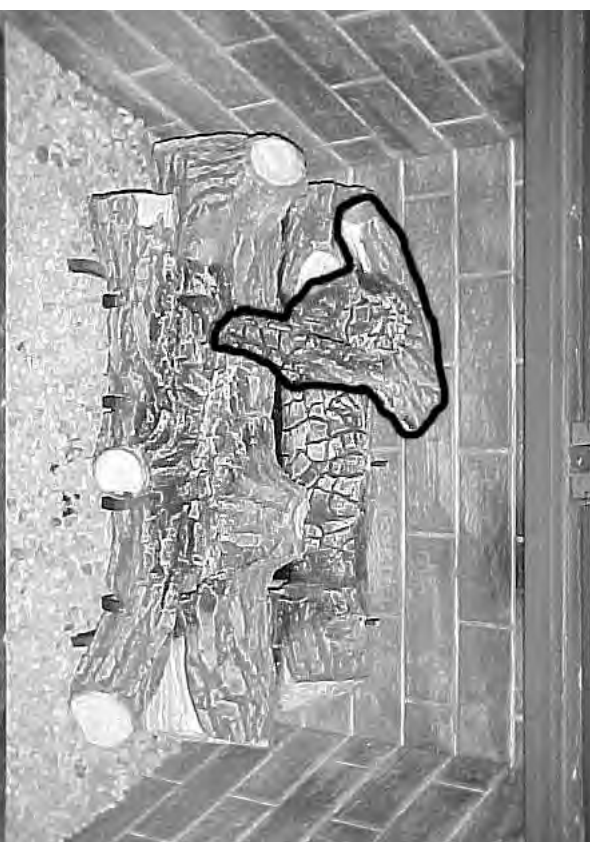
LOGF30 PLACEMENT GUIDELINES (continued)



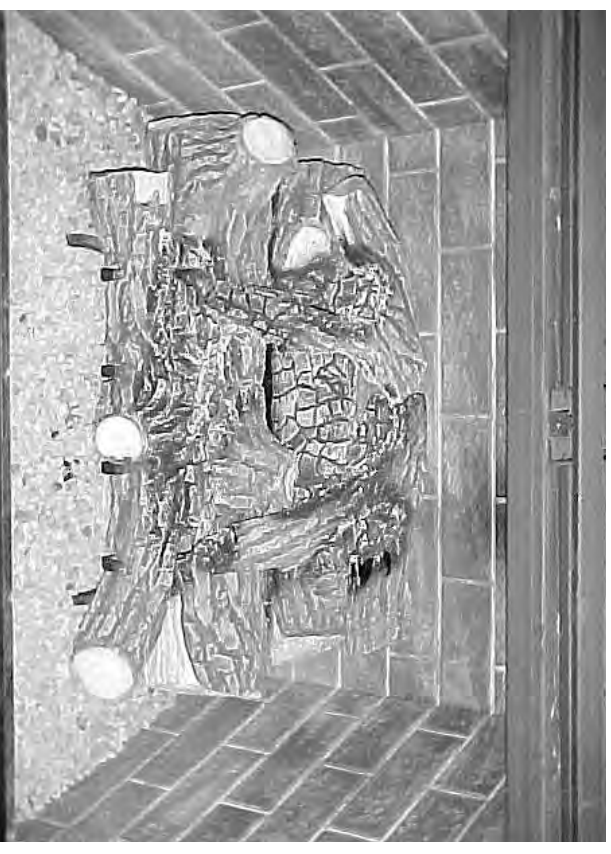
Step (6) Place rear log onto the rear log holder and pull up to the left and right front logs.



Step (8) Line up right crossover log with locator pins and lower into position.



Step (7) Line up left crossover log with locator pins and lower into position.



Complete LOGF30 Logset.

Millivolt System, Lighting, and Burner Control

FOR YOUR SAFETY READ BEFORE LIGHTING



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

BEFORE LIGHTING

- | | |
|--|--|
| <p>A This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.</p> <p>B 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.</p> | <ul style="list-style-type: none"> Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions. If you cannot reach your gas supplier, call the fire department. <p>C Use only your hand to push or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it. Call a qualified technician. Force or attempted repair may result in a fire or explosion.</p> <p>D Do not use the 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 which has been under water.</p> |
|--|--|

WHAT TO DO IF YOU SMELL GAS

- Do not try to light an appliance.
- Do not touch any electrical switch; do not use any phone in your building.

LIGHTING INSTRUCTIONS

- | | |
|--|---|
| <ol style="list-style-type: none"> Stop! Read the safety information above this label. Set the thermostat to lowest setting. Turn off all electrical power to the appliance. Locate valve under the burner assembly. If the control knob is not already in the off position, i.e. the word "OFF" in the 9 o'clock position, then push in the gas control knob slightly and turn ⤵ clockwise to "OFF". NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not use force. Wait five [5] minutes to clear out any gas. If you then smell gas. STOP! Follow "B" in the safety information above on this label. If you don't smell gas then go to the next step. Now push in the control knob slightly and turn ⤵ counter-clockwise to the "PILOT" position. Push in the control knob all the way and hold it. With the other hand push in the red igniter button until you hear a click. Now observe closely the pilot burner located on the rear center-left hand side of the main burner. | <p>If a flame has appeared then continue to depress the control knob for 20 seconds. If the flame did not appear then continue to depress the red igniter button every 5 seconds until a flame is established. NOTE: If after 30 seconds a flame has not yet been established then turn the control knob back to the off position and repeat steps 5, 6 & 7.</p> <ol style="list-style-type: none"> Once the pilot has been established hold the control knob in the depressed position for approximately 25 seconds before releasing. If the flame goes out then repeat steps 7 and 8. <ul style="list-style-type: none"> If the knob does not pop up when released, stop and immediately call your service technician or gas supplier. If the pilot will not stay lit after several tries, turn the gas control to "OFF" and call your service technician. Now turn the control knob to the "ON" position. The burner will not light unless the wall switch thermostat or remote control is turned "ON" or in the case of the thermostat there is a call for heat. Close the access door and turn all electrical power back to the appliance. |
|--|---|

TO TURN OFF THE APPLIANCE

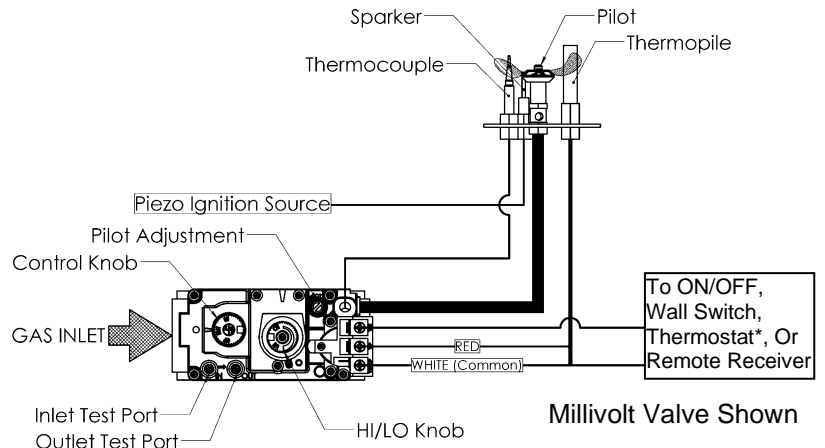
- | | |
|---|--|
| <ol style="list-style-type: none"> Set the thermostat to lowest setting. Turn off all electric power to the appliance if service is to be performed. Open the control access door. | <ol style="list-style-type: none"> Push in the gas control knob slightly and turn ⤵ clockwise to the "OFF" position. Do not force. Replace control access panel. |
|---|--|

NOTE: Only one on/off device (manual on/off, remote control, or hard wired thermostat) should be connected to the appliance at any one time, this is most important when installing an insert or stove as the on/off rocker switch is installed at the factory.

Recommended Maximum Lead Length (Double Wire)
When Using Wall Switch or Thermostat

Wire Size	Max. Length
14ga	100ft [30.4m]
16ga	64ft [19.5m]
18ga	40ft [12.1m]
20ga	25ft [7.6m]
22ga	15ft [4.5m]

CAUTION: DO NOT WIRE 120V POWER TO MILLIVOLT SWITCHES OR THERMOSTAT.



Millivolt Valve Shown

TROUBLESHOOTING



WARNING

NOTE: all troubleshooting items are listed in order of operation.

Turn off and let cool before servicing. Only a qualified service person should service and repair heater.

When Igniter button is pressed, there is no spark at ODS/Pilot.

Possible Cause

1. Igniter electrode positioned wrong.
2. Igniter electrode is broken.
3. Igniter electrode not connected to Igniter cable.
4. Igniter cable pinched or wet.
5. Piezo Igniter nut is loose.
6. Broken Igniter cable.
7. Bad piezo Igniter.

Remedy

1. Replace Igniter.
2. Replace Igniter.
3. Reconnect Igniter cable.
4. Free Igniter cable if pinched by any metal or tubing. Keep Igniter cable dry.
5. Tighten nut.
6. Replace Igniter cable.
7. Replace piezo Igniter.

Appliance produces unwanted odors.

Possible Cause

1. Appliance burning vapors from paint, hair spray, glues, etc.
2. Gas leak.

Remedy

1. Ventilate room. Stop using odor-causing products while heater is running
2. Locate and correct all leaks.

Appliance shuts off in use.

Possible Cause

1. Not enough fresh air is available for ODS/pilot to operate.
2. Low line pressure.
3. ODS/pilot is partially clogged.

Remedy

1. Open window and/or door ventilation.
2. Contact local gas company.
3. Clean ODS/pilot.

Gas odor even when control knob is in OFF position.

Possible Cause

1. Gas leak.
2. Control valve defective.

Remedy

1. Locate and correct all leaks.
2. Replace control valve.

When Igniter button is pressed, there is a spark at ODS/pilot, but no ignition.

Possible Cause

1. Gas supply turned off or manual shutoff valve closed.
2. Control knob not in PILOT position.
3. Control knob not pressed in while in PILOT position.
4. Air in gas lines when installed.
5. ODS/pilot is clogged.
6. Gas regulator setting is not correct.

Remedy

1. Turn on gas supply or open manual shutoff valve.
2. Turn control knob while in PILOT position.
3. Press control knob in while in PILOT position.
4. Continue holding down control knob. Repeat igniting operation until air is removed.
5. Replace ODS/pilot assembly or get it serviced.
6. Replace gas regulator.

ODS/pilot lights, but flame goes out when control knob is released.

Possible Cause

1. Control knob not fully pressed in.
2. Control knob not pressed in long enough.
3. Manual shutoff valve not fully open.
4. Thermocouple connection loose at valve.

Remedy

1. Press control knob in fully.
2. After ODS/pilot lights, keep control knob pressed in for 30 seconds.
3. Fully open manual shutoff valve.
4. Hand tighten until snug, then tighten $\frac{1}{4}$ turn more.

TROUBLESHOOTING Cont.

5. Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out.
Problem could be caused by one or both of the following:
 - A) Low gas pressure
 - B) Dirty or partially clogged ODS/pilot.
6. Thermocouple damaged.
7. Control valve damaged.
5. Contact local gas company.
6. Replace thermocouple
7. Replace control valve.

One or both burners do not light after ODS/pilot is lit.

Possible Cause

1. Burner orifice is clogged.
2. Inlet pressure is too low.

Remedy

1. Clean burner or replace light burner orifice.
2. Contact qualified service person.

Delayed ignition of burner.

Possible Cause

1. Manifold pressure is too low.
2. Burner orifice is clogged.

Remedy

1. Contact local gas company.
2. Clean burner or replace burner orifice.

Burner backfiring during combustion.

Possible Cause

1. Burner orifice is clogged or damaged.
2. Burner is damaged.
3. Gas regulator is defective.

Remedy

1. Clean burner or replace burner orifice.
2. Replace burner.
3. Replace gas regulator.

Slight smoke or odor during initial operation.

Possible Cause

1. Vapors from paint or curing process of logs.

Remedy

1. Problem will stop after a few hours of operation. Run the heater with the damper open if you have one or open a window for the first few hours.

Log appears to smoke (after initial operation).

Possible Cause

Remedy

1. Log heater is intended to be smokeless. Turn off heater and call qualified service person.

Heater produces a whistling noise when burner is lit.

Possible Cause

Remedy

1. Turning control knob to HI position when burner is cold.
2. Air in gas line.
3. Dirty or partially clogged burner orifice.
1. Turn control knob to LO position and let warm up for a minute
2. Operate burner until air is removed from line. Have gas line checked by local gas company.
3. Clean burner or replace burner orifice.

No Gas to pilot.

Possible Cause

Remedy

1. LP regulator shut down due to inlet pressure being too high
1. Verify LP tank regulator is installed and set at 11 to 13 inches w.c.
2. Replace LP regulator on heater.

Product Number Description

ZVFCV39 Universal Vent Free Firebox with Pull Screens
-Listed for USA as a Universal Firebox-

Burner With Grate

GLVF24MVN Vent Free Gas Log Burner –
 Millivolt Valve 35,000 BTU/HR
 Natural Gas

GLVF24MVP Vent Free Gas Log Burner –
 Millivolt Valve 30,000 BTU/HR
 Liquid Propane

LOG SET: (Required for each unit)

LOGF18 Log Set – Fibre Split Oak 18”

LOGF24 Log Set – Fibre Split Oak 24”

Fireplace Accessories & Options

VLBIT4 Log Bits - Large Four Piece Kit

VLBIT6 Log Bits - Small Six Piece Kit

ULK2 Universal Light Kit

3927ZDV-P779-1 Bulb 10W 12V 64418 or [Sylvania 58691] (light bulbs NOT covered under Warranty.)

5143-P77912 Lamp Assembly 58mm (light bulbs NOT covered under Warranty.)

3927ZDV-P601 Transformer MET60-1

Wall Surrounds ZCV39

ZCV39S1BL Surround - Hearth Mount
 (40-5/8”W x 35”) Black

ZCV39S1PFBL Surround – Wide Picture Frame
 (40-5/8”W x 37” x 4”) Black

ZCV39S2PFBL Surround - Picture Frame
 (36-1/8”W x 32-1/2” x 1-5/8”) Black

ZCV-TLK Tile Lip Kit

Refractory Liners

ZCV39RLT Refractory Liner Traditional

ZCV39RLH Refractory Liner Herringbone

ZCV39RRH Refractory Liner Red Herringbone

ZCV39RLS Refractory Liner Stacked Brick

Optional Fan Kit / Blower

Z46FK Fan Kit w/Variable Speed Wall
 Mount Control (Temperature
 Sensing)

26IDV-P260 Blower Motor (Replacement)

Fireplace Accessory Options

Z1MT Thermostat Millivolt Wall Mount

Z80PT Thermostat Programmable Digital
 Millivolt Wall Mount (1F80-40)

Remote Control / Millivolt

GFRC Remote Control Millivolt / IPI –
 On/Off

GTRC Remote Control Millivolt -
 Thermostat

GTMRCN Remote Control Millivolt –
 Thermostat/Modulating - NG

GTMRCP Remote Control Millivolt –
 Thermostat/Modulating - LP

GTFRCN Remote Control Millivolt –
 Thermostat/Modulating/Fan - NG

GTFRCP Remote Control Millivolt –
 Thermostat/Modulating/Fan - LP

Miscellaneous Parts

1000-214 Piezo-Igniter 1244-17 MARK 21

1000-215 Pal Nut (18MMX1.5MM)BLK
 (1364.03)

1000-218 Switch Ivory (1451/001)

1000-227 Cover Ivory (86001/001)

1000-255 Orifice Brass - (State Size)

1000-085 Control Variable Speed KBWC-
 13BV

FP15GC Stainless Steel Gas Connector

Product Number Description

**ZVFCV42 Universal Vent Free Firebox
with Pull Screens**
-Listed for USA as a Universal Firebox-

Burner With Grate

GLVF24MVN Vent Free Gas Log Burner –
Millivolt Valve 35,000 BTU/HR
Natural Gas
GLVF24MVP Vent Free Gas Log Burner –
Millivolt Valve 30,000 BTU/HR
Liquid Propane

LOG SET: (Required for each unit)

LOGF18 Log Set – Fibre Split Oak 18”
LOGF24 Log Set – Fibre Split Oak 24”

Fireplace Accessories & Options

VLBIT4 Log Bits - Large Four Piece Kit
VLBIT6 Log Bits - Small Six Piece Kit
ULK2 Universal Light Kit
3927ZDV-P779-1 Bulb 10W 12V 64418 or [Sylvania
58691] (light bulbs NOT covered
under Warranty.)
5143-P77912 Lamp Assembly 58mm (light bulbs
NOT covered under Warranty.)
3927ZDV-P601 Transformer MET60-1

Wall Surrounds ZCV42

ZCV42S1BL Surround - Hearth Mount
(44-11/16”W x 38-1/8”) Black
ZCV42S1PFBL Surround – Wide Picture Frame
(44-11/16”W x 40-1/8” x 4”) Black
ZCV42S2PFBL Surround - Picture Frame
(40-3/16”W x 35-5/8” x 1-5/8”)
Black
ZCV-TLK Tile Lip Kit

Refractory Liners

ZCV42RLT Refractory Liner Traditional
ZCV42RLH Refractory Liner Herringbone
ZCV42RRH Refractory Liner Red Herringbone
ZCV42RLS Refractory Liner Stacked Brick

Optional Fan Kit / Blower

Z46FK Fan Kit w/Variable Speed Wall
Mount Control (Temperature
Sensing)
26IDV-P260 Blower Motor (Replacement)

Fireplace Accessory Options

Z1MT Thermostat Millivolt Wall Mount
Z80PT Thermostat Programmable Digital
Millivolt Wall Mount (1F80-40)

Remote Control / Millivolt

GFRC Remote Control Millivolt / IPI –
On/Off
GTRC Remote Control Millivolt -
Thermostat
GTMRCN Remote Control Millivolt –
Thermostat/Modulating - NG
GTMRCP Remote Control Millivolt –
Thermostat/Modulating - LP
GTFRCN Remote Control Millivolt –
Thermostat/Modulating/Fan - NG
GTFRCP Remote Control Millivolt –
Thermostat/Modulating/Fan - LP

Miscellaneous Parts

1000-214 Piezo-Igniter 1244-17 MARK 21
1000-215 Pal Nut (18MMX1.5MM)BLK
(1364.03)
1000-218 Switch Ivory (1451/001)
1000-227 Cover Ivory (86001/001)
1000-255 Orifice Brass - (State Size)
1000-085 Control Variable Speed KBWC-
13BV
FP15GC Stainless Steel Gas Connector

Product Number Description

**ZVFCV47 Universal Vent Free Firebox
with Pull Screens**
-Listed for USA as a Universal Firebox-

Burner With Grate

GLVF24MVN Vent Free Gas Log Burner –
Millivolt Valve 35,000 BTU/HR
Natural Gas

GLVF24MVP Vent Free Gas Log Burner –
Millivolt Valve 30,000 BTU/HR
Liquid Propane

LOG SET: (Required for each unit)

LOGF18 Log Set – Fibre Split Oak 18”

LOGF24 Log Set – Fibre Split Oak 24”

LOGF30 Log Set – Fibre Split Oak 30”

Fireplace Accessories & Options

VLBIT4 Log Bits - Large Four Piece Kit

VLBIT6 Log Bits - Small Six Piece Kit

ULK2 Universal Light Kit

3927ZDV-P779-1 Bulb 10W 12V 64418 or [Sylvania
58691] (light bulbs NOT covered
under Warranty.)

5143-P77912 Lamp Assembly 58mm (light bulbs
NOT covered under Warranty.)

3927ZDV-P601 Transformer MET60-1

Wall Surrounds ZCV47

ZCV47S1BL Surround - Hearth Mount Black

ZCV-TLK Tile Lip Kit

Refractory Liners

ZCV47RLT Refractory Liner Traditional

ZCV47RLH Refractory Liner Herringbone

Optional Fan Kit / Blower

Z46FK Fan Kit w/Variable Speed Wall
Mount Control (Temperature
Sensing)

26IDV-P260 Blower Motor (Replacement)

Fireplace Accessory Options

Z1MT Thermostat Millivolt Wall Mount

Z80PT Thermostat Programmable Digital
Millivolt Wall Mount (1F80-40)

Remote Control / Millivolt

GFRC Remote Control Millivolt / IPI –
On/Off

GTRC Remote Control Millivolt -
Thermostat

GTMRCN Remote Control Millivolt –
Thermostat/Modulating - NG

GTMRCP Remote Control Millivolt –
Thermostat/Modulating - LP

GTFRCN Remote Control Millivolt –
Thermostat/Modulating/Fan - NG

GTFRCP Remote Control Millivolt –
Thermostat/Modulating/Fan - LP

Miscellaneous Parts

1000-214 Piezo-Igniter 1244-17 MARK 21

1000-215 Pal Nut (18MMX1.5MM)BLK
(1364.03)

1000-218 Switch Ivory (1451/001)

1000-227 Cover Ivory (86001/001)

1000-255 Orifice Brass - (State Size)

1000-085 Control Variable Speed KBWC-
13BV

FP15GC Stainless Steel Gas Connector



LIMITED LIFETIME WARRANTY

This Limited Lifetime Warranty applies only while the unit remains at the site of the original installation and only if the unit is installed inside the continental United States, Alaska, Hawaii, and Canada. The warranty applies only if the unit is installed and operated in accordance with the printed instructions and in compliance with applicable installation and building codes and good trade practices.

BASIC ONE YEAR WARRANTY

During the first year after installation, we will provide a replacement for any component part of your unit found to be defective in materials or workmanship, including labour costs. Repair work requires prior approval by Kingsman, labour costs are based on a predetermined rate schedule and any repair work must be done through an authorized Kingsman dealer.

(Excluded Components: Accent Light Bulbs, Gasketing and Paint)

LIMITED LIFETIME WARRANTY

The heat exchanger, combustion chamber and burner of every Kingsman product excluding the Outdoor Firepit are warranted against materials or workmanship during the period the product is owned by the original owner. The part to be replaced must be returned to our distributor in exchange for the replacement part. Any labor, material, freight and/or handling charges associated with any repair or replacement pursuant to this Limited Lifetime Warranty will not be covered by this warranty.

GENERAL TERMS

In lieu of providing a replacement part, we may, at our option, provide the distributor's component purchase price from us or a credit equal to the distributor's component purchase price from us toward the purchase of any new unit which we distribute. If a credit is given in lieu of a replacement part, the rating plate from the unit being replaced must be submitted on a warranty claim, and the unit being replaced must be made available to our distributor for disposition.

In establishing the date of installation for any purpose, including determination of the starting date for the term of this Limited Lifetime Warranty, reasonable proof of the original installation date must be presented*, otherwise the effective date will be based upon the date of manufacture plus thirty (30) days.

We will not be responsible for and you, the user, will pay for: (a) damages caused by accident, abuse, negligence, misuse, riot, fire, flood, or Acts of God (b) damages caused by operating the unit where there is a corrosive atmosphere containing chlorine, fluorine, or any other damaging chemicals (other than in a normal residential environment) (c) damages caused by any unauthorized alteration or repair of the unit affecting its stability or performance (d) damages caused by improper matching or application of the unit or the unit's components (e) damages caused by failing to provide proper maintenance and service to the unit (f) any expenses incurred for erecting, disconnecting or dismantling the unit (g) parts or supplies used in connection with service or maintenance (h) damage repairs, inoperation or inefficiency resulting from faulty installation or application (i) electricity or fuel costs or any increase in electricity or fuel cost whatsoever including additional or unusual use of supplemental electric heat.

We shall not be liable for any incidental, consequential, or special damages or expenses in connection with any use or failure of this unit. We have not made and do not make any representation or warranty of fitness for a particular use or purpose, and there is no implied condition of fitness for a particular use or purpose. We make no express warranties except as stated in this Limited Lifetime Warranty. No one is authorized to change this Limited Lifetime Warranty or to create for us any other obligation or liability in connections with this unit. Any implied warranties shall last for one year after the original installation. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages or do not allow limitations on how long an implied warranty or condition lasts, so the above limitations or exclusions may not apply to you. The provisions of this limited warranty are in additions to and not a modification of or subtraction from any statutory warranties and other rights and remedies provided by law.

Save this certificate. It gives you specific legal rights, and you may also have other rights which may vary from state to state and province to province.

In the event your unit needs servicing, contact your dealer or contractor who installed or serviced your unit. When requesting service, please have the model and serial number from each unit readily available. If your dealer needs assistance, the distributor is available for support and we, in turn support the distributor's efforts.

Fill in the installation date and model and serial numbers of the unit in the space provided below and retain this limited warranty for your files.

Model No. _____ Serial No. _____ Date installed _____

Dealer or Contractor Name: _____

*To receive advantage of your warranty, you must retain the original records that can establish the installation date of your unit.

The Ultimate in Design, Engineering & Quality