Installation Instructions

Listed Certified for USA. and Canada

This appliance may be installed in an aftermarket permanently located, manufactured (mobile) home, where not prohibited by local codes. This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

Model Number ZDV5245

Stock #'s: ZDV5245N, ZDV5245LP are Certified to: ANSI Z21.50b-1998/CGA 2.22b-M98, CSA P.4.1-02



"Zero Clearance" Direct Vent Gas Fireplace

Read this complete manual before beginning installation. These instructions must be kept with the unit for <u>future reference</u>.

FOR YOUR SAFETY

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.
Extinguish any open flame.
Do not touch any electrical switch.
Do not use any phone in your building.
Immediately call your gas supplier from a neighbour's phone.
If you can not reach your gas supplier, call the fire department.



A Division of R-Co. Inc. 2340 Logan Avenue Winnipeg, Manitoba, Canada R2R 2V3 Ph: (204) 632-1962

Warning: Improper installation, alteration, service or maintenance can cause property damage, personal injury or loss of life. Refer to this manual. Installation and service must be performed by a qualified installer, service agency or the gas supplier.

PRE-INSTALLATION QUESTIONS and ANSWERS

Why does my fireplace or stove give off odour?

It is normal for your fireplace to give off some odour. 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 odours).

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

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.

Fire the appliance four successive times for 10 minutes each firing and a 5 minute cool down between each. Be aware during log and firebox paint curing that a white deposit may be developing on the inside of the glass doors. It is important to remove this white deposit from the glass doors with an appropriate cleaner to prevent build-up (such as Windex or a commercial fireplace glass cleaner).

- 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.

Noise coming from the fireplace?

• Noise caused by metal expanding and contracting as it heats up and cools down, similar to the sound produced by a furnace or heating duct. This noise does not affect the operation or longevity of your fireplace.

Table of Contents

Installation and operation
Installation Requirements for the Commonwealth of Massachusetts5
Locating your appliance
Framing your gas fireplace
Mantels and Clearances
Gas Line Installation
General glass information
Log assembly and fan kit
Log Placement and Installation
Fan kit installation
Millivolt system, lighting, & burner control
Brick installation
Vent termination
Venting graph
General vent installation information
Installation of side wall venting
Venting vertical
Repair parts list
Valve System Parts
Kingsman Fireplace part numbers & specifications Options
Kingsman Fireplace accessories
Kingsman Fireplace options
Trouble shooting the gas control system
Kingsman Industries Gas Fireplace – Limited Warranty

Installation and Operation & Maintenance

Installation Regulations

This gas appliance must be installed by a qualified installer in accordance with local building codes, or in the absence of local codes, with the current CAN/CGA-B149.1 or .2 Installation Code (in Canada) or the current National Fuel Gas Code Z223.1 when installed in the United States.

This appliance, when installed, must be electrically connected and grounded in accordance with local codes, or in the absence of local codes, with the current CSA C22.1 Canadian Electrical Code or with the national Electrical Code; ANSI/NFPA 70-1987 when installed in the United States.

Vertical Venting in Cold Climates

In cold climate conditions where temperatures go below -10 degrees Celsius or 14 degrees Fahrenheit, we recommend that the chase be insulated and where the vent pipe enters into the attic space that the pipe be wrapped with an insulated mylar sleeve. This will increase the temperature of the vent and help the appliance to vent properly in cold weather conditions.

It is also important in vertical vented direct vent appliances that the appliance be operated daily during the winter months as this will help stop the Termination from freezing up. We recommend using a thermostat set at room temperature to allow the unit to cycle.

FOR SAFE INSTALLATION AND OPERATION OF YOUR GAS FIREPLACE PLEASE NOTE THE FOLLOWING:

- This appliance gives off high temperatures and should be located out of heavy traffic areas and away from furniture and draperies.
- Children and adults should be alerted to the hazards of the high surface temperatures of this appliance and should stay away to avoid burns or ignition of clothing.
- 3. Children should be carefully supervised when they are in the same room as your fireplace appliance.

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.

This gas appliance should be installed by a qualified installer in accordance with local building codes and with current CAN/CGA - B149 (.1 or .2) installation codes for Gas Burning Appliances and Equipment.

Warning: When purging the gas line, the glass front must be removed.

Never use your gas fireplace as a cooking device.

The Burner/Log Assembly has been engineered and permanently adjusted for proper flame control.

Do not alter gas orifice.

- 4. Under no circumstances should this appliance be modified. Any parts that have to be removed for servicing should be replaced prior to operating this appliance.
- 5. Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More

frequent cleaning may be required due to excessive lint from carpeting, bedding material, etcetera. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.

- Control compartments, burners and air passages in this appliance should be kept clean and free of dust and lint. Make sure that the gas valve and pilot light are turned off before you attempt to clean this unit.
- The venting system (chimney) of this appliance should be inspected at least once a year and if needed, your venting system should be cleaned.
- Keep the area around your appliance clear of combustible materials, gasoline and other flammable vapors and liquids.

This appliance should not be used as a drying rack for clothing nor should Christmas stockings or decorations be hung from it.

- 9. Under no circumstances should any solid fuels (wood, paper) be used in this appliance.
- 10. For safe operation, glass doors must be closed.
- 11. Do not use this heater if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water.
- 12. WARNING: Do not operate appliance with the glass front removed, cracked or broken. Replacement of glass should be done by a licensed or qualified service person.
- Do not operate appliance unless completely installed as per installation instructions.
- 14. 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.

Periodically remove the logs from the grate assembly and vacuum any loose particles from the grate and burner areas.

Note: It is normal for your gas fireplace to give off some odor the first time it is burned. This is due to the curing of the paint and any undetected oil from the manufacturing process.

Please ensure that your room is well ventilated - open all windows.

It is recommended that you burn your gas fireplace for at least four (4) hours the first time you use it without the fan on.

Make adequate accessibility clearances for servicing and proper operation.

This appliance must not be connected to a chimney flue serving a separate solid fuel burning appliance.

Be sure that the flow of combustion and ventilation air not be obstructed

Installation Requirements for the Commonwealth of Massachusetts

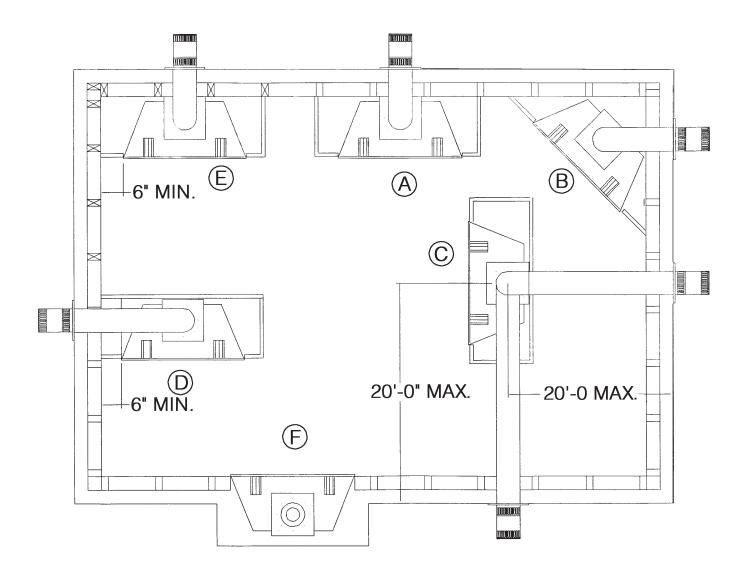
In the Commonwealth of Massachusetts, the installer or service agent shall be a plumber or gas fitter licensed by the Commonwealth. When installed in the Commonwealth of Massachusetts or where applicable codes; the unit shall be installed with a CO detector per the requirements listed below.

- 1. For direct-vent appliances, mechanical-vent heating appliances or domestic hot water equipment, where the bottom of the vent terminal and the air intake is installed below four feet above grade the following requirements must be satisfied:
 - A If there is not one already present, on each floor level where there are bedroom(s), a carbon monoxide detector and alarm shall be placed in the living area outside the bedroom(s). The carbon monoxide detector shall comply with NFPA 720 (2005 Edition).
 - B. A carbon monoxide detector shall be located in the room that houses the appliance or equipment and shall:
 - a. Be powered by the same electrical circuit as the appliance or equipment such that only one service switch services both the appliance and the carbon monoxide detector;
 - b. Have battery back-up power;
 - c. Meet ANSI/UL 2034 Standards and comply with NFPA 720 (2005 Edition); and
 - d. Have been approved and listed by a Nationally Recognized Testing Laboratory as recognized under 527 CMR.
 - C. A Product-approved vent terminal must be used, and if applicable, a Product-approved air intake must be used. Installation shall be in strict compliance with the manufacturer's instructions. A copy of the installation instructions shall remain with the appliance or equipment at the completion of the installation.
 - D. A metal or plastic identification plate shall be mounted at the exterior of the building, four feet directly above the location of vent terminal. The plate shall be of sufficient size to be easily read from a distance of eight feet away, and read "Gas Vent Directly Below".
- 2. For direct-vent appliances, mechanical-vent heating appliances or domestic hot water equipment where the bottom of the vent terminal and the air intake is installed above four feet above grade the following requirements must be satisfied:
 - A If there is not one already present, on each floor level where there are bedroom(s), a carbon monoxide detector and alarm shall be placed in the living area outside the bedroom(s). The carbon monoxide detector shall comply with NFPA 720 (2005 Edition).
 - B. A carbon monoxide detector shall:
 - a. Be located in the room that houses the appliance or equipment;
 - b. Be either hard-wired or battery powered or both; and
 - c. Shall comply with NFPA 720 (2005 Edition).
 - C. A Product-approved vent terminal must be used, and if applicable, a Product-approved air intake must be used. Installation shall be in strict compliance with the manufacturer instructions. A copy of the installation instructions shall remain with the appliance or equipment at the completion of the installation.

Locating your Appliance

(above or below grade)

Installing with Sloping Top Vent



Island installation with a top vent is possible as long as the horizontal portion of the vent system does not exceed 20 feet (6.1m). When you install your fireplace as in position 'B', 'D' or 'E', a minimum of 6 inches (153mm) clearance must be maintained from the perpendicular wall and the front of the appliance.

Framing for your Gas Fireplace

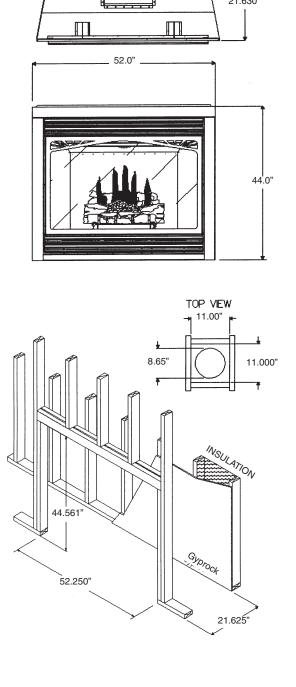
Framing Specifications

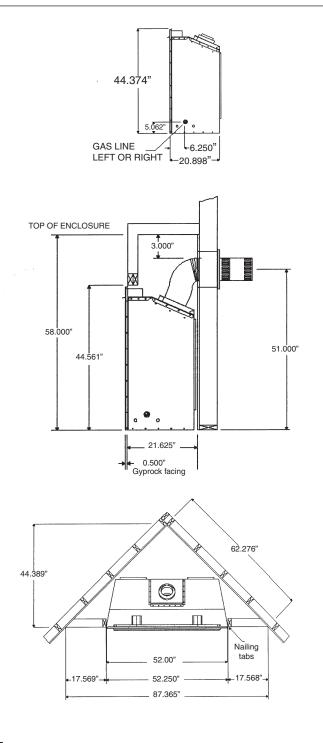
- Cold climate installation recommendation: When installing this fireplace
 against non insulated exterior wall or chase, it is recommended that the
 outer walls be insulated to conform to applicable insulation codes. Drywall
 should be installed over insulation to prevent contact of insulation and unit.
- Choose fireplace location and frame in accordance with the fireplace framing dimensions specified (See Framing Diagrams). Bend nailing tabs forward on left and right of unit and place fireplace into framed enclosure. This allows for 1/2" in front of framing tabs for finishing materials.

- 7.000° 5.000°

- 3. Drywall or other material can extend flush with the appliance on the bottom, sides and top of fireplace.
- 4. When installing horizontal with a 90 degree bend maintain a minimum of three (3") inches above the bend in enclosures.
- Hearth is not mandatory but is recommended for aesthetic purposes.
 Combustible floors cannot raise above the bottom of the fireplace. We recommend a non-combustible hearth projecting out 12" (305mm) or more in front of the fireplace.

For **Propane Horizontal Installations** the venting must be a minimum of one foot vertical off the flue before the elbow on any horizontal runs of one foot or greater. This allows for cleaner combustion and greatly reduces carboning and cleaning of glass.



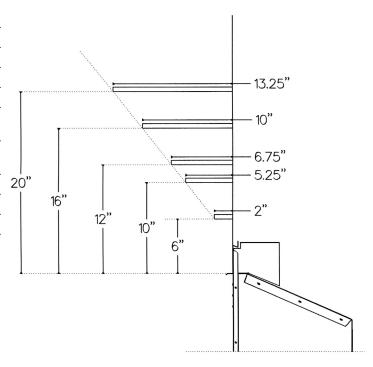


Clearance to Combustibles

Back (from Standoffs)	0 inches/0 mm
Side (from standoffs)	0 inches/0 mm
Floor	0 inches/0 mm
Top (from standoffs)	0 inches/0 mm
Top of 90 degree bend in Minimum Enclosure of 58 inches	1 3 inches/76 mm / Kingsman Vent Systems
Top of 90 degree bend in Enclosure over 58 inches	3 inches/76 mm / Kingsman Vent Systems
Top of Horizontal Pipe	21/2 inches/38 mm / Kingsman Vent Systems
Side & Bottom of Horizontal Pipe	1 inch/25.5mm / Kingsman Vent Systems
Vertical Vent Pipe	1 inch/25.5mm / Kingsman Vent Systems

(NOTE -Floor) if installing the appliance directly on carpeting or other combustible materials other than wood flooring, the appliance shall be installed on a metal or wood panel, the full width and depth of the appliance. Carpet may extend 1/2 inch above the floor of appliance.

Note: See Mantel Chart



Mantels

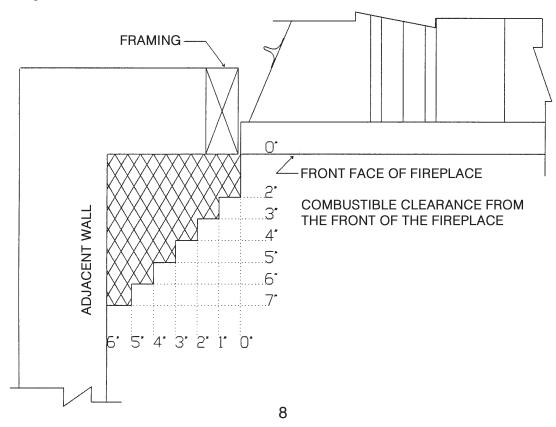
Depending on the depth of the fireplace mantel, it may be installed higher or lower from the top of the fireplace opening. See drawings for proper installation height of your combustible mantel. Non-combustible mantels may be installed at any height above the fireplace opening. Non combustible materials such as brick, tile, etc. can extend up to or over the front face of the fireplace (NO PORTION OF GRILL AREA OR DOOR AREAS CAN BE COVERED). Combustible material can extend flush to unit up to the top, bottom and sides of fireplace to stand-offs.

If slim line brass surround is used, brick, tiles or other NON-COMBUSTIBLE materials may extend past the front of unit giving a recessed appearance. For COMBUSTIBLE materials extending in front of fireplace consult (Mantel and Mantel Leg Drawings).

If wide brass surround is used finish materials must be flush with front of unit.

Note: When using paint or lacquer to finish the mantel, such paint or lacquer must be heat resistant $(250^\circ F)$ to prevent discoloration.

Warning: Combustible objects must not be placed on a non-combustible mantel unless the non-combustible mantel meets the minimum height and width requirements for a combustible mantel.



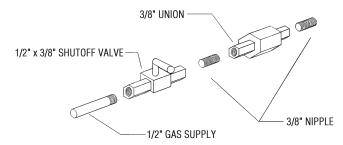
Gas Line Installation

This gas appliance should be installed by a qualified installer in accordance with local building codes and with current CAN/CGA - B149.1 or .2 installation codes for Gas Burning appliances and equipment in Canada and the National Fuel Gas Code ANSI Z223 in the U.S.A.

- The gas pipeline can be brought in through either the right or the left side of the appliance. A knockout is provided at either location to allow for the gas pipe installation and testing of any gas connection.
- 2. The gas control inlet is 3/8" NPT. Typical installation layout for rigid pipe is shown at right.
- When using copper or flex connector, use only approved fittings. Always provide a union so that gas line can be easily disconnected for burner or fan servicing. See gas specification for pressure details and ratings.
- 4. When a vertical section of gas pipe is required for the installation, a condensation trap is needed. See CAN/CGA-B149.1 or .2 for code details.
- 5. For natural gas, a minimum of 3/8" iron pipe with gas minimum pressure of 4.5" w.c. must be used for supply from the gas meter. Consult with the local gas utility if any questions arise concerning pipe sizes.
- 6. A 1/8" NPT plugged tappings are accessible for test gauge connection both on the inlet and outlet of the gas valve.
- Turn the gas supply ON and check for leaks. DO NOT USE OPEN FLAME FOR THIS PURPOSE. Use an approved leak testing solution.
- The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 PSIG (3.5 KPa).
- The appliance must be isolated from the gas supply piping system by closing its individual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 PSIG (3.5 KPa).

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.

Note: The gas line connection may be made of 1/2" rigid pipe, or an approved flex connector. Since some municipalities have additional local codes, it is always best to consult your local authorities and the current CAN/CGA - B149.1 or .2 installation code in Canada or the National Fuel Gas code ANSI Z223.1 in the U.S.A.



Important: Always check for gas leaks with a soap and water solution. Do not use open flame for leak testing.

Gas Specifications

Models	ZDV5245N	ZDV5245LP
Fuel	Natural	Propane
Gas Control	Millivolt adjustable	Millivolt adjustable
Input - High	47,000 BTU	40,000 BTU
- Low	30,000 BTU	30,000 BTU
Orifice Size	#29	#49
Air Shutter	1/2"	Fully Open .

Gas Inlet Size S.I.T. 820 Nova, 3/8" NPT

Gas Supply Pressure Natural Gas	Minimum 5.5"	Normal 7"	Maximum 9"
Liquid Propane	11"	11"	12"
Manifold Pressure	Natural Gas		Liquid Propane
Manifold Pressure High	3.5 IN. W.C./.87 K	Pa	10 ÎN. W.C./2.61 KPa
Manifold Pressure Low	1.6 IN. W.C./.40 K	Pa	6.3 IN. W.C./1.57 KPa

General Glass Information

Glass Cleaning

It will be necessary to clean the glass periodically. During start-up, condensation, which is normal, forms on the inside of the glass and causes dust, lint etc. to cling to the glass surface. Also, initial paint curing can deposit a slight film on the glass. It is therefore recommended that initially the glass be cleaned two or three times with <u>non-abrasive</u> common household glass cleansers and warm water. After that, the glass should be cleaned two or three times a season depending on the circumstances.

Cautions and Warnings

- Do not clean when the glass is hot.
- The use of substitute glass will void all product warranties.
- Care must be taken to avoid breakage of the glass.
- Do not operate this fireplace without the glass front or with a broken glass front.
- Do not strike or abuse glass.

Glass Replacement

REPLACEMENT GLASS FOR BOTH DIRECT VENT UNITS

Model Series ZDV5245 can use either tempered glass or Robax ceramic or coated Neaoceram glass. Must be 5mm thick.

To replace glass, clean all materials from door frame. Scrape off old silicone down to metal. Using a high heat silicone (temperature-resistant to 500°F (260°C) apply a continuous bead of approximately 1/32" to all four sides of frame and insert glass with new gasket. Frame should be on flat surface, with a small amount of weight pressing glass into silicone. Let dry approximately 15 to 20 minutes. The door can be re-installed by reversing Steps 1 & 2. Use caution when removing broken glass, wear gloves.

Removal of the Glass Door

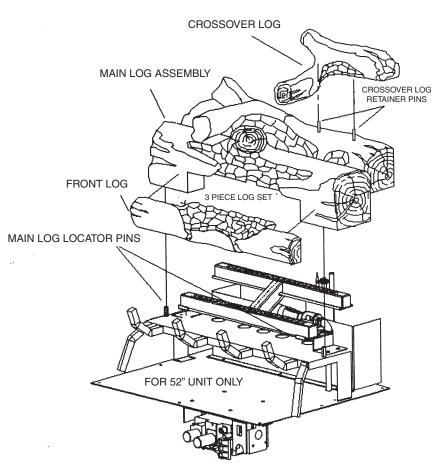
- 1. Remove the three screws located behind upper grill.
- 2. Remove screw on each side of door frame.
- 3. To remove, pull frame forward and lift from bottom door retainer.

Log Assembly for LOGF24 Log set (3 or 4 piece versions)

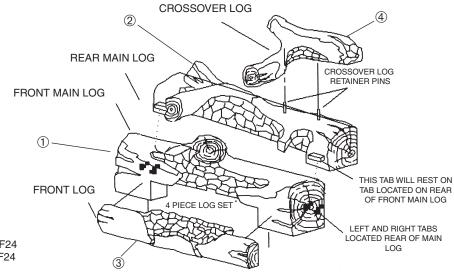
Log Assembly

- 1.Remove glass door by removing three (3) screws behind upper grills and then remove screws on both sides of door frame, lifting door off bottom door retainer.
- 2. Remove logs from carton and inspect.
- 3. Place front main log on locator pins.
- 4. When installing 4 piece log set with rear log separate, position rear main log on rear log holder located on rear of firebox and position locking tabs of rear log onto locking tabs of front main log.
- 5. Place crossover log on retainer pins located on top of rear main log.
- 6. Front log, position flat face up to main log.
- 7. Purge lines and test pilot operation.
- 8. Replace glass door. The door must be installed before operating the fireplace.

3 PIECE LOG SET



4 PIECE LOG SET

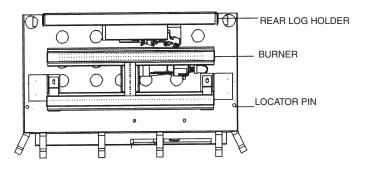


Kingsman Replacement Log Listing

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

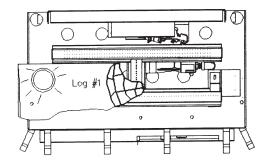
Log Placement for LOGF18

LOGF18 LOG SET PLACEMENT

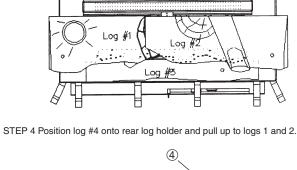


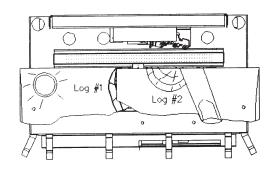
STEP 1 Locate hole on underside of log and place log over burner and Locator Pin and lower into position.

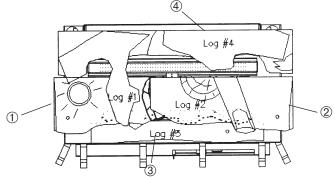
STEP 3 Place flat surface of bottom of log onto burner assembly base and push log up to logs 1 and 2



STEP 2 Locate hole on underside of log and place log over burner and Locator Pin and lower into position.



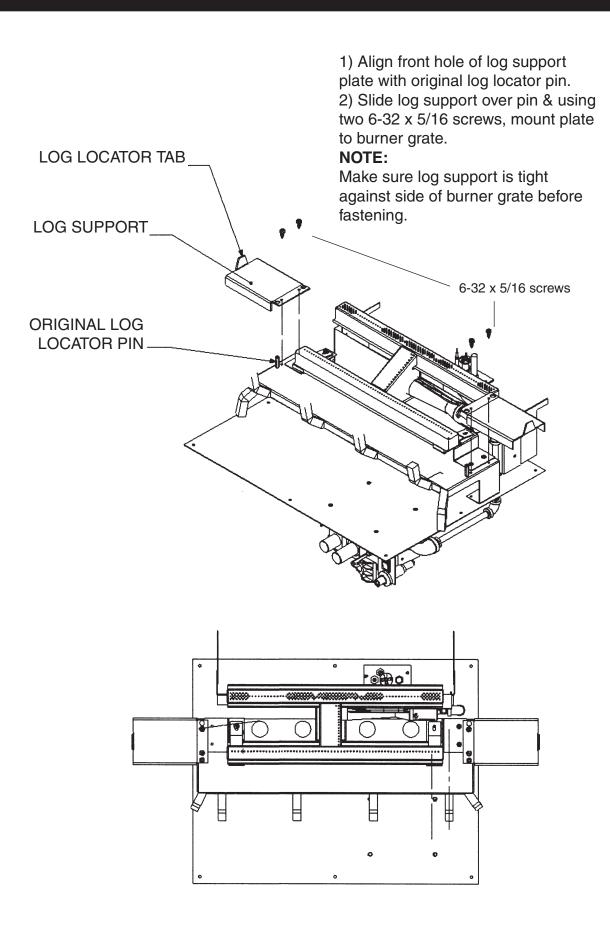




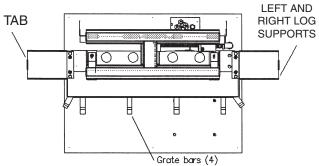
Kingsman Replacement Log Listing

Reference Number	Part Number	Description
1	18F-C	Left hand Main Log C, LOGF18
2	18F-D	Right hand Main Log D, LOGF18
3	18F-B	Front Log B, LOGF18
4	18F-A	Rear Log A, LOGF18

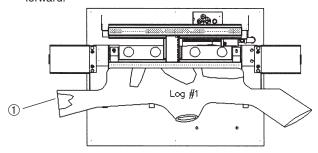
LOGF30 LOG INSTALLATION



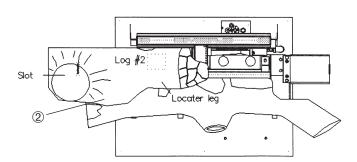
LOGF30 LOG PLACEMENT



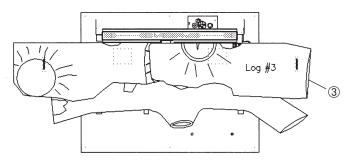
STEP #1. Locate Log #1 by positioning notches on under side of front log with the front Grate bars (4) and pull forward.



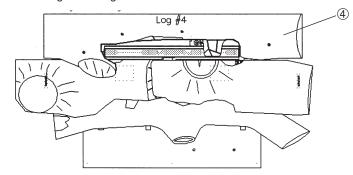
STEP #2. Locate left front log by positioning slot on bottom of log with Tab on support bracket and lower into position.



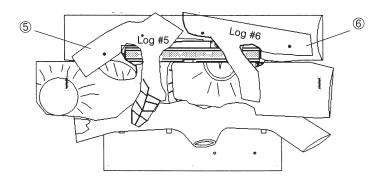
STEP #3. Locate right front log by positioning slot on bottom of log with Tab on support bracket and lower into position.



STEP #4. Place rear log onto rear log holder and pull up to left and right front logs.



STEP #5 & 6. Line up holes on crossover logs with locator pins on rear log #4 and lower into position.



Kingsman Replacement Log Listing

Reference	Part	
Number	Number	Description
1	30F-B	Front Main Log B, LOGF30
2	30F-D	Left hand Center Log D, LOGF30
3	30F-C	Right hand Center Log C, LOGF30
4	30F-A	Rear Main Log A, LOGF30
5	30F-E	Left hand Crossover Log E, LOGF30
6	30F-F	Right hand Crossover Log F, LOGF30

Fan Kit Installation

Automatic On/Off Thermostat Controlled Fan Kit (Part # Z36FK)

- 1. Open the lower front access cover.
- The sensor (thermodisc) needs to be secured under the firebox, the sensor needs to be in contact with fire box bottom.
- 3. The two (2) #8x1/2 screws are factory installed in the back of the fireplace. Mount the fan using the keyhole slots in the fan body.
- 4. Install a junction box (type to except three prong plug) on the inside wall of the access area opposite the fan. Large holes are provided to allow wiring to enter the access area on the left of the unit. Connect the power, sensor and variable speed wall switch as shown in the wiring diagram.

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

Wire Size	Max. Length	
14 GA.	100 FT.	
16 GA.	64 FT.	
18 GA.	40 FT.	
20 GA.	25 FT.	
22 GA.	16 FT.	

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. Do not cut or remove the grounding prong from this plug.

- 5. Close lower access cover.
- 6. Turn the wall switch on (clockwise). Turn the fireplace on. Once the sensor unit reaches operating temperature in approximately 10 to 15 minutes the fan will turn on. The fan can be switched off, if desired, by turning the wall switch fully counter-clockwise.
- 7. To set the minimum fan speed if desired. Remove the variable speed switch from the wall mount. Turn the variable speed wall controller to its minimum setting (fully clockwise). Use the set screw on the side of the variable speed controller to increase or decrease the minimum fan speed. (It may be desirable to lower minimum fan speed to decrease the sound level created by the fan.) Reinstall switch into wall mount and cover with face plate.

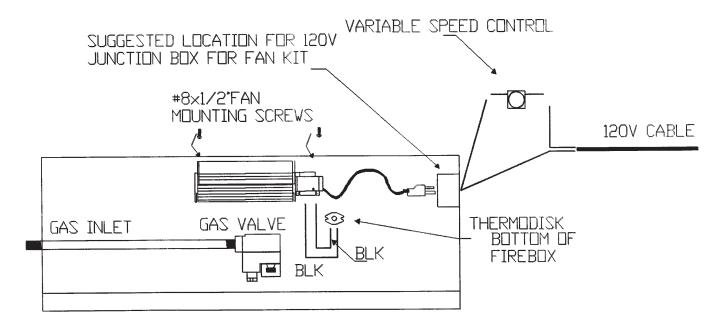
Electrical Services

All optional fan kits are equipped with a 120V, 60Hz blower.

Note: All electric connections are to be made in accordance with CSA Standard C22.1 - Canadian Electrical Code part I or with the National Electrical Code, ANSI/NFPA 70 (latest addition) and/or in accordance with local codes.

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

Verify proper operation after servicing.



Caution: Should this fan require servicing, the power supply must be disconnected.

Millivolt System, Lighting, & 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

- A This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- 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.

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.
- 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.
- 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.
- 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 which has been under water.

LIGHTING INSTRUCTIONS

- 1. Stop! Read the safety information above on this label.
- 2. Set the thermostat to lowest setting.
- 3. Turn off all electrical power to the appliance.
- 4. Locate valve under the burner assembly.
- If the control knob is not already in the off position, ie. 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.
- 8. Push in the control knob all the way and hold it. With the other hand push in the red ignitor button until you hear a click. Now observe closely the pilot burner located on the rear center-left hand side of the main burner. 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 ignitor 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.
- 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.
- 10. 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.
- 11. Close the access door and turn all electric power back to the appliance.

TO TURN OFF THE APPLIANCE

- Set the thermostat to lowest setting.
- Turn off all electric power to the appliance if service is to be performed.
- 3. Open the control access door.

- Push in the gas control knob slightly and turn clockwise to the "OFF" position. Do not force.
- 5. Replace control access panel.

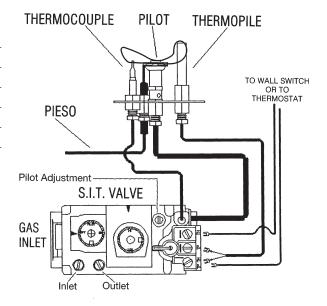
Recommended Maximum Lead Length (Double Wire) When Using Wall Switch or Thermostat

Wire Size	Max. Length
14 GA.	100 FT.
16 GA.	64 FT.
18 GA.	40 FT.
20 GA.	25 FT.
22 GA.	16 FT.

Pilot Burner Adjustment

1. Adjust pilot screw to provide proper sized flame.

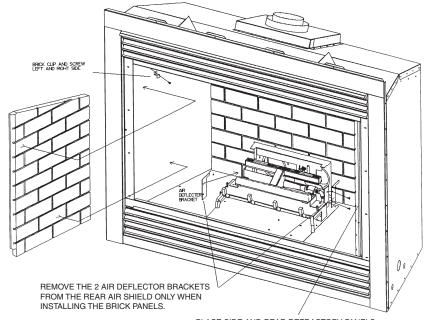
CAUTION: DO NOT WIRE 120 VOLT POWER TO MILLI-VOLT SWITCHES OR THERMOSTAT.



Brick Installation

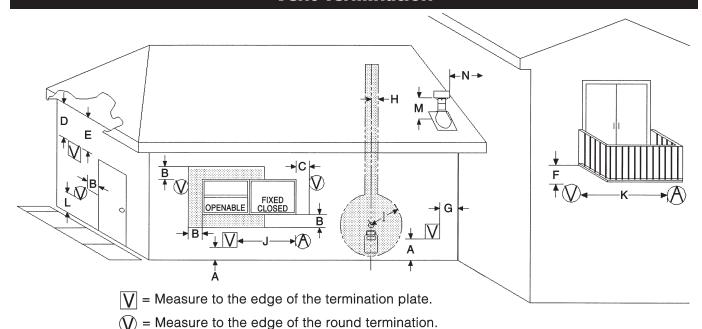
Installing Brick Panels

- 1. Remove the two air deflector brackets before installing rear brick and disregard.
- 2. Place rear brick panel up against the rear of the firebox.
- 3. Loosen screw holding brick clip in position, move clip up out of the way and place side brick up to rear brick and flush against side wall of firebox. Position clip over brick and tighten screw.
- 4. Repeat same procedure for opposite side of brick panel.



PLACE SIDE AND REAR REFRACTORY PANELS TIGHT AGAINST FIREBOX BEFORE TIGHTENING BRICK RETAINER CLIPS

Vent Termination



- V Vent Terminal
- Air Supply
- Area Where Terminal Not Permitted.
- A Clearance above grade, veranda, porch, deck, or balcony 12 inches (30cm) minimum.₁₋₂
- B Clearance to window or door that may be opened. 12 inches (30cm) minimum for appliances 100 000 Btuh (30 kW) and lower, in Canada. 9 inches₂ (23cm) for appliances 50 000 Btuh and lower, in USA.
- C Clearance to permanently closed window minimum 12 inches (30cm) recommended to prevent condensation on window, in Canada. 9 inches, (23cm) for appliances 50 000 Btuh and lower, in USA.
- D Vertical clearance to ventilated soffit located above the termination within a horizontal distance of 2 feet (60cm) from the center line of the termination. 18 inches (46cm) minimum.
- E Clearance to unventilated soffit 12 inches (30cm) minimum.
- F Clearance under veranda, porch, deck or balcony 12 inches₁ (30cm) minimum.₄ US₅
- G Clearance from a perpendicular inside wall or outer corner to the edge of the vent terminal plate is 3" (minimum).
- H Clearance to each side of center line extended above meter/regulator assembly 3 feet (91cm) within a height 15 feet (4.5m) above the meter/regulator assembly.
- I Clearance to service regulator vent outlet 3 feet (91cm) minimum., US₅
- J Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance: In Canada, 6 inches (15cm) for appliances ≤10,000 Btuh (3kW), 12 inches₁ (30cm) minimum for appliances >10,000 Btuh (3kW) and ≤100,000 Btuh (30kW), 36 inches (91cm) for appliances >100,000 Btuh (30kW). In the USA, 6 inches₂ (15cm) for appliances ≤10,000 Btuh (3kW), 9 inches (23cm) for appliances >10,000 Btuh (3kW) and ≤50,000 Btuh (15kW), 12 inches (30cm) for appliances >50,000 Btuh (15kW).
- K Clearance to a mechanical air supply inlet 6 feet (1.8m) minimum.₁,in Canada. In USA, 3 feet (91cm) above if within 10 feet₂ (3m) horizontally.
- L Clearance above paved sidewalk or a paved driveway located on public property 7 feet (2.1m) minimum.₃
- M Clearance above highest point of exit on roof 18 inches (45cm).
- N Clearance to perpendicular wall 24 inches (60 cm). (Recommended to prevent re-circulation of exhaust products. For additional requirements check local codes.)

NOTE: Clearances are to the edge of terminal plate, add 6-3/4" to clearances to arrive at center line.

NOTE: Local Codes or Regulations may require different clearances.

Termination

It is imperative that the vent termination be located observing the minimum clearances as shown. There must not be any obstruction such as bushes, garden sheds, fences, decks or utility buildings within 24" from the front of the termination plate.

Do not locate termination where excessive snow or ice build-up may occur. Be sure to check vent termination area after snow falls and clear to prevent accidental blockage of venting system. When using snow blowers, make sure snow is not directed towards vent termination area.

General Venting Information

The gas fireplace is approved to be vented either through the side wall or vertically through the roof.

This appliance is approved with Kingsman flex vent system.

ONLY VENTING COMPONENTS SPECIFICALLY APPROVED AND LABELED FOR THIS FIREPLACE MAY BE USED.

Minimum clearance to combustibles on venting is 1" with the following exceptions as follows: top of horizontal pipe $2^{1/2}$ ", top of 90 degree pipe 3".

Venting terminal shall not be recessed into a wall or siding. If finishing the outside wall with vinyl or wood siding it is recommended that a Siding Shield be installed, Part Number ZDVSSLR.

- 1 In accordance with the current CSA B149.1, Natural Gas and Propane Code.
- 2 In accordance with the current ANSI Z223.1/NFPA 54, National Fuel Gas Code.
- 3 A vent shall not terminate directly above a sidewalk or paved driveway that is located between two single family dwellings and serves both dwellings.
- 4 Permitted only if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.
- 5 Clearance in accordance with local installation codes and the requirements of the gas supplier.

Venting Routes And Components

Since it is very important that the vent system maintain its balance between the combustion air intake and the flue gas exhaust, certain limitations as to vent configurations apply and must be strictly adhered to.

The table showing the relationship between vertical and horizontal side wall venting will help to determine the various vent lengths.

The maximum horizontal run with the 90 degree bend at the fireplace flue outlet is 5 ft/153cm (Figure #1). The maximum horizontal run is 15 ft/458cm when the vertical run is 8 ft/244cm) (Figure #2). Note:

2 1/4" vertical rise is required for every 12" of horizontal run.

The maximum number of 45 degree bends per side wall installation is two (2) in the horizontal run and then you must reduce the length of the horizontal by 18 inches for each 45 degree bend.

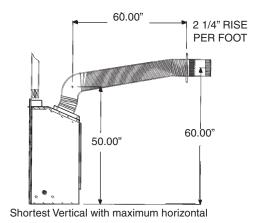
The maximum vertical rise is 40 ft/12.2 meters.

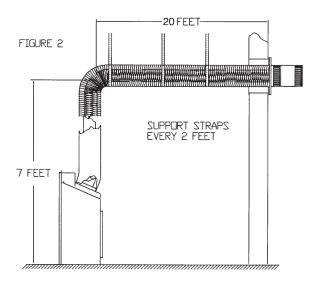
Special Note: For each 45 degree bend installed in the horizontal run, the length of the horizontal run must be reduced by 18" (45cm). This does not apply if the 45 degree bends are installed on the vertical part of the vent system.

Example: If according to the table, the length of the horizontal run is 10 feet, and two 45 degree bends are required, the horizontal run length must be reduced to 7 feet.

2 additional 90° bends or equals are allowed. The horizontal run must be reduced by 36" per each 90° bend, or 18" per each 45° bend.

Important: Always locate the fireplace in such a way that a minimum of offsets and/or horizontal runs are required. 2 1/4" vertical rise is required for every 12" horizontal run.





How To Use The Vent Table

- Determine the height of the system and the number of bends required.
- 2. Having determined the vertical distance determine the maximum horizontal section allowed.
- Vent table has been established for 90° horizontal/vertical runs.
 With use of flex pipe distance not having 90° bends will not fall into vent table standards. See Fig. B.

Venting Table From Bottom of Fireplace

for venting to a maximum of 40 ft. (12.2 meters)

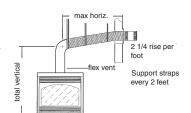
Tota	l Vertical	Max Total	Horizontal
Feet	Meters	Feet	Meters
4	1.2	5	1.5
5	1.5	8	2.4
6	1.8	12	3.7
7	2.1	20	4.6
8	2.4	20	4.6
9	2.7	20	4.6
10	3.0	20	4.6
11	3.4	20	4.6
12	3.7	20	4.6
13	4.0	20	4.6
14	4.3	20	4.6
15	4.6	20	4.6
16	4.9	20	4.6
17	5.2	20	4.6
18	5.5	20	4.6
19	5.8	20	4.6
20	6.1	20	4.6
25	7.5	15	4.6
30	9	10	3.0
40	12.2	0	0

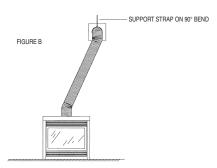
Example A:

If the vertical dimension from the floor of the fireplace is 6ft, the horizontal run to the wall flange of the vent termination must not exceed 12ft.

NOTE: The final location of the fireplace must be such that the horizontal vent dimensions fall within those stated on the graph. The Maximum Vertical vent run is 40ft. (12.2 meters).

Important: Minimum clearance between vent pipes and combustible materials is 1 inch (25mm).





It is recommended for **Propane Horizontal Installations** that the venting should be a minimum of one foot vertical off the flue before the elbow on any horizontal runs of one foot or greater. This allows for cleaner combustion and greatly reduces carboning and cleaning of glass.

General Vent Installation Information

This gas appliance is approved to be vented either through the side wall or vertically through the roof. Only Kingsman venting kits and components specifically approved and LABELED for this stove may be used.

Flex Pipe Venting

The 5" and 7" Flex pipe is shipped expanded. The 7" flex pipe can be compressed. The 5" flex is stainless steel and cannot be compressed. Therefore, the 5" flex pipe will have to be cut to size to fit properly.

Do not use more than 2 couplers to extend short pipes. Single sections are preferred in an installation attaching at the fireplace and termination.

Place the spring spaces provided approximately every two feet to stabilize 5" flex in the center of 7" flex. When forming bends place spring in bend or before and after. (See Fig. 1).

Horizontal runs require support metal straps every 2 feet. In off set installation support straps should be used to stabilize pipe.

Cut 5" and 7" flex pipe to the point that the 7" protrudes approximately 2 to 3 inches past outer wall and the 5" flex protrudes approximately 2 to 3 inches past the 7" flex. See Fig. 1. Attach the 5" pipe to the termination and secure with sealant and 4 screws then attach the 7" flex to the termination with sealant and 4 screws. Termination may then be moved back to the outer wall and attached to home by screwing into the framing. Silicone around termination to waterproof. If siding shield is going to be used attach at this time using same attaching hole at top of terminations after termination has been caulked for water proofing.

Use Hi Temp Sealant

Apply a bead of mill pac high temp sealant to all joints and clamp with screw type clamps provided at fireplace, termination and any joint if joining any sections of pipe.

FRAMING DIMENSION

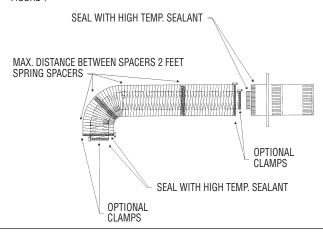
Combustible Wall

Cut a 11" hole through exterior wall and frame as shown below.

Non combustible Wall

Cut or drill 8" or 204mm diameter hole.

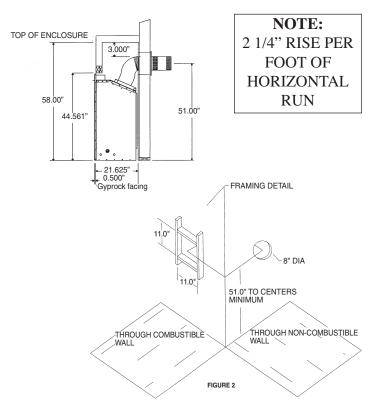
FIGURE 1



NOTE: It is critical to the proper and safe operation of this fireplace that on all connections the inner liner and the outer casing are both caulked with liberal amounts of sealant. Do not use any kind of tape or silicone other than that recommended in this manual. Mill Pac Sealant

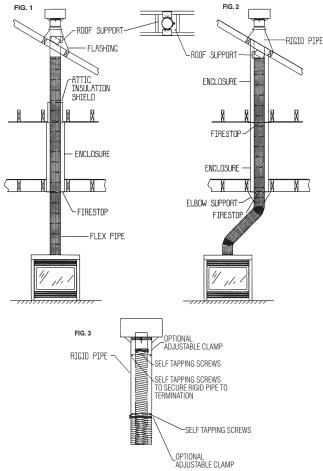
Installation Of Side Wall Venting

- The minimum distance from the bottom of fireplace to centre of vent is 51 inch
 (130 cm) (See Figure 1). Cut a hole through the wall allowing for a 11" x 11"
 (inside diameter) in combustible walls for wall thimble or an 8" diameter hole in a
 non-combustible wall (See Figure 2).
- Note clearance to combustible above 90 degree bend in low profile enclosures 58" is 3"
- Select the approximate vent length, precise measurements are not needed as your flex pipe can be expanded to twice its shipped length for ease of installation.
- 4. To install wall thimble centre over 11" x 11" (inch) framing from both sides of wall and secure. Route flex vent pipe through wall thimble (See Figure 1).
- 5. Before joining pipes, apply a bead of high temperature sealant (Mill Pac) to end of pipe. First attach the five inch (5") flue pipe to the vent termination with sealant and secure with 4 screws provided. At this time make sure the spacer springs are attached to the (5") flex pipe as required. Then attach the seven inch (7") pipe by the same method.
- Mount vent termination and seal to wall using caulking around the wall thimble to weather proof. After installing the vent termination, double check to make sure the pipe extends properly through wall thimble and into vent termination.
- 7. Before joining pipes to fireplace flue, apply a bead of high temperature sealant (Mill Pac) to end of pipe. First attach the five inch (5") flue pipe to fireplace with sealant, then secure with 4 screws provided. At this time verify that the spacer springs are attached properly to the (5") flex pipe as required. Then attach the seven inch (7") pipe by the same method.
- Support horizontal pipes every two (2) feet (61 cm) with metal strap bands.Re-check fireplace to make sure it is levelled and properly positioned and secured.
- 9. Support vertical pipes to maintain a minimum of 1" or greater clearance to combustibles with metal strapping bands.
- If finishing the outside wall with vinyl or wood siding it is recommended that a Siding Shield be installed, Part Number ZDVSSLR.



Venting Straight Up Through Roof

- An Attic Insulation Shield must be installed where the vent passes from a lower living space into an attic space where the chimney is not enclosed. It is designed to keep insulation materials away from the chimney. See Fig. 1.
- 2. When installing the Attic Insulation Shield where the chimney passes from a living space to an attic space, install the shield from below and nail in place using 1" spiral nails.
- A fire stop must be installed on the bottom side of the joists when passing through a ceiling or floor. If an attic insulation shield is to be used, a fire stop is not required.



Using Flex Bends

- 4. Avoid cutting joists by offsetting the flex pipe. See Fig. 2.
- When using 45° bends a bend support is required directly above the highest bend.
- 6. When installing a bend in a joist area a minimum of 4" clearance from combustible to the top of bend must be maintained, sides and bottom of pipe, a 1" clearance to combustibles must be maintained. If running horizontally through an area a 21/2" clearance to the top of the horizontal pipe must be maintained.
- 7. Maximum vertical height of system should not exceed 30 feet.
- 8. Use roof support and 7" rigid pipe at roof level. Flex not permitted with in roof support.
- 9. When penetrating the roof a rigid 7" galvanized pipe must be used. Attach the 7" flex to the 7" rigid with high temperature sealant and use four screws/washers assuring the flex and rigid pipe are secured. 5" flex pipe must be secured the same way with 4 screws and washers, ensure that the screws penetrate the 5" flex and 5" section of termination. Attach 7" rigid pipe to 7" termination with sealant and screw with 4 sheet metal screws. (See Fig. 3).
- 10. Vertical termination clearance is 18" (inches) above the roof, measured from highest point of exit on the roof line.
- Support vertical pipes to maintain minimum of one inch or greater clearances to combustibles.

Roof Flashing

Ensure that you have the proper roof flashing by checking your roof pitch using a level and two rulers, or by using a roof pitch card. See figure below.

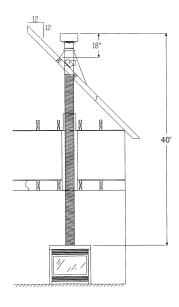
Slide a Roof Flashing suitable to your roof slope over the vent. Place the edge of the flashing plate that will be on the higher part of the roof slope under the shingles. Both the sides and the lower edge lay on top of the shingles.

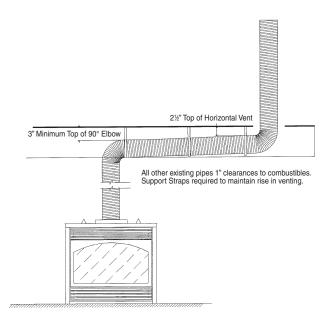
NOTE: At the top edge of the flashing plate, lift the shingles and nail the plate to the roof deck, then cement the shingles to the plate with a suitable waterproof mastic.

Ensure that the chimney is plumb. Square up the flashing plate and nail in place to the roof deck. Use 12 nails with neoprene washers or cover the heads with a suitable waterproof mastic.

Wrap the storm collar around the vent above the flashing. Secure the ends together loosely with nut and bolt supplied. Slide the collar down the vent until it comes in contact with the flashing. Tighten the bolt and seal the Storm Collar to the vent with a suitable waterproof non-combustible mastic.

The flashing and storm collar should be painted to match the roof shingles. This will extend its life and improve the appearance. Clean, prime and paint with suitable painting products.





Parts List

Replacement	Burner Assembly	Grills	
5245-BNGSI	BURNER ASSEMBLY - C/W VALVE SYSTEM FOR	Z52GBA	Grill Kit - Cl
32 13 B1 (GS1	MODEL ZDV5245N NATURAL GAS	Z52GBA Z52GBC	Grill Kit - Cl
5245-BLPSI	BURNER ASSEMBLY -C/W VALVE SYSTEM FOR	Z52GBC Z52GBP	Grill Kit - Cl
	MODEL ZDV5245LP LIQUID PROPANE		
Valve Systen		Z52GBL	Grill Kit - Bl
`	er is LESS than 521210)	Z52GAB	Grill Kit - Aı
1000-P136WR	Thermopile GOAI-524	Z52GPB	Grill Kit - Po
1001-P035SI	Electrode Sparker 915.035 SIT	Z52GCR	Grill Kit - Cl
1001-P129SI	Thermocouple 290.129 SIT unified	Z52PBL	Panel Grill K
1001-P157SI	Orifice Pilot LP 977.157 SIT		
1001-P159SI	Orifice Pilot NG 977.159 SIT	Log Sets - A	Approved
1001-P515SI	HT Cable 24	LOGF18	LOG SET - I
1001-P633SI 1001-P634SI	Valve Nova LP Hi/Lo 0820633 Valve Nova NG Hi/Lo 0820634	LOGF24	LOG SET - 1
1001-P605SI	Pilot Burner LP 190.605 unified SIT	LOGF30	LOG SET - I
1001-P606SI	Pilot Burner NG 190.606 unified SIT		ECC DET
Valve System		Firenlace A	ccessories O
	er is GREATER than 521209) New Top Convertible SIT	Z52SAB	·
1000-P136WR	Thermopile GOAI-524	Z32SAB	Surround - A (Coverage 4:
1001-P069SI	Electrode Sparker 915.069 TC SIT	Z52SCR	Surround - C
1001-P216SI	Thermocouple 290.216 TC SIT	ZJZSCK	(Coverage 4:
1001-P165SI	Orifice Pilot NG 977.165 TC SIT	Z52SPB	Surround - P
1001-P167SI	Orifice Pilot LP 977.167 TC SIT		(Coverage 4:
1001-P515SI	HT Cable 24	Z52SLAB	Surround Sli
1001-P633SI	Valve Nova LP Hi/Lo 0820633		(Coverage 4
1001-P634SI	Valve Nova NG Hi/Lo 0820634	Z52SLCR	Surround Sli
1001-P713SI	Pilot Burner LP 199.713 TC SIT		(Coverage 4
1001-P714SI	Pilot Burner NG 199.714 TC SIT	Z52SLPB	Surround Sli (Coverage 4
Miscellaneou	ıs Parts	Z52SLBL	Surround Sli
1000-150GE	#SILICONE GE RED IS806 #736	Z323LDL	(Coverage 4
1000-150MP	#HI-TEMP MILL PAC SEALANT 840099		(
1000-214	#PIEZO-IGNITER 1244-17 MARK 21	Z52ADBL	Arch Door F
1000-215	#PAL NUT (18MMXI.5MM)BLK (1364.03)	Z52ADDX	Arch Door F
1000-218	#SWITCH IVORY (1451/001)	Z52ADTH	
1000-227	#COVER IVORY (86001/001)		Arch Door F
1000-255	#ORIFICE BRASS - (State Size)	Z52ADDA	Arch Door F
		Z52ADDD	Arch Door F
1000-EMBER	#GLOWING MOON ROCK		
3800-134	#EXPLOSION FELT GASKET	Z36FK	Fan Kit w/Va
2000-080	#THERMODISC 2450 (For Blower)		(Temperature
2000-081	#BLOWER MOTOR QLN65/2400	Z52RL	Refractory B
1000-085	#CONTROL VARIABLE SPEED KBWC-13BV	Z1MT	Thermostat I
1000-306	THERMALCORD - ADHESIVE BACK FOR DOOR FRAME	Z80PT	Thermostat I Wall Mount
Fireplace Pai	rt Numbers	Z1RC	Remote Con (Model I)
-		ZART	Remote Con
ZDV5245N	FIREPLACE DECORATIVE RATED (AS ABOVE) NG, TEMPERED GLASS, 47,000 BTU	RMCBN	Remote Con
ZDV5245LP	FIREPLACE DECORATIVE RATED (AS ABOVE)		(On/Off, Hi/
02.021	LP, TEMPERED GLASS, 40,000 BTU	RMCBP	Remote Con
			(On/Off, Hi/
			(011/011,111/.

FIREPL	ACE	DEOII	IDEM	IENITC:
	\sim	IVE CO		ILIV I 3.

Grills			
Z52GBA	Grill Kit - Classic Builder Antique Brass		
Z52GBC	Grill Kit - Classic Builder Chrome		
Z52GBP	Grill Kit - Classic Builder Polish Brass		
Z52GBL	Grill Kit - Black		
Z52GAB	Grill Kit - Antique Brass		
Z52GPB	Grill Kit - Polish Brass		
Z52GCR	Grill Kit - Chrome		
Z52PBL	Panel Grill Kit - Black		
Log Sets - A	Approved		
LOGF18	LOG SET - FIBRE SPLIT OAK 18"		
LOGF24	LOG SET - FIBRE SPLIT OAK 24"		
LOGF30	LOG SET - FIBRE SPLIT OAK 30"		
Firenlace A	ccessories Options:		
752SAB	Surround - Antique Brass		
23251 ID	(Coverage 45" H x 53 7/8" W)		
Z52SCR	Surround - Chrome (Coverage 45" H x 53 7/8" W)		
Z52SPB	Surround - Polish Brass (Coverage 45" H x 53 7/8" W)		
Z52SLAB	Surround Slim Line - Antique Brass (Coverage 44 3/4" H x 53 1/2" W)		
Z52SLCR	Surround Slim Line - Chrome (Coverage 44 3/4" H x 53 1/2" W)		
Z52SLPB	Surround Slim Line -Polish Brass (Coverage 44 3/4" H x 53 1/2" W)		
Z52SLBL	Surround Slim Line -Gun Metal Black (Coverage 44 3/4" H x 53 1/2" W)		
Z52ADBL	Arch Door Frame - Black		
7.52ADDX	Arch Door Frame - Deluxe Black (352)		
Z52ADTH	Arch Door Frame - Top Half Black (353T)		
Z52ADTH Z52ADDA	Arch Door Frame - Double Arch Black (354)		
Z52ADDA Z52ADDD	Arch Door Frame - Double Door Arch Black (355)		
	Alcii Dooi Flaine - Double Dooi Alcii Black (555)		
Z36FK	Fan Kit w/Variable Wall Mount Speed Control (Temperature Sensing)		
Z52RL	Refractory Brick Liner (3 Pce.)		
Z1MT	Thermostat Millivolt Wall Mount		
Z80PT	Thermostat Willivolt Wall Mount Thermostat Programmable Digital Millivolt Wall Mount (1F80-40)		
Z1RC	Remote Control Millivolt (On/Off with LED) (Model I)		
ZART	Remote Control Thermostat Millivolt (Model K)		
RMCBN	Remote Control - Basic - Natural Gas		
	(On/Off, Hi/Lo Flame Adjustment)		
RMCBP	Remote Control - Basic - Liquid Propane		
	(On/Off, Hi/Lo Flame Adjustment)		
DOITE	• •		

Remote Control Heatshield

DCHS

Kingsman Fireplace Venting

Catalog Number	Description
Z52HSK	Horizontal Vent Starter Kit - 3 FT Length, 5/7" Horizontal Vent Termination, Wall Thimble,
	36" Flex Pipe, Mill Pac.
Z52FK5	* Flex Kit (5" Stainless & 7" Aluminum - Dia) 5'expanded
Z52FK8	* Flex Kit (5" Stainless & 7" Aluminum - Dia) 8'expanded
Z52FK20	* Flex Kit (5" Stainless & 7" Aluminum - Dia) 20'expanded * kits are complete with spring stand-offs, silicone
F52VVT	Vertical Termination
F52HVT	Horizontal Termination
Z52HST	Horizontal Snorkel Termination (34" tall, 24" Center to Center)
FDVHSC	Safety Cage for Horizontal Termination
ZDV5FC	Flex Connector 5" Diameter
ZDV7FC	Flex Connector 7" Diameter
ZDV5SS	Spring 5" Standoff Spacer
ZDVAIS	Attic Insulation Shield
ZDVVOS	Offset Support
ZDVFS	Firestop Spacer
ZDVRS	Roof Support
ZDVWT	Wall Thimble (Horizontal Venting)
ZDVSS	Siding Shield
ZDV48GP	Galvanized pipe 7" diameter x 48" (vertical installations)
ZDVAAF	Flashing 7" c/w Storm Collar (1/12 to 7/12)
ZDVAF2	Flashing 7" c/w Storm Collar (8/12 to 12/12)
ZDVAF3	Flashing 7" c/w Storm Collar Flat
ZDV7SC	Storm Collar 7"

Conversion	on Kits (SIT Valve only)
5245-CKLP	LP Conversion Kit
5245-CKNG	NG Conversion Kit

Trouble Shooting The Gas Control System

WARNING: BEFORE DOING ANY GAS CONTROL SERVICE WORK, REMOVE THE GLASS FRONT.

 $NOTE: Before \ troubleshooting \ the \ gas \ control \ system, be \ sure \ external \ gas \ shut \ off \ is \ in \ the \ "On" \ position.$

Problem	Possible Causes	Corrective Action	
Spark igniter will not light.	Defective or misaligned electrode at pilot.	Check for spark at electrode and pilot: if no spark and electrode wire is properly connected, replace igniter.	
	Defective igniter (push-button)	Using a match, light pilot. If pilot lights, turn off pilot and push the red button again. If pilot will not light - check gap at electrode and pilot should be 1/8" to 1/4" to have a strong spark.	
Pilot will not stay lit after carefully following lighting instructions.	Defective thermocouple (flame switch where applicable)	Check pilot flame. Must impinge on generator and thermocouple. Clean and/or adjust pilot for maximum flame impingement on generator and thermocouple. Replace thermocouple if pilot will not hold. (Hand tight 1/8 turn on replacement)	
	Defective valve magnet.	Replace valve, if pilot won't hold after the thermocouple is replaced.	
Pilot burning, no gas to burner, Valve knob "ON", Wall Switch "ON"	Wall switch or wires defective.	Check wall switch and wires for proper connections. Jumper wire across terminals at wall switch. If burner comes on, replace defective wall switch. If okay, jumper wires, across wall switch wires at valve. If burner comes on, wires are faulty or connections are bad.	
	Generator may not be generating sufficient voltage.	Check generator with millivolt meter. Take reading at generator terminals of gas valve. Should read 325 millivolts minimum while holding valve knob depressed in pilot position and wall switch "off" Replace faulty generator if reading is below specified minimum.	
	Plugged burner orifice.	Check burner orifice for stoppage and remove.	
	Defective automatic valve operator.	Remove wall switch wires from gas valve. Install jumper wires from top bottom terminals of gas valve. Turn valve on "ON". If main burner does not light, replace valve.	
Frequent Pilot outage problem.	Pilot flame may be too low or blowing (high) causing the pilot safety to drop out.	Clean and/or adjust pilot flame for maximum flame impingement on generator and thermocouple.	
Flame lifts off burner and goes out in less than 30 seconds	Inner 4" liner has come off flue or termination, flame is starving for oxygen	Attach 4" liner to flue or termination using screws, silicone and clamps as stated in manual	
Flame lifts off burner on one side while the rest of the flame remains lit.	Improper installation of firebrick. Firebrick is likely leaning.	Be sure to position firebrick against firebox walls and be sure to use brick clips attached to the inner side of firebox.	





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.

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 distributors 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.