# Installation Manual



# HORIZON

Direct Vent Zero Clearance Gas Fireplace natural gas 534JN propane gas 534JP

Installer: Place model/serial number here.

Installer: Leave this manual with the appliance. Consumer: Retain this manual for future reference.

# **⚠ WARNING:**FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

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

### WHAT TO DO IF YOU SMELL GAS

Do not try to light any appliance.

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

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

# **⚠ DANGER**



Hot glass will cause burns.

Do not touch glass until cooled.

Never allow children to touch glass.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and must be installed for the protection of children and other at-risk individuals.

This appliance may be installed in an after-market 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.

INSTALLER: Leave this manual with the appliance.

CONSUMER: Retain this manual for future reference.

#### Massachusetts:

The piping and final gas connection must be performed by a licensed plumber or gas fitter in the State of Massachusetts. Also, see Carbon Monoxide Detector requirements, page 43.

#### **△WARNING**

This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Note: Natural gas, in its original state, contains Benzene.

This manual contains instructions to install the **ENGINE ONLY.** A trim kit is **REQUIRED** to complete the installation. A barrier screen is provided with the trim kit. **Refer to the manual supplied with the trim for installation.** 

This appliance is a domestic roomheating appliance. It must not be used for any other purposes such as drying clothes, etc.

This appliance is suitable for installation in a bedroom or bed sitting room.

Ce guide est disponible en français sur demande.



We recommend a US Certified National Fireplace Institute (NFI) specialist install our gas hearth products.





The information contained in this manual is believed to be correct at the time of printing. Miles Industries Ltd. reserves the right to change or modify any information or specifications without notice. Miles Industries Ltd. grants no warranty, implied or stated, for the installation or maintenance of your heater, and assumes no responsibility for any consequential damage(s).

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#### **Valor Fireplaces**

190–2255 Dollarton Highway North Vancouver, BC, Canada V7H 3B1 T 604.984.3496 F 604.984.0246 valorfireplaces.com

# Welcome to Valor®

This appliance has been professionally installed by
Dealer Name:
Phone:

# Please read this manual BEFORE installing and operating this appliance.

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# Fireplace Safety

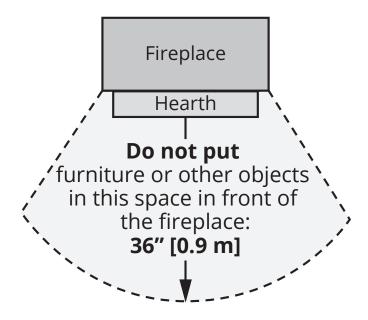
This manual contains very important information about the safe installation and operation of the fireplace. Read and understand all instructions carefully before installing and operating the fireplace. Failure to follow these instructions may result in possible fire hazard and will void the warranty.

Replacement manuals are available by contacting the Valor Customer Service at 1-800-468-2567, or by visiting valorfireplaces.com.

### WARNING: Extremely Hot!

### Heat and flammability

- Some parts of the fireplace are extremely hot, particularly the glass windows. Use the barrier screens provided or a gate to reduce the risk of severe burns.
- The glass windows can exceed 500°F at full capacity.
- · Always keep the appliance clear and free from combustible materials, gasoline, and other flammable vapors and liquids.
- Be aware of hot wall surfaces! The walls directly above the fireplace can get very hot when the fireplace heats. Although safe, it may reach temperatures in excess of 200°F (93°C) depending on choice of optional accessories. Do not touch!
- Be aware of hot hearth/floor surfaces! Any projections directly around the fireplace can get very hot when the fireplace heats. Although safe, they may reach temperatures in excess of 200°F (93°C)depending on elevation of hearth. Be careful of touching these! Temperature of projection surfaces will be reduced when barrier screens are installed.
- · Some materials or items, although safe, may discolor, shrink, warp, crack, peel, and so on because of the heat produced by the fireplace. Avoid placing candles, paintings, photos and other combustible objects sensitive to heat or furniture within 36 inches (0.9 m) around the fireplace.
- Solid wood flooring in front of the fireplace (if allowed) may shrink during the heating season due to heat.
- Due to it high temperatures, the appliance should be located out of traffic areas and away from furniture and draperies.
- Clothing or flammable material should not be placed on or near the appliance.



### **Barrier Screen and Safety**

- A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.
- Children and adults should be alerted to the hazards. of high surface temperature and should stay away to avoid burns or clothing ignition.
- Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children, and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at-risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children, and other at-risk individuals out of the room and away from hot surfaces.
- · Any safety screen, guard, or barrier removed for servicing an appliance must be replaced prior to operating the appliance.

# Fireplace Safety

#### Glass windows



### /!\ WARNING

Do not operate this appliance with the glass front removed, cracked, or broken.

Do not strike or slam the glass front.

Replacement of the glass front should be performed by a licensed or qualified service person.

- The glass front assemblies must be in place and sealed before the unit can be placed into safe operation.
- The glass front assemblies must only be replaced as complete units, as supplied by the fireplace manufacturer. No substitute material may be used.
- Do not use abrasive cleaners on the glass front assemblies. Do not attempt to clean the glass when it is hot.

### Venting

- This unit must be used with a vent system as described in this manual. No other vent system or components may be used.
- Never obstruct the flow of combustion and ventilation air. Keep the front of the appliance clear of all obstacles and materials for servicing and proper operation.
- This gas fireplace and vent assembly must be vented directly to the outside and must never be attached to a chimney serving a separate solid fuel burning appliance. Each gas appliance must use a separate vent system. Common vent systems are prohibited.

#### Intended use

- This appliance is designed and approved as a supplemental heater and provides the potential for most energy conservation when used while attended. The use of an alternate primary heat source is advisable.
- This unit is not for use with solid fuel.
- Do not use this heater as a temporary source of heat during construction.

### Installation and Servicing

- 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 might be required due to excessive lint from carpeting, bedding material, et cetera. It is imperative that control compartments, burners, and circulating air passageways of the appliance be kept clean.
- Do not use this appliance is 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 that has been under water.

# **Specifications**

### **Approval & Codes**

This appliance is certified to ANSI Z21.88/CSA 2.33 American National Standard / CSA Standard for Vented Gas Fireplace Heaters for use in Canada and USA, and to CGA 2.17-M91 High Altitude Standard in Canada. This appliance is for direct vent installations.

This appliance complies with CSA P.4.1-15 Testing method for measuring annual fireplace efficiencies.

The installation must conform to local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54 or the Natural Gas and Propane Installation Code CAN/CGA-B149.1. Only qualified licensed or trained personnel should install this appliance.

This appliance must be electrically grounded in accordance with local codes, or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70 or the Canadian Electrical Code, CSA C22.1.

### Ratings

Model	534JN	534JP	
Gas	Natural Propan		
Altitude (Ft.)*	0-4,500 feet*		
Input Maximum (Btu/h)	24,000	24,000	
Input Minimum (Btu/h)	6,500	13,000	
Manifold Pressure (in w.c.)	3.95"	10"	
Minimum Supply Pressure (in w.c.)	5"	11"	
Maximum Supply Pressure (in w.c.)	10"	14"	
Main Burner Injector Marking	82-650	92-260	
Pilot Injector Marking	35	27	
Min. Rate By-Pass Screw	125	125	

### \*High Altitude Installations

Input ratings are shown in BTU per hour and are certified without deration for elevations up to 4,500 feet (1,370 m) above sea level.

For elevations above 4,500 feet (1,370 m) in USA, installations must be in accordance with the current ANSI Z223.1 and/or local codes having jurisdiction. Heating value of gas in some areas is reduced to compensate for elevation—consult your local gas utility to confirm.

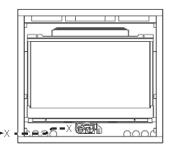
For installations at elevations above 4,500 feet (1,370 m) in Canada, please consult provincial and/or local authorities having jurisdiction.

### **Supply Gas**

Heater engine 534JN is used with natural gas.

Heater engine 534JP is used with propane gas.

The supply pressure must be between the limits shown in the Ratings section.



The supply connection is 3/8" NPT. The opening of the gas supply line is at the left side of the appliance.

### **Venting Options**

### Co-axial direct vent installations (solid piping)

A list of all approved venting accessories can be found in section *Approved Venting Components* pages 41–42 in this manual.

Note: An 817VAK Vent Adapter is required in all cases.

### Co-linear direct vent installations (flexible piping)

Converts the appliance outlet collars to accept two 3-inch diameter flex liners for installation into existing solid-fuel burning fireplaces and chimneys. requires a co-linear adapter at the appliance and either a co-linear terminal or co=linear-to-co-axial adapter and terminal at the top of teh chimney. A list of approved venting accessories can be found in section *Approved Venting Components* pages 41–42 in this manual.

#### **Gas Conversion**

The 534J fireplace is offered with natural gas or propane gas. It can be converted from one gas to the other. See installation manual supplied with the gas conversion kit for more information.

#### **Outdoor Conversion Kit**

The 534J model is supplied standard for indoor applications and may be adapted for installation in specific "outcoor" applications protected from weather as defined in the GV60CKO Outdoor Conversion Kit manual.



### WARNING

NO ELECTRICAL CONNECTION ALLOWED for any outdoor installation!

# **Kits & Accessories**

### **Required Kits**

Fuel Beds (c	hoose one)		
534LSK	Traditional Log Set		
534RSK	Rock Set		
534DWK	Driftwood Kit		
Liner Panels	(choose one)		
621VRL	Valor Red Brick Liners		
622LSL	Ledgestone Liners		
620FBL	520FBL Fluted Black Liners		
618RGL	618RGL Reflective Glass Liners		
Fronts (choo	ose one)	Barrier Screen	
602CFB	Traditional Cast Front	4003294	
610FVI	FenderFire Double Door Front	porte	
645CFV	Clearview Front	4004875	
672MBF	Matt Black Front	4004666	
673	Edgemont Door Fronts, different colors	4005065	

### **Optional Accessories**

Gas Conversion Kits					
534PGK	Conversion to propane gas				
534NGK	Conversion to natural gas				
Other Accessories					
GV60CKO*	Outdoor Fireplace Conversion Kit				
755CFK*	Circulating Fan Kit				
1265WSK	Wall Switch Kit				
RBWSK	Remote Battery & Wall Switch Kit				
Hearth Gate	Hearth gates such as Cardinal's VersaGates are available at retail stores carrying safety products for children.				

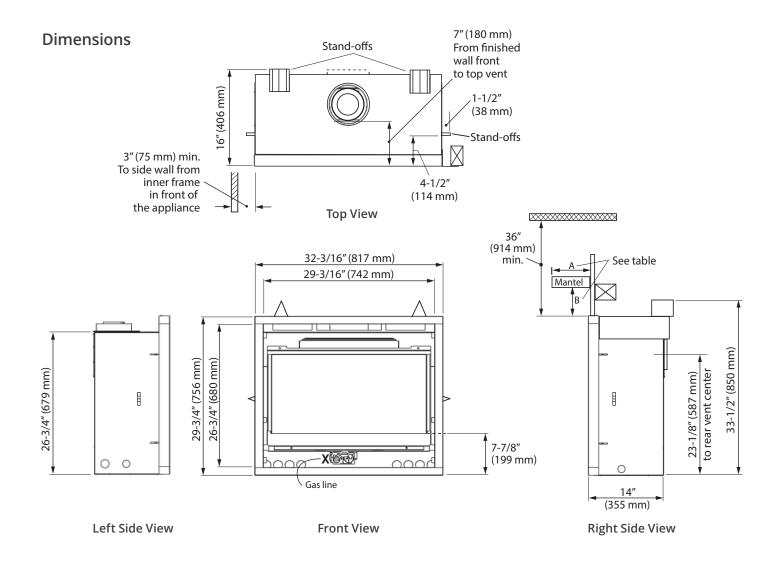


## **⚠** WARNING

\* NO ELECTRICAL CONNECTION ALLOWED for any outdoor installation!

Information accurate at the time of printing and subject to change without notice.

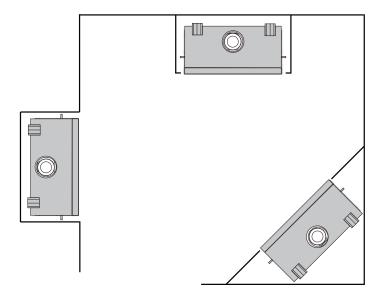
# **Dimensions & Clearances**

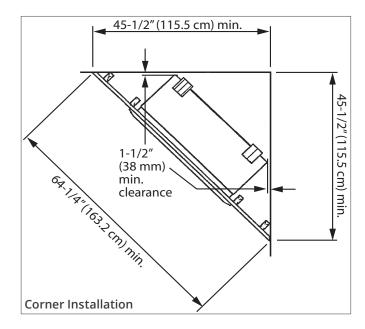


### Clearances—Mantel or Shelf

Mantle depth	1"	2"	3"	4"-5"	6"	7"	max. 8"-12"
"A"	[25 mm]	[51 mm]	[76 mm]	[102-127 mm]	[152 mm]	[178 mm]	max. [203-305 mm]
Mantel	7"	8"	9"	10"	11"	12"	14"
clearance "B"	[178 mm]	[203 mm]	[229 mm]	[254 mm]	[279 mm]	[305 mm]	[356 mm]

# Location





### **Fronts and Trims**

For fronts and trims dimensions, refer to instructions provided with each kit.

### Floor/Hearth

This appliance is approved for installation directly on combustible material such as plywood and so on. Vinyl, carpet, and soft flooring require sheet metal extending the whole width and depth under the appliance.

This appliance does not require a hearth. Combustible flooring may extend up to the front of the unit.

# **Before Installing**

# **Planning**



### /!\ Attention

ONLY qualified licensed or trained personnel should install this appliance.

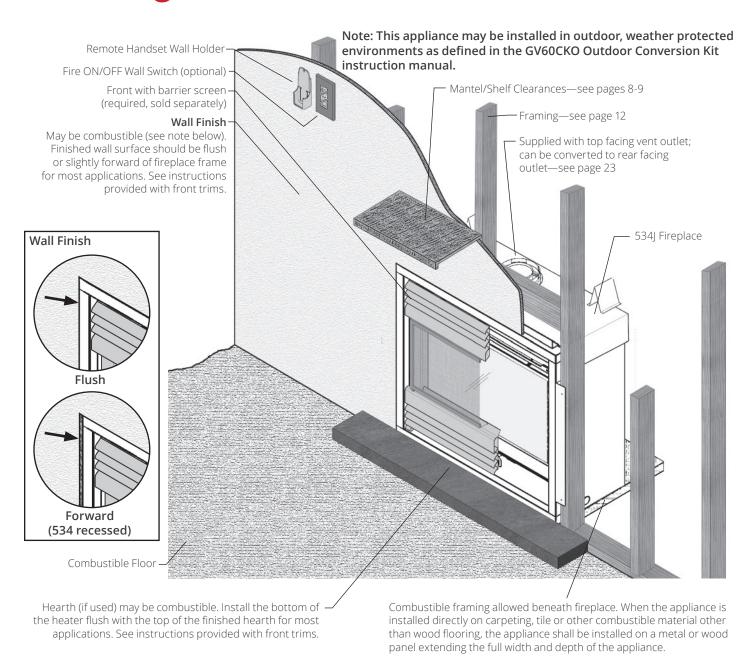
- 1. BEFORE YOUR START, YOU NEED TO KNOW FROM THE HOMEOWNER:
  - · Required accessories to install with fireplace (liners, fuel bed, front, trim);
  - Height of appliance and hearth, if used;
  - · Thickness an type of wall finish around appliance's opening;
  - · Venting configuration;
  - Optional accessories, if used.
- 2. Unpack the appliance, removing all items packed inside and around it. Recycle packaging.
- 3. Check that you have everything required for the installation, using the Pack Content sheet. Also, check that you have:
  - Fuel bed (packed separately);
  - Liner panels (packed separately);
  - Venting accessories;
  - · Gas conversion kit, if necessary;
  - Optional accessories;
  - Electrical accessories\*, if necessary.
- 4. Carefully read the Installer's Checklist included with the fireplace for the installation sequence. Read also this manual and the fronts/trims manuals to have all information necessary for the installation.



### **WARNING**

\* NO ELECTRICAL CONNECTION ALLOWED for any outdoor installation!

### **Planning** Overview





### ✓ WARNING

**SAFETY WARNING!** The Horizon is a very effective radiant heater.

HOT WALL SURFACES! The wall directly above the fireplace may be constructed of combustible materials and, although safe, may become very hot when the fireplace is operating. Do not touch! Finish the wall directly above the fireplace using materials and methods suitable for elevated temperatures.

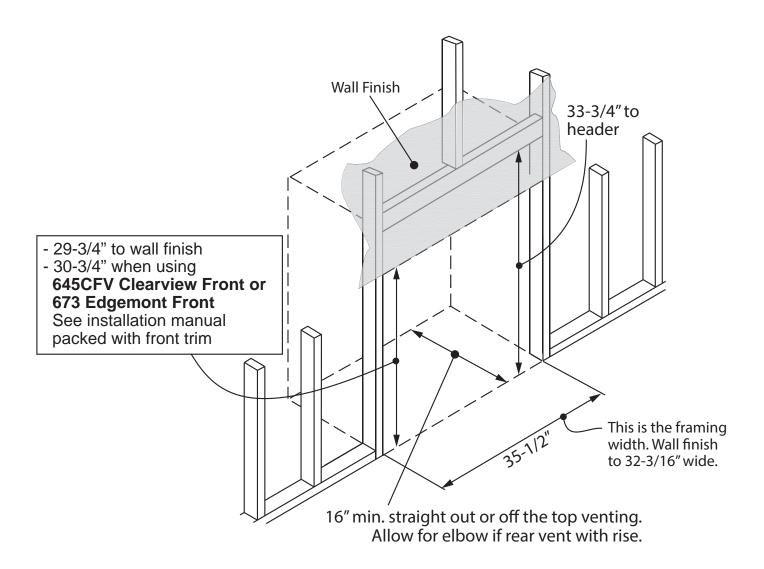
HEARTH/FLOOR SURFACES! The hearth/floor in front of the fireplace can get very hot. Locating the unit raised above the hearth/floor and using the screen front will help reduce hearth temperatures. Note that some materials, although safe can degrade due to heat—take this into consideration when choosing materials.

Planning Framing

- A non-combustible hearth is not necessary in front of this appliance.
- Note that the appliance is installed at the framing stage and secured to framing using support angles.
   See page 24, 26. Wall finish is then installed afterwards over the support angles and up to the perimeter of the unit.

### NOTE

When the appliance is installed directly on carpeting, tile or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance.



# **Planning**

### Wall Finish

#### Plan the Wall Finish

### **Non-Combustible Materials Specifications**

Non-combustible materials are those which will not ignite and burn. Such materials are those consisting entirely of steel, iron, brick, tile, concrete, slate, glass or plasters, or any combination thereof.

Materials that are reported as passing ASTM E 136, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 °C shall be considered non-combustible materials.

### **Combustible Materials Specifications**

Materials made of or surfaced with wood, compressed paper, plant fibers, plastics, or other material that can ignite and burn, whether flame proofed or not, or plastered or unplastered shall be considered combustible materials.

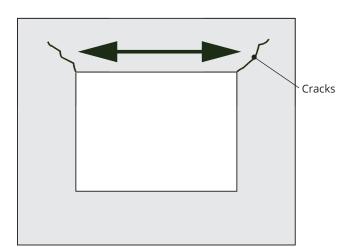
### **Cracking Wall Finishes**

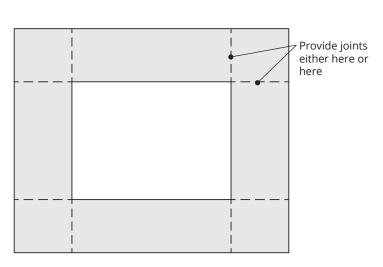
If a clean finish with no tile, etc. is desired, joints in the gypsum board will require special attention if future cracking is to be controlled.

Shrinkage and differential movement of the framing and wall board can transmit cracking through to tiles, etc.

Be aware that temperatures on the wall surface above the appliance can exceed 185°F. Although safe, this is too hot for many many materials and finishes. Choose materials that will withstand these temperatures. Below are some tips on how to best avoid any cracking:

- Allow materials to dry thoroughly before finishing the wall. Some materials, such as cement board has the ability to absorb up to 30 percent of its weight in water and may shrink as much as 1/8" over a 48" length when drying from a saturated condition. Running the fireplace for an extended period before final finishing will help drive out moisture. Moisture is the leading cause of material shrinkage!
- Always pre-drill screw holes through cement board and use screws with self-milling head.
- · Always use mesh tape over joints.
- Always stagger joints in wall board.
- Behind joints, double up studs or use studs "on the flat" to add extra support to the joint. Adhesive on the backside of wall board behind any joints can help control differential movement.
- Use multiple, thinner coats of joint compound and allow to dry thoroughly between coats.
- Ensure framing materials are dry.
- After finishing the wall, introduce heat gradually to slowly dry any excess moisture rather than drying too fast.
- Avoid notching cement board or tiles around corners of window opening and instead provide a joint that intersects the corner.
- Avoid using large, one-piece slab of material with a cut-out in the middle as a surround for the fireplace.
   Expansion above the opening will cause cracking at inside corners. Provide a joint that intersects the inside corner to avoid cracking.





Venting
Overview

### Top or Rear Facing Outlet

This appliance is supplied with a top vent outlet which can be field-converted to a rear facing vent outlet. See page 23 for more information.

#### **Vent Material**

This appliance is approved for installation using  $4 \times 6-5/8$ -inch co-axial direct vent pipe and accessories as listed in *Approved Venting Components* pages 41–42. Follow the installation instructions supplied with the individual venting accessories.

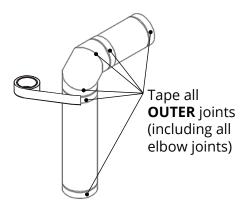
This appliance may also be converted to co-linear venting with two 3-inch pipes for use in solid-fuel burning fireplaces and chimneys using approved adapers and accessories. See *Co-Linear Conversion* pages 21–22 and *Approved Venting Components* pages 41–42.

### **Vent Sealing**

Seal all **outer** co-axial pipe and elbow joints, including sectioned elbow **outer** joints, using high quality, high temperature 2-inch wide self-adhesive aluminum foil tape (Nashua-322-2 brand or similar). Wrap the tape completely around all **outer** joints and press firmly to seal.

A high-temperature black silicone sealant may be used in the **outer** joints as a substitute to foil tape.

Ensure all the pipe joints have a minimum of 1-1/4 inch overlap.



### **Wall Thickness**

The appliance vent is suitable for penetrating a combustible wall assembly up to 14 inches in thickness. A non-combustible wall can be of any thickness up to the maximum horizontal run of vent pipe allowed for the particular installation.

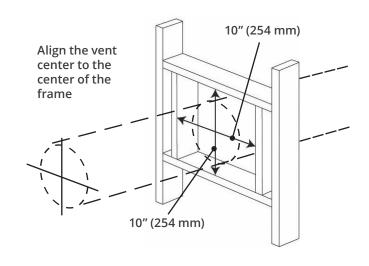
# Vent Penetration Through Walls & Ceilings Combustible

When penetrating through combustible walls and ceilings, frame a minimum of 10 inches x 10 inches opening and ensure that the insulation is kept clear of the vent pipe using either a wall thinble or an attic insulation shiedl. Follow the installation instructions supplied with the individual venting components.

#### Non-combustible

If the wall is totally non-combustible (e.g. masonry block or concrete), mark for a 7-inch circular hole.

In both cases, the center of the hole should line up with the center line of the horizontal vent.



All horizontal pipe runs must be graded 1/4 inch per foot upwards in the direction of the exhaust flow. The final pipe length, when terminating through the wall may be graded downwards slightly to prevent water migration.

**VERTICAL** 

**STORM** 

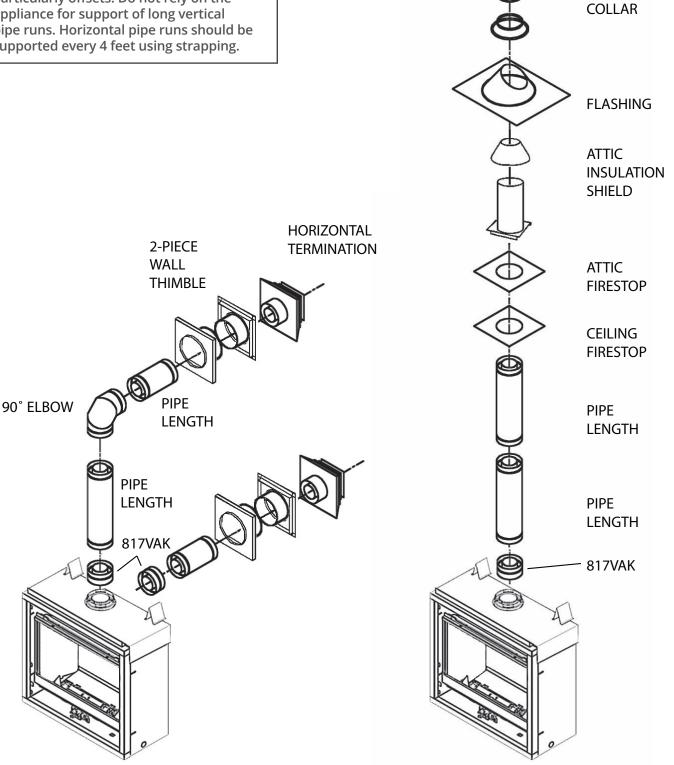
**TERMINATION** 

# Venting

### **Typical Co-Axial Venting Components**

### **IMPORTANT**

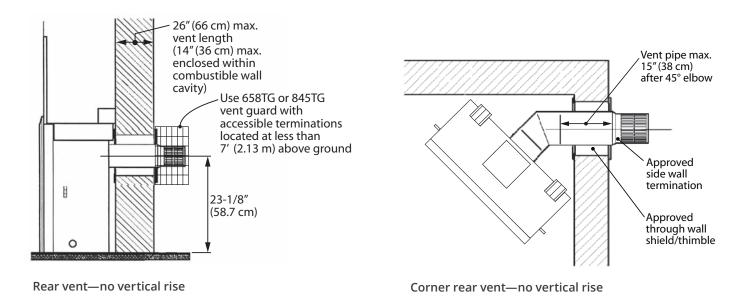
Provide support for vertical pipe runs, particularly offsets. Do not rely on the appliance for support of long vertical pipe runs. Horizontal pipe runs should be supported every 4 feet using strapping.





### Rear Vent—No Vertical Rise

The horizontal vent run cannot be extended by the use of any vent accessory pipes.



### Important Installer Notice—Weather Sealing & Vapor Barrier

It is the installer's responsibility to ensure that vent installations through exterior walls are caulked and weatherproofed in such a manner as to:

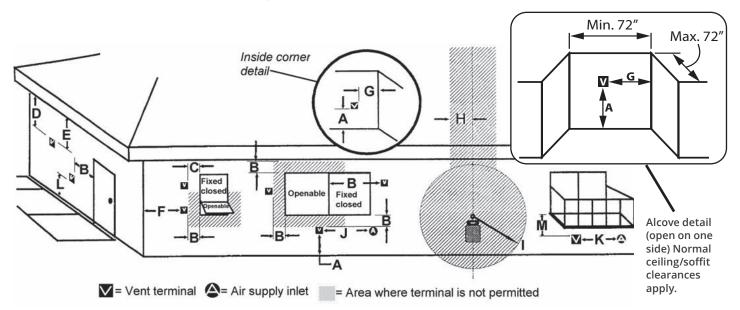
- Prevent rain from entering the wall from the weather side by adequately caulking the outer vent plate to the exterior wall surface.
- Prevent moisture inside the home from penetrating into the wall structure by ensuring the inside wall plate is adequately sealed to the inside vapor barrier.
- Prevent rain water and moisture from entering the walls by sealing the joints between the outer vent tube and the inner and outer wall plates.

We recommend the use of a high quality polyurethane sealant.

#### **Horizontal Vent Termination Location**

- The vent terminal must be located on an outside wall or through the roof.
- This direct vent appliance is designed to operate when an undisturbed airflow hits the outside vent terminal from any direction.
- The minimum clearances from this terminal that must be maintained when located on an outside wall are shown in figure below. Any reduction in these clearances could result in a disruption of the

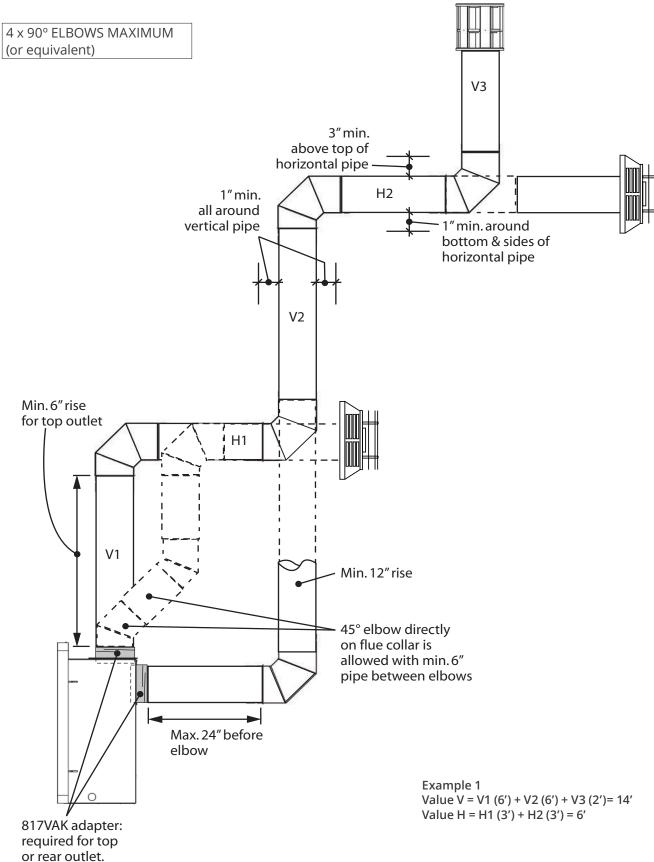
- airflow or a safety hazard. Local codes or regulations may require greater clearances.
- The vent terminal must not be recessed into a wall or siding.
- The vent terminal should be positioned where any snowdrifts will not cover it.
- Sidewall vent terminations require a terminal guard such as 658TG or 845TG when accessible—within 7' of ground.



KEY	VENT TERMINAL LOCATIONS - MINIMUM DISTANCES	MINIMUM CLEARANCE	
		Inches	Cm
Α	Clearance above grade, verandah, porch, deck or balcony	12	30
В	Clearance to window or door that may be opened	12	30
С	Clearance to permanently closed window (recommended to prevent condensation on window)	12	30
D	Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the center-line of the terminal	18	46
Е	Clearance to unventilated soffit	12	30
F	Clearance to outside corner (measured from the center of vent)	12	30
G	Clearance to inside corner (measured from the center of vent)	12	30
Н	Horizontal clearance to center-line of meter/regulator assembly located within 15 feet (4.6 m) below the terminal	36	90
1	Clearance to service regulator vent outlet	36	90
J	Clearance to non-mechanical air supply inlet to the building or the combustion air inlet to any other appliance	12	30
K	Clearance to a mechanical air supply inlet	72	180
	Clearance above paved sidewalk or a paved driveway located on public property		
L	<b>Note:</b> A vent must not terminate directly above a sidewalk or paved driveway, which is located between two single-family dwellings and serves both dwellings. <b>THIS DOES NOT APPLY to direct vent, non-consdensing appliances in the Province of Ontario.</b>	84	210
М	Clearance under a verandah, porch, deck or balcony Only permitted if veranda, porch, deck or balcony is fully open on a minimum of 2 sides beneath the floor	12	30

Note: Local codes and regulations may require different clearances.

### Venting Configurations—With Vertical Rise



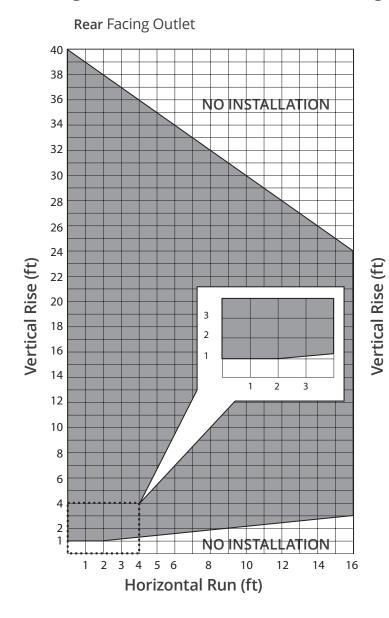
### How to Read the Venting Charts

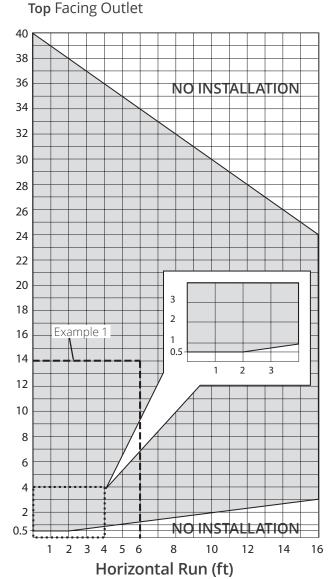
The charts below apply to co-axial roof or wall termination in installations with vertical rise. See page 17 for installations with no vertical rise.

- 1. The total length of the vent pipe cannot exceed 40 feet.
- 2. The minimum vertical height with roof termination is 10 feet.
- 3. Any combination of rise and run can be used as long as they are within the allowable limits shown on the chart below.
- 4. A maximum of 4 x 90 degrees elbows—or equivalent (2 x 45 degrees = 90 degrees)—can be used.

- 5. Each 90 degrees elbow installed on the horizontal plane is equivalent to a 3 feet horizontal pipe; therefore, 3 feet must be subtracted from allowable horizontal run. (45 degrees elbow is equivalent to 18 inches horizontal pipe.)
- 6. All horizontal pipe runs must be graded 1/4 inch per foot upwards in the direction of the exhaust flow. The final pipe length, when terminating through the wall may be graded downwards slightly to prevent water migration.
- 7. Maximum co-linear venting is 40 feet.
- 8. A restrictor is required for all installations—see *Restrictors* page 25 for more information.

### Venting Charts Allowable Co-Axial Vent Configurations with Vertical Rise





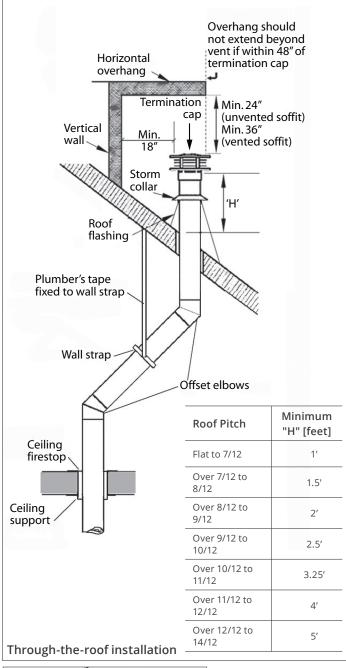
#### Co-Axial Vertical Installations

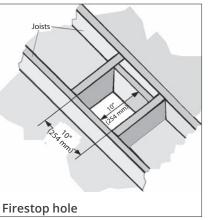
- Check the roof pitch to determine which roof flashing will be needed. See *Approved Venting Components* pages 41–42 for allowable components.
- The distance from the roof to the lowest terminal discharge opening ("H" in figure) depends on the roof pitch and must be in accordance with the manufacturer's instructions supplied with the termination unit. Note: The venting system for these appliances is considered to be **Special Venting System**. The rule in the CAN/CGA-B149 Installation Code requiring a minimum vent height of 2 feet above any portion of a building within 10 feet does not, therefore, apply.
- The minimum clearances to combustible materials all round the vent pipes must be in accordance with the dimensions shown in *Venting Configurations—With Vertical Rise* page 18 of this manual.
- Drop a plumb from the ceiling to the center of the appliance vent opening. Mark the position on the ceiling.
   Drill a small hole at the marked position.
- Determine the position where the vent will pass through the roof. If directly above the position where it penetrates the ceiling, drop a plumb from the roof to the small hole in the ceiling and mark the roof at this spot.
- If rafters or other obstructions will prevent a vertical exit or if clear attic space is desired, the roof outlet can be offset using 45 degrees elbows.

  Drill a small hole at the marked position.
- A ceiling firestop must be installed at the second floor and higher floors.
   A ceiling support should be used below the flat ceiling.

To install the firestop and support, cut and frame a 10 inches (254 mm) square hole centered on the small hole previously drilled.

- Fit vent accessory elbows a pipe lentghs as required up through ceiling support boxes and firestops.
   If installation includes offset, support the offsetting pipes every 3 feet (1 m) with wall straps as shown.
- Cut a hole in the roof centered on the small hole. The hole must allow for the minimum clearrences to combustible materials. See Venting section in this manual.
- Fit pipe lengths through the roof. Fit roof flashing securing it with roofing nails.
- Fit storm collar and termination cap.



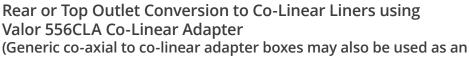


### **Co-Linear Conversion**

### Co-Linear Vent Installations

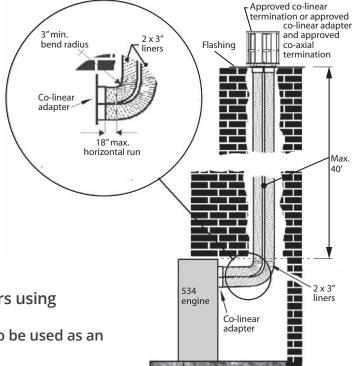
The fireplace dimensions are shown below.

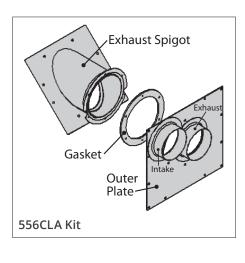
- 1. Place the appliance (fitted with the co-linear adapter) near the fireplace opening but allow space for manipulating the chimney liners on to the appliance.
- 2. Drop the 3-inch diameter flexible liners into the chimney from outside.
- 3. Fit the liners to the co-linear adapter paying attention to inlet and exhaust and move the appliance to its proper position. Be aware of the minimum liner bend radius and maximum liner horizontal run as indicated at right.
- 4. Fit the termination kit and flashing to the exterior of the chimney.
- 5. Secure the appliance to the floor or wall if necessary.



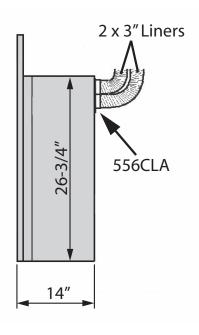
Only for use when retrofitting a sollid-fuel burning fireplace and chimney. The appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.

Requires 556CLA Co-Axial to Co-Linear Appliance Adapter (or, alternatively, a generic adapter), two lengths of 3-inch diameter flexible chimney liner, co-linear termination kit and flashing and either high wind vertical vent terminal cap or a low profile vertical termination. Zero Clearance stand-offs and shields supplied with the heater are not required for this application.

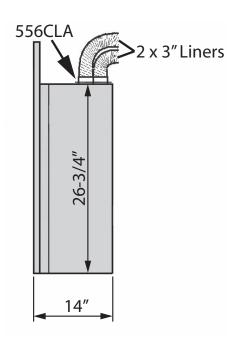




alternate to the 556CLA).







Co-Linear installation into

existing F/P

556CLA on Top Outlet

## **Co-Linear Conversion**

### **Typical Co-Linear Venting Components**

### Co-axial to Co-linear Appliance Adapters

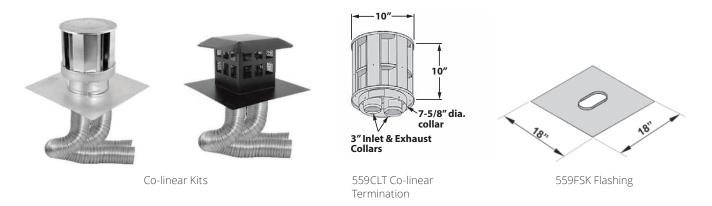




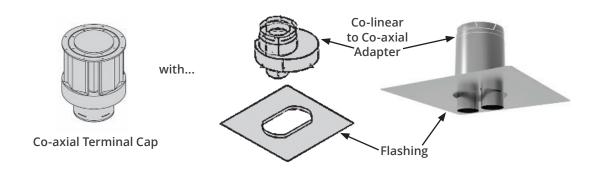
46DVA-GCL

46DVA-CLAA

### **Co-linear Terminal Configurations**



### Alternate Co-linear to Co-axial Conversion at Terminal



# **Appliance Preparation**

### Window & Vent Outlet

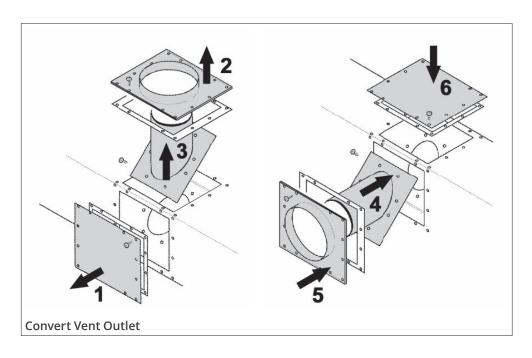
#### **Remove Window**

- 1. Turn the top two spring-loaded window bolts through 90 degrees to release the window from the firebox.
- 2. Remove the bottom two spring-loaded window bolts.
- 3. Carefully lift the window away. Keep the window and bolts in a safe place.

### Convert to Rear Vent Outlet (if required)

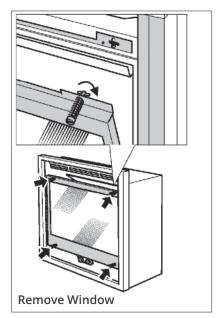
If installing with top vent outlet, ignore this stage.
If installing co-linear venting, see instructions supplied with the co-linear adapter.

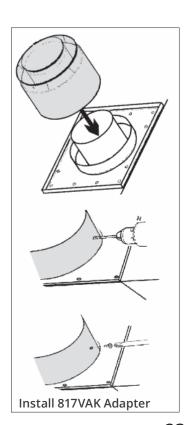
- 1. Remove the rear outlet cover plate and seal by unscrewing 12 screws. Keep the seal and plate for fitting to the top..
- 2. Remove the top outer vent collar and seal by unscrewing 12 screws.
- 3. Remove the top inner vent collar and seal by unscrewing 8 screws.
- 4. Locate the inner collar and seal inside the rear outlet opening. Secure the inner collar with 8 screws.
- 5. Fit the outer collar over inner collar. Loosely fit the 12 screws. Place the adapter 817VAK over the collars to check alignment. Tighten the 12 screws to secure the outer collar.
- 6. Fit the cover plate and seal (removed from the rear) to the top vent opening with 12 screws.



### Install 817VAK Vent Adapter

- 1. Fit the adapter 817VAK over the appliance vent collars pushing on firmly.
- 2. For rear vent outlet connection, align the adapter so that the seam on horizontal pipes is not at the bottom—check by temporarily fitting a pipe.
- 3. Drill through the adapter outer tube and appliance outer collar for no. 6 screws. *Make sure that the drill does not penatrate the inner tubes.*
- 4. Secure the adapter to the outer collar with two no. 6 thread-cutting screws supplied.



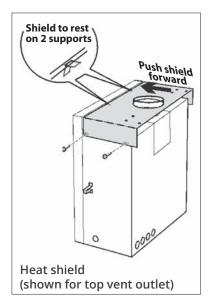


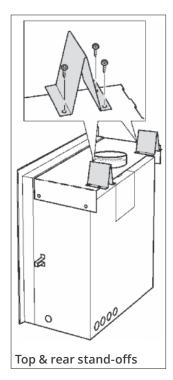
# **Appliance Preparation**

### Heat Shield & Stand-offs

### Install Top Heat Shield & Stand-offs

- If installing with rear vent outlet, the blanking plate, supplied loose with the appliance, must be secured to the top heat shield to cover the hole (4 screws).
- 2. Remove the screws at the top rear corner of the appliance's case sides.
- 3. If top vent outlet, locate the heat shield over the vent pipe adapter.
- 4. Support the front of the shield on the two angle supports.
- 5. Secure the shield to the case sides by refitting the two screws at the top rear corners and by two screws from the pack fitted near the front.
- 6. Bend the two top rear stand-offs and fit to the heat shield with three screws each.





#### NOTE

Zero clearance stand-offs and shield supplied with the appliance are not required for the co-linear applications.

### **Install Support Angles**

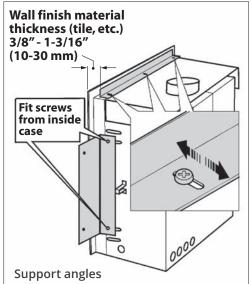
The distance from the wall angles to the front face of the heater case is adjustable between 3/8 inch and 1-3/16 inch to allow for a range of wall finish material thickness (e.g. tile, etc.).

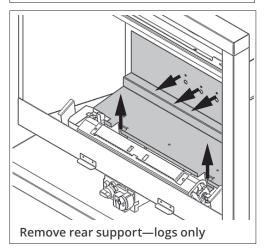
NOTE: When adding optional fronts and trims, it is important to install heater flush or slightly recessed into the **finished** wall surface.

- 1. Fit the top angle support to the case top (3 screws).
- 2. Fit the two side angle supports (2 screws each). Fit the screws from inside the heater case.

### Remove Rear Log Support

Remove the rear log support to access to the rear orifices for restrictors installation (5 screws).





# **Appliance Preparation**

### Restrictors

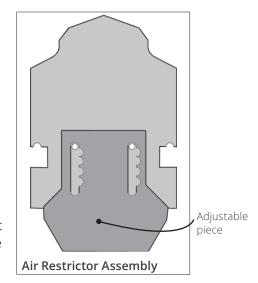
### **Install Air Restrictors** (if necessary)

No restrictors are required for appliances which only have a horizontal vent run. If installing an appliance which has a rear vent outlet connection and no vertical vent pipe rise, ignore this stage.

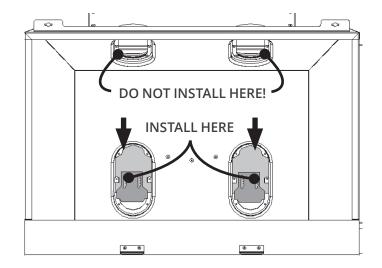
Two restrictor sets, like the one shown at right, are supplied with each 534 engine unit. The restrictors cover part of the **inlet air openings** in the firebox **rear wall** behind the rear log support. **DO NOT install the restrictors in the roof of the firebox!** 

Each restrictor set includes an adjustable piece which can be moved to different positions depending of the ven configuration. See the table below to find out which position is optimal for each type of installation.

- To fit the restrictors, loosen the two center screws of the left and right inlet ports. Place the restrictor assembly under the screw heads and tighten the center screws.
- To set the adjustable restrictor piece, loosen the two screws, position the adjustable piece according to the diagram below and tighten the screws.

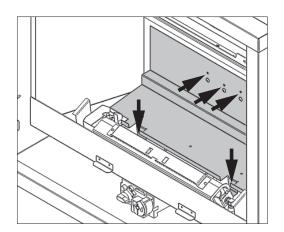


Vent terminal	Appliance vent outlet	Vertical vent pipe run	Restrictor setting
Horizontal through wall with vertical rise  No vertical rise = NO restrictor	Top or Rear	Less than 6' [183 cm]	
- NO Testrictor	estrictor	From 6' to 20' [1,83 to 6,1 m]	
		From 20' to 40' [6,1 to 12,2 m]	
Vertical through roof	Top or Rear	Less than 20' [6,1 m]	
		From 20' to 40' [6,1 to 12,2 m]	



### Re-install Rear Log Support

Refit the rear log support in place (5 screws).



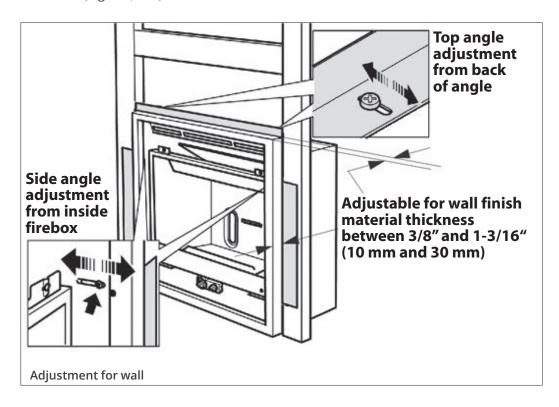
# **Appliance into Framing**

### **Install Appliance Into Framing**

- 1. Place the heater in position in the framing.
- 2. Secure the side support angles to the side studding through two holes each side with the woodscrews supplied. The top support angle should abut the wall finish but is not fixed to the framing.
- 3. Check the wall finish requirements with the homeowner. If necessary, adjust the position of the heater so that the distance from the front of the heater case to the angles is suitable for the thickness of the wall finish (e.g. tile, etc.).

### **NOTE**

When adding front and trim, it is important to install heater flush or slightly recessed into the **finished** wall surface. See front/trim installation for more information.



# **Gas Supply**

### **Connect Gas Supply**

The gas supply pipe should enter the appliance case through the opening at the left side. The supply pipe should be connected to the appliance gas inlet pipe located at the left side of the control valve.

Supply line connection to the inlet pipe is 3/8" NPT female.



If the circulating fan is to be installed, be aware that the supply pipe run inside the case should be at the same height as the appliance inlet pipe in order to clear the fan. If intending to fit an internal isolating valve, check that it will be clear of the fan.

Use only new black iron or steel pipes, CSST, or copper tubing if acceptable—check local codes. **Note that in USA**, copper tubing must be internally tinned for protection against sulfur compounds.

Union in gas lines should be of ground joint type.

The gas supply line must be sized and installed to provide a supply of gas sufficient to meet the maximum demand of the appliance without undue loss of pressure.

Sealant used must be resistant to the action of all gas constituents including propane gas. Sealant should be applied lightly to male threads to ensure excess sealant does not enter gas lines.

The supply line should include a manual shut-off valve to allow the appliance to be disconnected for servicing.

A plugges 1/8" NPT tapping must be installed in the line. The tapping must be accessible for ttest gauge connection and be immediately upstream of the gas supply connection to the appliance.

### Pressure test the supply line for leaks.

The appliance and its individual shut-off 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 (3.5kPa).

The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5kPa).

Failure to either disconnect or isolate the appliance during pressure testing may result in regulator or valve damage. Consult your dealer in this case.

The minimum supply pressure is given on page 6 of this manual.

All piping and connections must be tested for leaks after installation or servicing. All leaks must be corrected immediately.

When testing for leaks:

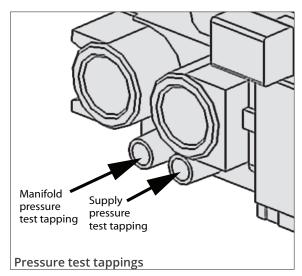
- Make sure that the appliance is turned off.
- · Open the manual shut-off valve.
- Test for leaks by applying a liquid detergent or soap solution to all joints. Bubbles forming indicate a gas leak.

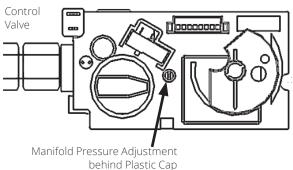


### WARNING

NEVER USE OPEN FLAME to check for leaks. Correct any leak detected immediately.

The pressure test tapping locations are shown below. A built-in non-adjustable regulator controls the burner manifold pressure. The correct pressure range is shown page 6 of this manual. The pressure check should be made with the burner alight and at its highest setting. See *Appendix A – Lighting Instructions Plate* page 45 for full operating details.





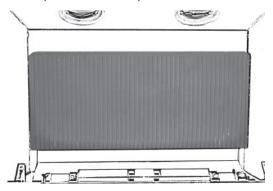
### **Liner Panels**

#### Install Liner Panels

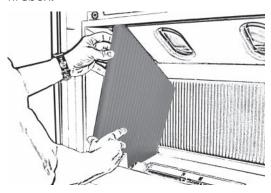
All liner panels can be installed as indicated below except 618RGL—Reflective Glass Liners—see instructions packed with the liners.

Unpack the liners carefully to avoid scratching or damaging them.

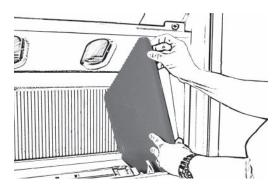
1. Place the rear panel against the back of the firebox on the ledge of the rear log support. Make sure the bevel part is at the top.



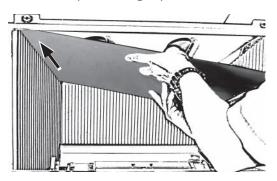
2. Hold the left hand side panel at an angle and insert its bottom edge inside the firebox. Rotate the panel to a vertical position ensuring that the top edge is behind the flange of the firebox. Pull the panel as forward as possible against the left edge of the firebox.



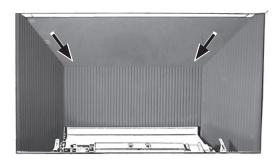
3. Hold the right hand side panel at an angle and insert its bottom edge inside the firebox. Rotate the panel to a vertical position ensuring that the top edge is behind the flange of the firebox. Pull the panel as forward as possible against the right edge of the firebox.



4. Insert the top panel over the left side panel while holding the top panel forward up the slope. Rotate the right side of the top panel upwards and place it over the top of the right panel.



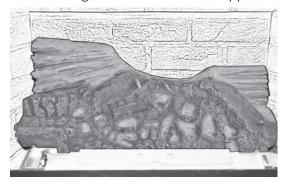
Slide the top panel down the slope of the firebox as far as possible to close the gap with the rear panel and to maximize the gap above the front edge of the top panel.



### Traditional Logs 534LSK

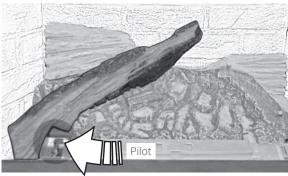
Unpack the ceramic logs very carefully to avoid damaging their fragile material. Install the logs as shown below. Please note that the position of the logs is critical to insure the good performance of the appliance.

Place the rear log on the sheet metal support centering it side to side in the firebox. Pull it forward until the notch in the underside of the log sits against the front edge of the sheet metal support.



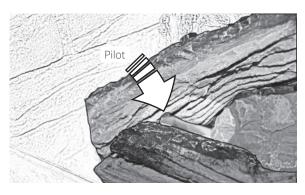
2. Place the top left log on the pin of the rear log. The bottom of the log rests against the left of the pilot shield and slightly above.





3. Place the front left log on the burner. Slide it to the left against the top left log. The narrow end should rest in the notch in the rear log.

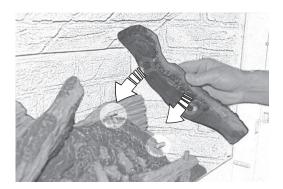




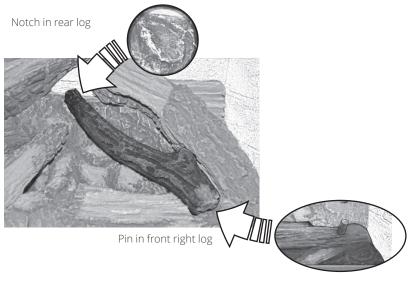
4. Place the front right log on the burner and slide it to the left against the front left log.



5. Locate the top right log on the two pins on the right side of the rear log. Ensure a tight fit against the flat area around the pins in the rear log.



6. Place the lower end of the center right log onto the pin on the front right log. Rest the narrow end in the notch into the rear log.



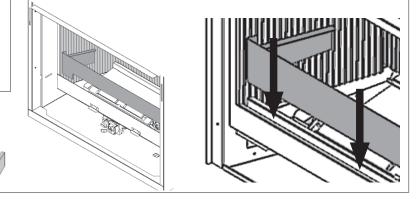
7. Pour some ceramic loose coals on each side of the logs to hide the sheet metal work. DO NOT put any coal into the pilot area.



#### Ceramic Rocks 534RSK

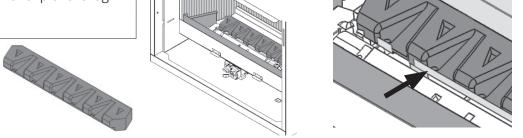
Unpack the ceramic rock kit very carefully to avoid damaging the fragile material. Install the components as shown below. Please note that **the position of the rocks and twigs (if used) is critical to ensure proper performance of the appliance.** 

1. Install the front support platform in the firebox carefully sliding it down between the burner and the front bottom edge of the firebox while avoiding scraping the side ceramic panels.



2. Place the rock ceramic base on the log support behind the burner. The front bottom of the base must rest against the front lip of the log support.

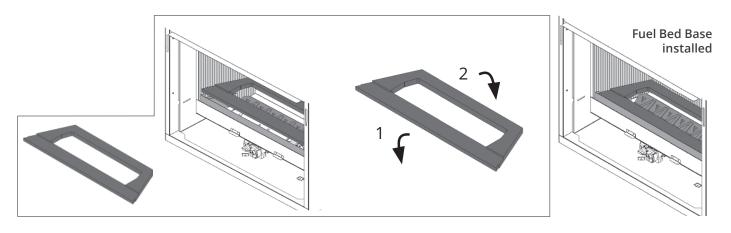
Bottom



3. Install the ceramic platform in the firebox rotating down to insert the front first behind the front support. Lay the back of the ceramic platform against the rear ceramic panel again being careful not to scrape the ceramic panels.

### **ATTENTION!**

The ceramic platform is quite fragile. DO NOT force it in place!

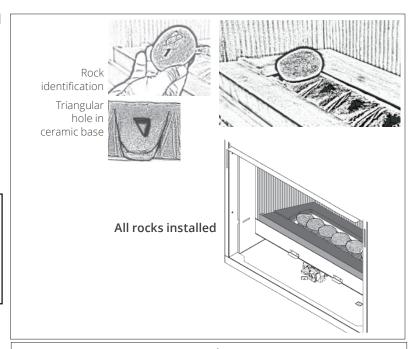


4. The underside of each ceramic rock is identified by a number and a specific protruding locating triangle.

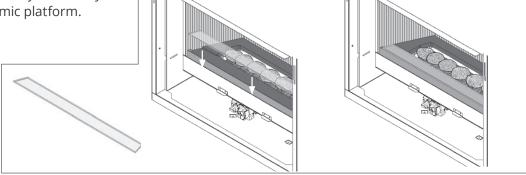
Install the six rocks from left to right starting with rock no. 1.

Note that the ceramic base may need to be slightly adjusted side-to-side to allow stones to fit within the platform.

A black discoloration may form over time at the front bottom of the 6-rock original fuel bed; this deposit can be burned off by running the fireplace on a low to medium setting fire for 30 to 45 minutes. This discoloration is unavoidable and will re-form again.

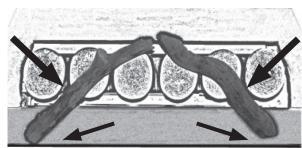


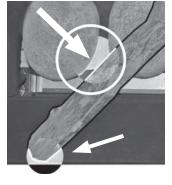
5. Place the glass panel in its cavity formed by the front support and the ceramic platform.

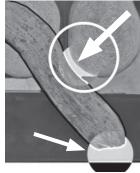


- 6. Place the left twig across the second and thirs rocks from the left; rest its end on the glass near the edge of the platform as shown.

  Ensure to leave a gap between the twig and the first rock to allow flame to come up between the twig and the rock.
- 7. Place the right twig across the second and third rocks from the right; rest its end on the glass about 1 cm (13/32") from the edge of the platform as shown. Ensure to leave a gap between the twig and the first rock to allow flame to come up between the twig and the rock.





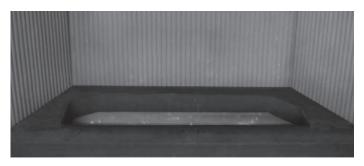


### **Driftwood 534DWK**

Unpack the driftwood kit very carefully to avoid damaging the fragile material. Install the components as show below. Please note that the position of the logs and pebbles (if used) is critical to ensure proper performance of the appliance.

#### **Platform**

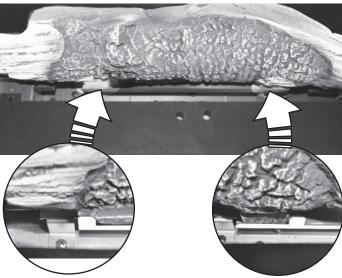
Place the platform into the firebox on top of the burner.



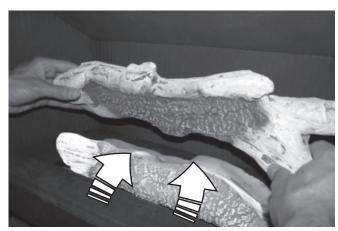
#### Logs

 Identify the base log and place it in the cavity of the ceramic platform. The protruding parts of the log in the front should rest against the lip of the sheet metal log support behind the burner.



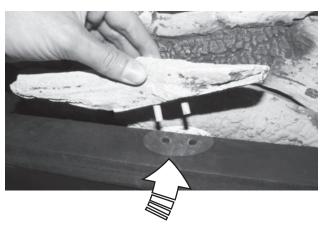


2. Identify the rear log and place it on top of the base log locating it into the notches on top of the log. Pulll the log forward so it is locked in position.





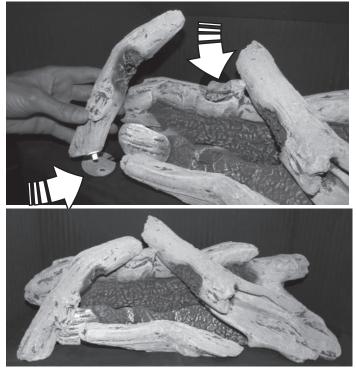
 Place the front log inserting its two pins into the two holes at the front of the platform. The ends of the log should be oriented towards the fron tas the log should not hang over the inside edge of the platform.



4. Identify the right side cross log, the longest, and place it across the rear log. The narrow end of the log rests in a notch of the rear log. The wide end of the log lays flat on the platform. flush with the edge as indicated.

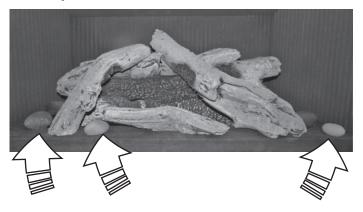


5. Identify the left side cross log which has one pin at one end. Insert the pin in the hole at the front left of the platform and rests the top part of the log into the notch of the rear log as indicated.



#### **Pebbles**

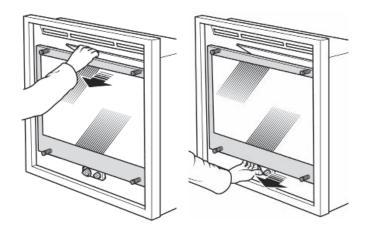
Six pebbles are supplied as decorative elements. If used, they should be placed on the platform only. We suggest to place the larger ones to cover the inside edge corners of the platform and place others randomly. Not all of them have to be used.



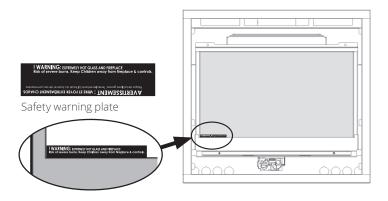
### Refit & Check Window

### **Refit and Check Window**

- 1. Place window over the firebox.
- 2. While holding it, push in and screw the bottom two bolts to secure them.
- 3. Insert the top two bolts pins into the slot/holes and turn them 90 degrees to secure them.
- 4. Pull the top of the window forward and release to check that it opens slightly and returns confirming the good function of the spring-loaded mechanism.



- 5. Similarly, check the bottom of the window by pulling it forward and releasing it.
- 6. Apply firm pressure around the window frame to ensure the window is sealed tight against the firebox.
- 7. If the Hot Glass Warning plate has been removed from the front lower corner of the window, reinstall it by sliding it between the glass and the frame as indicated.



### /!\ WARNING

The window unit must be correctly installed, fastened and sealed after servicing or serious bodily injury and/or damage to the appliance may result.

To ensure a safe operation:

- Double-check that the window frame is correctly installed:
- Verify that the bolts and spring-loaded bolts are hooked properly to the window
- Pull out the top of the window and release it to make sure the springs return it; repeat with the bottom of the window;
- Ensure the window is sealed before operation.



### WARNING

Failure to install the window correctly can:

- Leak carbon monoxide:
- Affect the performance of the fireplace;
- Damage components;
- Cause overheating resulting in dangerous conditions.

Damages caused by incorrect window installation is not covered by the Valor warranty.

## **Battery Holder**

### **Install Battery Holder**

The batteries that power the receiver and handset need to be installed prior to pairing and use.

- 1. Take the receiver out from under the firebox.
- 2. Insert four 1.5 V high quality alkaline batteries in the battery holder and one high quality alkaline 9 V battery in the remote handset.

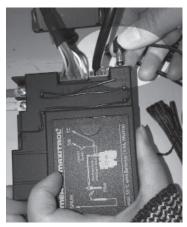
The battery holder and cable are supplied with the appliance.



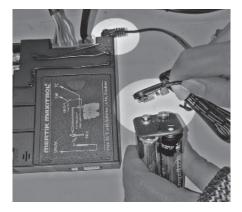




3. Connect the cable to the receiver as shown.



4. Connect the other end of the cable to the battery holder...



5. Place the receiver and battery holder as shown below (placement may vary with installed options).



Battery holder Receiver

6. Use a heat-resistant tie to gather any extra cable between the receiver and the holder.



### Caution

DO NOT let the cable touch the burner plate above, it will melt during operation.

### Installation

#### Synchronize Receiver and Handset

The receiver and handset of the remote control system must be initially paired before the first use.

- 1. If not already done, place a 9 V alkaline battery in the handset.
- 2. Identify the RESET button on the front of the receiver
- 3. With a thin object, press and hold the receiver's reset button until you hear one short and one long beeps. Release the button after the second beep.
- 4. Within the next 20 seconds, press the small flame button ( ◊ ) on the handset until you hear two short beeps confirming the pairing is set. If you hear a long beep, the pairing has not been done or the wires are not connected correctly.

This is a one time setting only and is not required when changing the batteries in the remote handset. The remote control system is now ready to use.

### **Remote Control Pairing**







### Installation

#### **Burner aeration**

#### **Check Operation**

Turn the fireplace flame up and down using the remote control to confirm that the full range of inputs is achieved—see *Appendix B – Remote Control Operation* pages 46–49 for details.

#### Adjust Aeration (if needed)

Light the fire and allow the unit to warm up for 10–15 minutes to evaluate the flame picture. Burners are equipped with an ajustable shutter to control primary aeration. See figures below. The shutter is factory-set to an aeration gap which will give optimum performance for the vast majority of installations.

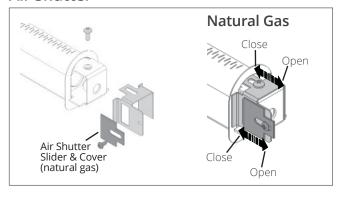
In some installations, depending of the fuel bed used, the altitude and other considerations, the flame picture may be improved by adjusting the aeration. The need for adjustment should be determined ony by operating the appliance with the fuel bed and window installed and evaluating the flame picture after a 15-minute warm-up.

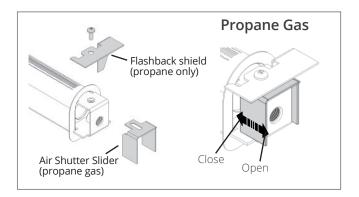
**Increasing aeration** (open) will cause the flames to appear more transparent and blue showing more ceramic effects glow.

**Decreasing aeration** (close) will cause flames to appear more yellow or orange showing less ceramic effects glow.

Too little aeration may result in black carbon forming and dropping into the firebox.

#### Air Shutter





**Installation** Accessories

#### Install Front, Trim and Barrier Screen

Install the front and trim chosen by the customer for their fireplace. Install as well the barrier screen which is provided with the front or trim.

Show the customer how to access the controls when the front or trim are installed and how to remove them.

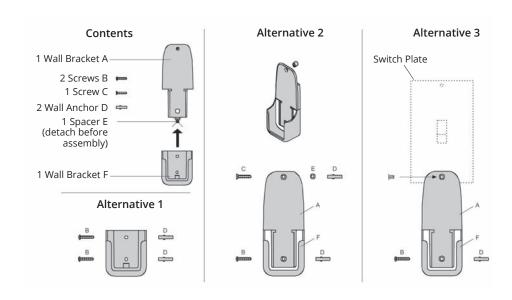
Follow the instructions provided with the front or trim and leave those instructions behind for the customer's futher reference.

#### Install Handset Wall Holder

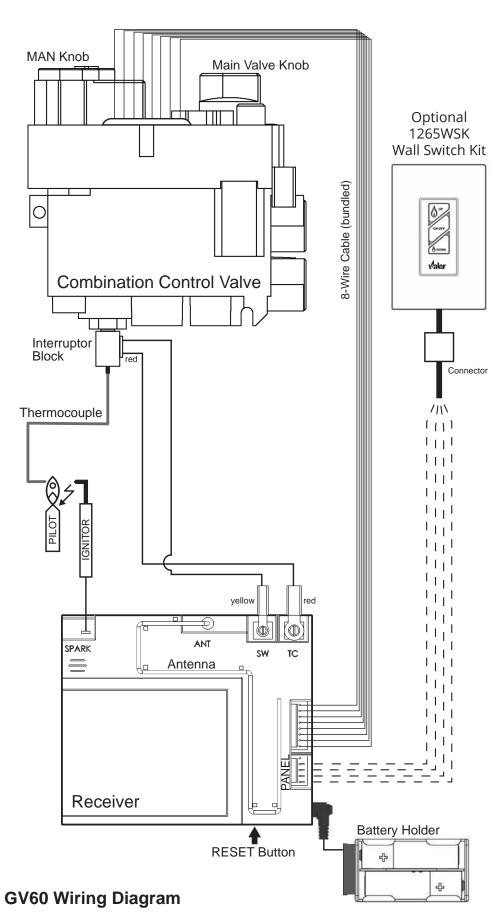
The remote control kit for this fireplace comes complete with a wall-mounted holder. This holder is not required in all installations but is provided as an optional feature for those customers who wish to mount the remote handset to the wall.

To install the holder to the wall, find a convenient location and use the hardware provided with the kit. See the diagram below for required hardward and configurations. Note that the holder can be installed at the base of a light switch plate.

IMPORTANT. The location of the remote control handset is important to insure proper temperature regulation. To obtain a constant temperature, we recommend that the handset should be between 3 and 15 feet away from the appliance but not directly above it. We also advise that the handset should be located away from any other heat source and not in direct sunlight as this may affect the temperature sensor located in the remote handset.



## **Wiring Diagram**



NO ELECTRICAL CONNECTION ALLOWED

for any outdoor installation!

# **Approved Venting Components**

		DESIGN				s 530 <sup>5</sup> , 534, 6 ailability by Manı		
Ve	ntin	ng Parts Description	DURA-VENT	SELKIRK	ICC EXCEL DIRECT	AMERIVENT	MILES	ВВМ
		Standard Co-axial	46DVA-HC	4DT-HC	TM-4HT	4DHC round	658DVK2	DVR6-HCP
Termination Caps	Horizontal	Deluxe Co-axial	_	_	TM-4RHT	4DHCS square	_	DVR6-HC
	rizc	High Wind Co-axial	_	_	_	_	_	_
	Ĭ	Co-linear	_	_	_	_	720SWK <sup>5</sup>	_
			407141140			4DVC		DVR6-VCH
		Standard Co-axial	46DVA-VC	4DT-VT	_	4DH-1313	_	DVR6-VCSB
	<u>8</u>	High Wind Co-axial	46DVA-VCH	_	TM-4SVT	_	_	_
Ē	Vertical	Extended Co-axial	46DVA-VCE	_	_	_	_	_
Ter	_	Co-linear	46DVA-CL33 46DVA-CL33H 46DVA-33P	_	TM-IVT	HCL-99-33 HCL-913-33 HCL-1313-33	559CLT	940033B 940033HWS 940033RD
		Snorkel, 14" Rise	46DVA-SNK14	4DT-ST14	TM-4ST14	4D14S	_	DVR6-SNK14
		Snorkel, 36" Rise	46DVA-SNK36	4DT-ST36	TM-4ST36	4D36S	_	DVR6-SNK36
;	S.	Universal Adapter 3" Flex Coupler	2150	_	TM-CFAA3	_	_	95090390
-	nbie	Valor Adapter	817VAK	_	TM-4AA2	4DSC-V	_	_
	8/s	Co-linear Flex Connector	46DVA-ADF	_	_	_	_	_
Vent Adapters / Couplers	аартег	Co-axial-to-Co-linear Adapter	46DVA-GCL 46DVA-CLAA	_	TM-4CAA	4DCAB33	556CLA	DVR6-A33
nt Ac		Co-linear-to-Co-axial Adapter	46DVA-GK 46DVA-CLTA	_	TM-4CTA	4DCAT33	_	_
×	<b>D</b>	DV to B-Vent Adapter	_	_	_	_	DVA5BV <sup>6</sup>	_
NOTE: 2-ply liner approved to CAN/ULC S635 suitable for venting gas appliances. As manufated by the second						es. As manufacture	d by Z-Flex,	
			2280 Series	AF3-35L	TM-ALK33 TM-ALT33	_	_	952703
2		Galvanized or Black	46DVA-08A 46DVA-08AB (3" to 7")	_	_	4D7A or 4D7AB (3" to 5")	_	DVR6-08A DVR6-08AB
angin and	suo ".	Galvanized or Black	46DVA-16AB 46DVA-16AB (3" to 14-1/2")	_	TC-4DLS1 TC-4DLS1B	4D12A or 4D12AB (3" to 10")	_	DVR6-16A DVR6-16AB
3	Extensi ' x 6-5/8	Galvanized or Black	46DVA-17TA 46DVA-17TAB (11" to 17")	_	TC-4DLS2 TC-4DLS2B (1-7/8" – 21")	4D16A or 4D16AB (3" to 14")	_	_
Justable	Pipe Extensions 4" x 6-5/8"	Galvanized or Black	46DVA-24TA 46DVA-24TAB (17" to 24")	_	TC-4DLA30 TC-DLA30B (16.5" – 29")	4D26A or 4D26AB (3" to 24")	_	_
Ad		Co-axial Flex	46DVA-36FF 46DVA-60FF 46DVA-120FF	_	_	_	_	_
	30°	Galvanized	46DVA-E30	_	_	_	_	_
DV Elbows	45°	Galvanized	46DVA-E45 (swivel)	4DT-EL45	TE-4DE45	4D45L	_	DVR6-E45
	4	Black	46DVA-E45B (swivel)	4DT-EL45(B)	TE-4DE45B	4D45LB	_	DVR6-E45B
	。09	Galvanized	46DVA-E60	_	_	_	_	_
	。 06	Galvanized	46DVA-E90 (swivel)	4DT-EL90	TE-4DE90	4D90L	_	DVR6-E90
	0	Black	46DAV-E90B (swivel)	4DT-EL90(B)	TE-4DE90B	4D90LB	_	DVR6-E90B

## **Approved Venting Components**

				Venting Pa	rts Code / ava	ailability by Ma	nufacturer	
	Venting Descrip		DURA-VENT	SELKIRK	ICC EXCEL DIRECT	AMERIVENT	MILES	ВОМ
	6" long	Galvanized	46DVA-06	4DT-06	TC-4DL6			DVR6-06
		Black	46DVA-06B	4DT-06(B)	TC-4DL6B	] –	_	DVR6-06B
	7" long	Galvanized	_	_	_	4D7	_	_
		Black				4D7B		
<u></u>	9" long	Galvanized	46DVA-09	4DT-09	TC-4DL9	_	_	DVR6-09
( OD )	3 long	Black	46DVA-09B	4DT-09(B)	TC-4DL9B			DVR6-09B
× CI O	12" long	Galvanized	46DVA-12	4DT-12	TC-4DL1	4D12	_	DVR6-12
2/8	12 10119	Black	46DVA-12B	4DT-12(B)	TC-4DL1B	4D12B		DVR6-12B
o X	40" lang	Galvanized	46DVA-18	4DT-18			_	DVR6-18
4	18" long	Black	46DVA-18B	4DT-18(B)				DVR6-18B
Pipes	24" lone	Galvanized	46DVA-24	4DT-24	TC-4DL2	4D2		DVR6-24
ī	24" long	Black	46DVA-24B	4DT-24(B)	TC-4DL2B	4D2B	_	DVR6-24B
	20" lana	Galvanized	46DVA-36	4DT-36	TC-4DL3	4D3		DVR6-36
	36" long	Black	46DVA-36B	4DT-36(B)	TC-4DL3B	4D3B	_	DVR6-36B
		Galvanized	46DVA-48	4DT-48	TC-4DL4	4D4		DVR6-48
	48" long	Black	46DVA-48B	4DT-48(B)	TC-4DL4B	4D4B	_	DVR6-48B
		Flashing 2-6/12	46DVA-F6	4DT-AF6	TF-4FA	4DF (0/12-5/12)	_	DVR6-AF01
Flashings	Roof Flashing 7/12-12/12		46DVA-F12	4DT-AF12	TF-4FB	4DF12 (6/12-12/12)	_	DVR6-AF71
<u>Flas</u>	Flat Roof Flashing		46DVA-FF	_	TF-4F	_	559FSK	DVR6-TCF
	Masonry Flashing		_	_	TF-4MF	_	_	_
	New Siding Flashing		_	_	_	_	658NSFK	_
	Wall Thimble		46DVA-WT	4DT-WT1	TM-4WT	4DWT	_	DVR6-WTU
	Stor	m Collar	46DVA-SC	4DT-SC	TM-SC	4DSC	_	DVT68-SC
	Decora	ative Plate	46DVA-DC	_	TM-4TR TM-4TP	4DFPB	_	DVR6-DC
	Ceiling	Cathedral	46DVA-CS	4DT-CCS	TM-4SS	4DRSB	_	DVR6-CS
SILS	Support	Regular	_	4DT-CS	_	_	_	_
Ta L	Coilin	r Eiroston	46DVA-FS	4DT-FS	TM-4RDS	4DFSP	D\/R¢	DVR6-CFS
/sre	Ceiling Firestop		40DVA-F3	401-65	TM-CS	40F5P		D 1 10-01-3
ge Girin	Attic Radiation Shield / Firestop		46DVA-IS	ADT-41S	TM-4AS	4DAIS12 (12") 4DAIS36 (36")	_	DVR6-AIS
Ver	Wall Strap		46DVA-WS	4DTWSB	TM-WS	4DWS	_	DVR6-WS
various venting system	Vinyl Siding Standoff		46DVA-VSS	4DT-VSS (before siding) 4DT-VSSB (after siding)	TM-VSS	4DHVS	_	DVR6-VSS
	Elbow Strap / Offset Support		46DVA-ES	4DT-OS	TM-OS	_	_	DVR6-ES
	Terminal Guard		46DVA-WG		TM-HTS		845TG	DVR6-SHRD
				_	TM-RHTS	1 -	658TG	

Notes: 1. All listed above co-axial pipes and fittings require Valor 817VAK Adapter Kit to fit Valor's smooth collars (Valor adapter 4DSC-V by American Metal Products may also be used) on 530IN/IP, 534, 650 models.

<sup>2.</sup> Follow instructions supplied with each manufacturer's components.

<sup>3.</sup> Unless otherwise specified, all the parts and assemblies from the above table are to be used with 4" x 6-5/8" pipes.

<sup>4.</sup> Do not mix components from different vent manufacturers.

<sup>5.</sup> The 720SWK Sidewall Co-Linear Kit can only be installed on the 530 models (CANNOT be used with coal effect models).

<sup>6.</sup> The DVA5BV DV to BV adapter CANNOT be installed on the MF28 models.

### Commonwealth of Massachusetts

#### State of Massachusetts Carbon Monoxide Detector/Vent Terminal Signage Requirements

For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

- 1. INSTALLATION OF CARBON MONOXIDE DETECTORS. At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gas fitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gas fitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors.
- a. In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.
- b. In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.
- 2. APPROVED CARBON MONOXIDE DETECTORS. Each carbon monoxide detector as required in accordance

with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.

- 3. SIGNAGE. A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) inch in size, "GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".
- 4. INSPECTION. The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a)1 through 4.
- (b) EXEMPTIONS: The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:
- 1. The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and
- 2. Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.
- (c) MANUFACTURER REQUIREMENTS GAS EQUIPMENT VENTING SYSTEM PROVIDED. When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:
- 1. Detailed instructions for the installation of the venting system design or the venting system components; and

### Commonwealth of Massachusetts

- 2. A complete parts list for the venting system design or venting system.
- (d) MANUFACTURER REQUIREMENTS GAS EQUIPMENT VENTING SYSTEM NOT PROVIDED. When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:
- 1. The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and
- 2. The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.
- (e) A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

## **Appendix A – Lighting Instructions Plate**

#### 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.

- A. This appliance has a pilot which must lighted by hand or by remote control. Follow these instructions exactly. To save gas, turn the pilot off when not using the appliance for a prolonged period of time.
- B. BEFORE LIGHTING, smell all around the appliance area for gas. Be sure to smell next to the floor because some gas are 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 control knobs. Never use tools. If the knobs will not push in or turn by hand, don't try to repair them; call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control, which has been under water.

#### LIGHTING INSTRUCTIONS

- 1. STOP! Read the safety information above
- 2. TO CLEAR ANY GAS, turn main valve off by pressing OFF (red dot) button on remote handset (1).
- Wait five (5) minutes to clear out any gas, then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.



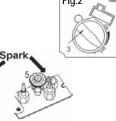
- 3. AUTOMATIC IGNITION: MAN-knob (2) in ON position. Ensure Flame Adjustment knob (3)
- is set to lowest setting (  $\circlearrowright$  ) (Fig. 1). Locate the pilot (Fig. 3) inside firebox.
- On the remote control handset, press the OFF button (red dot) and large flame button ( ) simultaneously; a short acoustic signal confirms the start has begun.
- Further short acoustic signals indicate the ignition process is in progress.
- When the pilot is lit, the Flame Adjustment knob (3) will automatically rotate to the highest setting.
- Press the small flame button (♠) on the remote.
- 4. MANUAL IGNITION: MAN-knob (2) in MAN position (Fig. 2).

With the window off, locate the pilot (Fig. 3) inside firebox.

- Set Flame Adjustment knob (3) to the lowest setting (ひ).
- Push down the metallic core (4) with a pin or similar instrument; this will establish the pilot gas flow.
- · Light gas at the pilot (5) with a match.
- Continue holding down metal core (4) for about 10 seconds; after release, pilot should remain lit.
- If the pilot will not stay lit after several tries, turn the gas control knob (3) to OFF ( $\circlearrowright$ ) and call your local service technician or gas supplier.
- Reinstall the window and set the MAN-knob (2) to ON; turn Flame Adjustment knob (3) up ( $\circlearrowleft$ ) or down( $\circlearrowright$ ) manually or use the flame buttons ( $\circlearrowleft$ ) ( $\circlearrowleft$ ) on the remote control handset to adjust the flame height.

#### TO TURN OFF GAS TO APPLIANCE

- 1. AUTOMATIC SHUT-OFF (using the remote control handset):
  - · Press and hold the small flame on the remote control handset to shut-off the main burner gas flow;
  - Press "OFF" button (red dot) on remote handset to shut-off the appliance, including pilot flame.



#### **Radio Frequency**

315 MHz for USA and Canada.

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

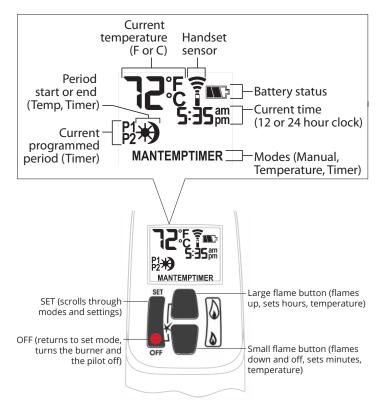
**NOTE:** Before using the remote control system for the first time, the receiver and the handset must be synchronized. See the section *Synchronize Remote Control* 

**IMPORTANT:** BEFORE YOU BEGIN, please note that on this system, the settings of time, temperature and automatic ON/OFF can only be programmed when the function display is flashing. Be patient when programming as it can take a few seconds to set.

Note: In the TEMP or TIMER modes, the remote handset senses the room temperature and adjusts the flame accordingly.

To communicate, the handset should be within 15 feet (4.5 meters) of the fireplace.

Do not leave the handset on the mantel or hearth.



#### Turn Fireplace ON

Press + buttons until you hear a short beep; release buttons.

Beeping continues until pilot is lit.

Burner lights to maximum flame height and handset goes automatically to manual (MAN) mode.



#### NOTES:

On the valve, MAN button must be at ON, in full counter-clockwise position  $\circlearrowleft$ .

#### **Turn Fireplace OFF**

Press • button.

When pilot is just turned off, wait 2 minutes to light it again.

#### Standby Mode (Pilot Flame)

Press and hold  $\Diamond$  to set fireplace to pilot.



#### **Adjust Flames Height**

With pilot lit, press and hold buttons:

= increase flame height

= decrease flame height or set to pilot

For fine adjustment, tap buttons.



#### **Express Low and High Fire**

Double-click buttons:

= increase flame to maximum height "HI"

= decrease flame minimum height "LO"

NOTE: Flame goes to high fire first before going to designated low fire.





#### Setting °C/24-hr or °F/12-hr clock

In MAN mode, press and hold ● + **\( \rightarrow\)** buttons until temperature / clock display changes from

 $^{\circ}F / 12$ -hour  $\longleftrightarrow$   $^{\circ}C / 24$ -hour



#### **Setting Time**

The time display will flash after either:

- installing the battery, or
- pressing ( + ()

To set the time, press buttons:



a = minutes

Press or wait to go back to MAN.



#### **Modes of Operation**

Briefly pressing SET cycles through modes of operation.



NOTE: Press or to reach MAN mode.



#### MAN Manual Mode

Manual flame height adjustment.



#### **★**TEMP Daytime Temperature Mode

When pilot is lit, room temperature is measured and compared to set temperature. Flame height automatically adjusts to reach Daytime Set Temperature.



## DTEMP Night time Setback Temperature Mode

When pilot is lit, room temperature is measured and compared to set temperature. Flame height automatically adjusts to reach Night Time Setback Temperature.

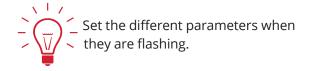


#### TIMER Timer Mode

When pilot is lit, two periods of time (P1 and P2) can be programmed to use Daytime and Night time temperatures at specific times.

Note: Display shows set temperature every 30 seconds.





#### Setting high / low Temperatures

#### Setting "DAYTIME" high temperature.

Default Settings: ★TEMP 23 °C/74 °F

Press SET to scroll to ★TEMP

Hold SET button until TEMP flashes.

To set — Daytime Temperature:

= increases temperature.

**♦** = decreases temperature.

Press or wait to complete setting.



#### Setting "NIGHT TIME SETBACK" low temperature.

Default Settings: TEMP "--" (OFF)

Press SET to scroll to TEMP

Hold SET button until TEMP flashes.

To set Night Time Temperature:

= increases temperature.

 $\delta$  = decreases temperature.

Press or wait to complete setting.



#### **Setting Program Timers**

You can program two periods of time between 12 am and 11:50 pm in each 24-hour cycle.

Programs P1 and P2 must be set in the following order during a 24-hour cycle: P1★, P1), P2★ and P2).

🜟 = Day Time temperature (high) program period

= Night Time temperature (low) program period

#### **Default Settings:**

Program 1: **P1** ★ 06:00 am **P1** ) 08:00 am

Program 2: **P2**★ 11:50 pm **P2** 11:50 pm

Press SET to scroll to TIMER.



If P1 # = P1 or P2 # = P2, programming is cancelled.

To keep fireplace ON all night, set **P2** at 11:50 am and **P1** ★ at 12:00 am.

If you want to program only one period, program P1 \*\* and P1 \*) with desired times then P2 \*\* and P2 \*) with the same time as P1 \*).

5:00 an

#### Setting P1 🜟 time—high temperature.

Hold SET button until P1★ is displayed and time flashes.

To set time:

a hour

Press or wait to complete setting.

### Setting P1 ) time—low temperature.

Hold SET button until **P1)** is displayed and time flashes.

To set time:

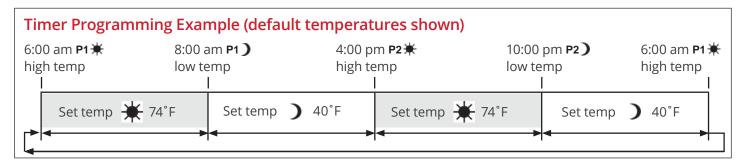
a hour

Press or wait to complete setting.

#### Setting P2 high and low temperature times.

Repeat same steps as Setting P1.

When all settings are complete, press • to save them.



#### Automatic Turn Down 8-Hour no Motor Movement

The valve will turn to pilot flame if there is no motor movement for an 8-hour period.

#### **Automatic Shut-Off**

Low Batteries Receiver. With low battery power in the battery holder the system shuts off the fire completely. This does not apply when the power supply is interrupted.

On-Demand Pilot (7 Day Shut-Off). This green feature eliminates gas energy consumption during extended appliance inactivity. When the appliance is inactive for an extended period of time the system automatically extinguishes the pilot. This feature helps the consumer realize cost benefits by automatically eliminating energy consumption during non-heating months and limited use.

The programmed length of inactivity to activate the system is specified by the appliance manufacturer and cannot be altered in the field.

#### **Low Battery Indication**



#### !\ Caution

DO NOT USE a screwdriver or other metallic object to remove batteries from holder. This could cause a short-circuit.

Handset: The battery icon will show when the battery needs to be replaced. Replace with one 9 V alkaline battery.

Battery holder: Frequent 'beeps' for 3 seconds when the valve motor turns indicate the batteries need to be replaced in battery holder. Replace with four 1.5 V alkaline batteries.

#### Handset / Receiver Match

The remote control handset and receiver are programmed to function together. In case of a replacement of the handset or the receiver, you will need to reset the receiver to allow them to function together. Contact your dealer for details.

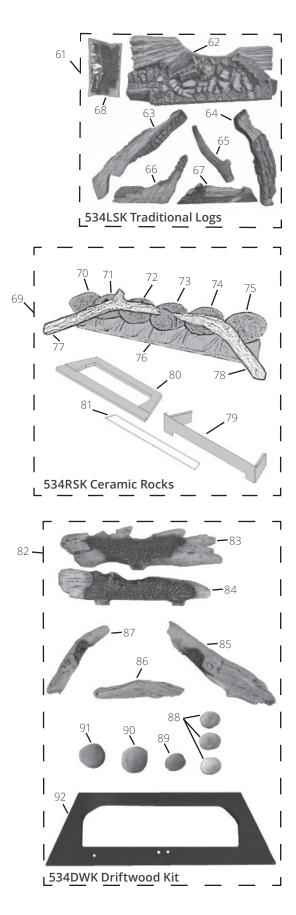
# Appendix C – Spare Parts

	Description	Part no.
1	Top stand-offs (2)	3000192
2	Top heat shield panel	350A008
2a	Top heat shield blanking plate	330A964
3	Top frame support angle bracket	3000181
4	Outer vent collar	330A888
5	Vent cover plate	330A902
6	Side frame fixing brackets (2)	3000255
7	Side stand-offs brackets (2)	320B423
8	Convection heat baffle	340B308AZ
9	Support for rear log and rocks	4001999
10	Window assembly	30003895
11	Window screw assembly (2)	000B214S
12	Hot Glass Warning Plate	4003093
13	Restrictor plates (2)	4002895
14	Adjustable plates (2)	4002896
	Screws (2) (not shown)	100A757
1.5	Burner module (natural gas)	4001952
15	Burner module (propane gas)	4001953
16	Flashback shield (propane gas)	3000371
17	Air shutter Cover (natural gas)	4002346
18	Air shutter slider (propane gas)	320B293
10	Air shutter slider (natural gas)	4002345
19	Burner (natural gas)	740K189
19	Burner (propane gas)	740K190
20	Injector elbow 82-650 (natural gas)	9730012
20	Injector elbow 92-260 (propane gas)	9730007
21	Burner mounts (2)	4001964
22	Front log supports (2)	4001965
22	Pilot assembly (natural gas)	4000062S
23	Pilot assembly (propane gas)	4000063S
24	Pilot bracket	720A542
25	Pilot injector no. 35 (natural gas)	4002511
25	Pilot injector no. 27 (propane gas)	720A195
26	Hooked olive for pilot injector	720A196
27	Olive nut for pilot pipe	420K385
28	Electrode	720A543
29	Electrode retaining nut	720A200
30	Thermocouple	4000061
31	Pipe—valve to pilot	030A226
32	Olive nut for pilot pipe	220K913
33	Pilot shield	4002203
34	Pilot support bracket	330A904
35	Pilot seal	620B995

	Description	Part no.
37	Pipe—valve to main burner	3000247
38	Burner plate	4001966
39	Gaskets—module plate sides (2)	3000399
40	Gaskets—module plate front & back	3000400
42	Valve mounting bracket	4002885
43	Thermocurrent interruptor	4001037
	GV60 Valve assembly (natural gas)	4003095
44	GV60 Valve assembly (propane gas)	4003108
45	Ignition cable 500 mm	4001039
46	Ignition cable sleeve	4002244
47	Cable interruptor, red	4001035
48	Cable interroptor, yellow	4002096
49	Wiring harness	4001187
50	Receiver 'PLUS'	4001911
51	Handset G6R H3T5-ZV (BJ)	4001910
52	Handset wall holder	9000008
53	Auxiliary battery holder	4006553
54	Battery holder cable 1500 mm	4006552
55	GV60 Repair Valve Kit (not included)	4004544
56	Liner panels—complete set	
а	Reflective Glass	618RGL
b	Ceramic fluted black	620FBL
С	Valor red brick	621VRL
d	Ledgestone	622LSL
57	Rear panel	
а	Reflective Glass	4005001
b	Ceramic fluted black	4002109
С	Valor red brick	4002105
d	Ledgestone	4002113
58	Left side panel	
а	Reflective Glass	4005000
а	Infill panel	4005002
b	Ceramic fluted black	4002107
С	Valor red brick	4002103
d	Ledgestone	4002111
59	Right side panel	
а	Reflective Glass	4004999
b	Ceramic fluted black	4002108
С	Valor red brick	4002104
d	Ledgestone	4002112
60	Top panel	
а	Ceramic plain black	4002110
b	Ceramic plain black	4002110
С	Valor red brick	4002106

# **Appendix C – Spare Parts**

DescriptionPart notdLedgestone400211461Traditional Log set complete534LSK62Rear log4003798	5 6
61 Traditional Log set complete 534LSK	5 6 7
	5 6 7
02 Near 108	6 7
63 Left top log 4003796	7
64 Right top log 400379	
65 Right center log 4003798	
66 Left front log 4003800	n .
67 Right front log 400380	
68 Loose coals pieces 4001843	
69 Rock Set Complete 534RSk	
70 Rock No. 1 400182	
71 Rock No. 2 4001823	
72 Rock No. 3 4001823	
73 Rock No. 4 4001824	
74 Rock No. 5 4001825	
75 Rock No. 6 4001826	
76 Rock Base 4001792	
77 LH Twig 400182	
78 RH Twig 4001829	
79 Front Support—Platform 4001998/	
80 Ceramic Platform 4001997	
81 Glass Panel 4001836	
82 Driftwood Kit 534DW	
83 Rear Log 4005815	
84 Base Log 4005816	
85 RH Cross Log 4005616	
86 Front Log 400581	
87 LH Cross Log 4005618	
88 Small Beige Beach Pebble (3) 400308	
89 Small Grey Beach Pebble 400308	
90 Brown Beach Pebble 400308:	
91 Grey Beach Pebble 400308:	
92 Platform 4005329	



# **Appendix C – Spare Parts**

