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 in the fireplace installation manual.

⚠️ 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 appliance is a domestic room-heating 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.

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 in the fireplace installation manual.

⚠️ 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.
Welcome to Valor®

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

Please read this manual BEFORE installing and operating this appliance.

Installation ....................................................... 29
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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 valorfiresplaces.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.

• If installed with the HeatShift canopy, do not place items on top of the fireplace. This space is not a shelf (see Overview - HeatShift Canopy page 12).

• Due to its high temperatures, the appliance should be located out of traffic areas and away from furniture and draperies.

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

• 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.

• 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.

• Clothing or flammable material should not be placed on or near the appliance.
Glass windows
- 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.

**WARNING**

Do not operate this appliance with the glass front removed, cracked, or broken. Replacement of the glass front should be performed by a licensed or qualified service person. Do not strike or slam the glass front.

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.

**WARNING**

HeatShift System:
Do not cover or place items in front of or above outlet(s) or on top of fireplace!

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, etcetera. It is imperative that control compartments, burners, and circulating air passageways of the appliance be kept clean.

**WARNING**

Ceiling outlet
Front outlet
Top of fireplace
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 2.17-91 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

<table>
<thead>
<tr>
<th>Model</th>
<th>2100PKN</th>
<th>2100PKP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas</td>
<td>Natural</td>
<td>Propane</td>
</tr>
<tr>
<td>Altitude (Ft.)*</td>
<td>0-4,500 feet*</td>
<td></td>
</tr>
<tr>
<td>Input Maximum (Btu/h)</td>
<td>25,000</td>
<td>25,000</td>
</tr>
<tr>
<td>Input Minimum (Btu/h)</td>
<td>14,000</td>
<td>14,000</td>
</tr>
<tr>
<td>Manifold Pressure (in w.c.)</td>
<td>3.5”</td>
<td>10”</td>
</tr>
<tr>
<td>Minimum Supply Pressure (in w.c.)</td>
<td>5”</td>
<td>11”</td>
</tr>
<tr>
<td>Maximum Supply Pressure (in w.c.)</td>
<td>10”</td>
<td>14”</td>
</tr>
<tr>
<td>Main Burner Injector Marking</td>
<td>42</td>
<td>53</td>
</tr>
<tr>
<td>Pilot Injector Marking</td>
<td>51</td>
<td>30</td>
</tr>
<tr>
<td>Min. Rate By-Pass Screw</td>
<td>185</td>
<td>125</td>
</tr>
</tbody>
</table>

*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 2100PKN is used with natural gas.
Heater engine 2100PKP is used with propane gas.
The supply pressure must be between the limits shown in the Ratings section.

The supply connection is 1/2” NPT male and located on the wall end of the firebox. See page 31.

Electrical
The 2100P is designed to run on battery power and does not require an electrical source to operate as a heater. However, it requires electrical power to operate the overhead lighting, the WiFi module (optional), or 1270RBK Remote Blower Kit (optional)

Conversion Kits
The 2100P is supplied as natural gas or propane gas and is field convertible between fuels. See instructions packaged with the conversion kits for further information.

⚠ WARNING
A HeatShift kit is required with this fireplace.

Note: 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.
Kits & Accessories

Required Kits

<table>
<thead>
<tr>
<th>Fuel Beds (choose one)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2100BLK Birchwood Log Kit</td>
</tr>
<tr>
<td>2100RSS Rock and Shale Set</td>
</tr>
<tr>
<td>2100DWK Driftwood Log Kit</td>
</tr>
<tr>
<td>2100DGM Decorative Glass Murano Set</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Liners (choose one)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2100RGP Reflective Glass Panel</td>
</tr>
<tr>
<td>2200FBP Fluted Black Panel</td>
</tr>
<tr>
<td>2200LMP Limestone Panel</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HeatShift Outlets (choose one)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDK3 14” Plenum (2), includes grilles</td>
</tr>
<tr>
<td>LDK4 38” Plenum (compatible with Remote Blower Kit 1270RBK)</td>
</tr>
<tr>
<td>LDK7 Duct Termination Plates (2) for wall valance discharge ONLY</td>
</tr>
<tr>
<td>LDK9 30” Plenum</td>
</tr>
<tr>
<td>2100HSC HeatShift Canopy kit</td>
</tr>
</tbody>
</table>

Optional Accessories

<table>
<thead>
<tr>
<th>HeatShift Accessories (choose as needed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDK5 38” Finishing Frame, to use with LDK4</td>
</tr>
<tr>
<td>LDK6 5” diameter Aluminum 2-ply Flex Kit (qty 2 x 10’ lengths, may be cut to required length)</td>
</tr>
<tr>
<td>LDK10 30” louver for LDK9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gas Conversion Kits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2100NGK Natural Gas Conversion Kit</td>
</tr>
<tr>
<td>2100PGK Propane Gas Conversion Kit</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>1270RBK Remote Blower Kit (requires use of HeatShift LDK4 kit)</td>
</tr>
<tr>
<td>2100SFK Steel Framing Kit</td>
</tr>
<tr>
<td>GV60WIFI WiFi Module</td>
</tr>
</tbody>
</table>

Hearth Gate Hearth gates such as Cardinal’s VersaGate are available at retail stores carrying safety products for children.

About the HeatShift® System

The 2100 MUST be installed with a HeatShift Duct Kit, a convection system that redistributes the warm air flow away from the fireplace opening to a more desirable location using natural convection, without the use of a fan.

The warm air flow may be relocated to a position higher up the wall, out the sidewall, or even to another room. The result is a much cooler wall temperature above the fireplace opening for locating televisions, artwork, etc.

Refer to Appendix D of this manual for more information.

Above information accurate at the time of printing and subject to change without notice.
Dimensions and Location

Dimensions

Top View

- 9-1/4" (235 mm) Gas Line Stub at wall end
- 1/2" NPT male
- HeatShift 5" dia. outlets (4)
- Center of vent
- 4" x 6-5/8" vent collar
- Temporary valve access during installation - on this side only

End View

- 5/8" (16 mm) finishing flanges
- 5/8" (16 mm) finishing flanges

Front View

- 8" (203 mm)
- 4" (102 mm)
- 17" (432 mm)
- 11-1/4" (286 mm)

Wall End View

- 10-1/4" (261 mm)
- 18-1/2" (470 mm)
- 5-7/8" (875 mm)

Location

- Temporary valve access during installation - on this side only
- Center of vent
Installation Planning

Before Installing

**Caution**

Only qualified, license, or trained personnel should install this appliance.

1. **YOU NEED TO KNOW FROM THE HOMEOWNER:**
   - The thickness and type of wall finish around the appliance.
   - What accessories (if any) will be installed with this unit.
2. Unpack the appliance but keep the barrier screens in their packaging to protect them. Recycle the packaging.
3. Remove one of the windows (see page 26) and remove all items inside the firebox.
4. Check that you have everything, using the Pack Content sheet. Also, check that you have:
   - A fuel bed (packed separately)
   - A liner (packed separately)
   - Remote Battery and Wall Switch Kit
   - HeatShift duct kit (mandatory, packed separately)
   - Gas conversion kit (if necessary)
   - Venting accessories
   - Electrical accessories
5. Carefully read the Installers Checklist included with the fireplace for the installation sequence.

**WARNING**

A HeatShift kit MUST be installed on this appliance!

**Note:** The following steps must be done BEFORE the appliance is placed in its final position, since the connections are done from the back of the appliance:

- Electrical connections
- Gas connections
- Gas conversion (if needed)
- Wiring of the Remote Battery and Wall Switch Kit (RBWSK)
Installers can implement an all-wood framing installation for full height installations. Included standoffs on top of the unit give minimum clearance for combustible framing materials from the top of the unit.

**WARNING**

Ensure weight of wall above is NOT carried by the appliance.

**WARNING**

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 items sensitive to heat around the fireplace.

**WARNING**

HOT WALL SURFACES! The walls directly above the fireplace are constructed of non-combustible materials and, although safe, may reach temperatures in excess of 200°F (93°C) depending on choice of materials. Do not touch. Finish the walls using materials suitable for these temperatures.
Installation Planning

Overview - Steel Framing

The easiest way to frame a ceiling height installation, the Steel Framing Kit (2100SFK) allows installers to quickly and easily install a complete framing option purpose-built and size for the 2100P. Refer to the Installation Manual for this kit for more details.

**WARNING**
Ensure weight of wall above is NOT carried by the appliance.

**WARNING**
HOT WALL SURFACES! The walls directly above the fireplace are constructed of non-combustible materials and, although safe, may reach temperatures in excess of 200°F (93°C) depending on choice of materials. Do not touch. Finish the walls using materials suitable for these temperatures.

**WARNING**
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 items sensitive to heat around the fireplace.
For installations that do not extend vertically all the way to the ceiling, the HeatShift Canopy kit (2100HSC) allows the installer to install the fireplace and offset the HeatShift system to the side, maintaining visual space above the fireplace. Refer to the Installation Manual for this kit for more details.

**WARNING**

Ensure weight of wall above is NOT carried by the appliance.

**WARNING**

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 items sensitive to heat around the fireplace.

**WARNING**

HOT WALL SURFACES! The walls directly above the fireplace are constructed of non-combustible materials and, although safe, may reach temperatures in excess of 200°F (93°C) depending on choice of materials. Do not touch. Finish the walls using materials suitable for these temperatures.
WARNING
Ensure weight of wall above is NOT carried by the appliance.

4" clearance from appliance face to combustible wall (studs allowed as shown)

Combustible wall surface

Non-combustible wall finish here separating cavity from combustible projections

Combustible projections allowed in this area provided area is separated from the main cavity by non-combustible wall finish. Otherwise everything below stand-off height and within cavity must be non-combustible.

Non-combustible wall finish here separating cavity from combustible projections

Only non-combustible material in contact with the appliance above bottom edge of opening

Combustible finishing materials up to 1-1/4" (32 mm) thickness allowed below opening height. Combustible projections greater than 1-1/4" (32 mm) must be kept min. 4" (102 mm) below opening.

Framing/Finishing of projections/ Extensions around fireplace opening must be non-combustible material to 9"

Do not put furniture or objects within this area!

Combustible wall surface

Projecting surfaces within 4" (102 mm) below opening must be non-combustible

Min. 9" [229 mm] beyond, can be combustible

Non-combustible material in contact with the appliance above bottom edge of opening

Combustible finishing materials up to 1-1/4" (32 mm) thickness allowed below opening height. Combustible projections greater than 1-1/4" (32 mm) must be kept min. 4" (102 mm) below opening.
Installation Planning

**WARNING**
Ensure weight of wall above is NOT carried by the appliance.

**WARNING**
There are restrictions for where drilling and screwing may take place. See page 18 for details.

HeatShift plenum or duct plates framing required (top, front, or sides). See “Appendix D” in this manual.

Requires steel stud under outlet opening when using LDK4 plenum.

Combustible framing material. See “Appendix D” for details.

HeatShift pipes (4)
5” Ø connect to plenum or termination plates above, see Appendix D.

1/2” [13 mm] non-combustible cement board required in this zone. May be covered with max. 3/4” [19 mm] combustible finish. Combustible projections must otherwise conform to allowable clearances. See “Clearances to Combustibles” on page 13.

Max 1-1/4” [32 mm] thickness combustible wall finish allowed, if within 4” of opening.

From wall
46-3/4” [1187 mm]

Electrical box

Combustible framing material allowed.

Zero clearance stand-offs (2 front, 2 rear).

Combustible wall finish zone

Non-combustible wall finish zone

47-1/4” [1200 mm]

11-1/4” [286 mm]

8” [204 mm]

15” [381 mm]

2” [51 mm]

11” [280 mm]
**WARNING**
Ensure weight of wall above is NOT carried by the appliance.

**WARNING**
There are restrictions for where drilling and screwing may take place. See page 18 for details.

HeatShift plenum or duct plates framing required (top, front, or rear). See "Appendix D" in this manual.

Combustible studs (2) proud of wall surface required to mount framing kit. Requires solid connection to studs behind wall.

Use self-drilling screws when applying wall finishes (up to 2 layers).

HeatShift pipes (4) 5" Ø connect to plenum or termination plates above, see Appendix D.

Electrical box

Combustible finishing material allowed.

Maximum 1-1/4" [32 mm] thickness combustible wall finish allowed if within 4" of opening.

Non-combustible wall finish zone

1/2" [13 mm] non-combustible cement board required in this zone. May be covered with max. 3/4" [19 mm] combustible finish. Combustible projections must otherwise conform to allowable clearances. See “Clearances to Combustibles” on page 13.
Minimum Vertical Vent

Below is the minimum vent height when the elbow is placed directly on the appliance collar*. If calculating the vent height using additional vent lengths, subtract approximately 1-1/2” for each pipe joint. For example, an additional 12” pipe section will add approximately 10-1/2” overall to this dimension.
Non-Combustible Materials Specifications
Material 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.

Non-Combustible Cement Board
The LX1 fireplace requires a 1/2" [13 mm] thick non-combustible cement board to be used as a wall surface as indicated in “Clearances to Combustibles” on page 13. This is generally defined as the area from the bottom of the fireplace’s opening to the height of the standoffs (whether or not they are used).

Extending the cement board well beyond the minimum will help avoid cracking due to differential expansion of materials.

Pre-drill cement board with oversized holes and do not over-tighten screws to avoid cracking due to heat expansion.

Standard gypsum wall board may be used beyond the required perimeter of the cement board.

Preventing Cracking Wall Finishes
The HeatShift Duct Kit reduces the wall temperatures and minimizes the possibility of cracking wall finishes.

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

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

Be aware that temperatures on the non-combustible wall surface above the appliance can exceed 200°F.

Below are some tips on how best to avoid any cracking:

- Allow materials to dry thoroughly before finishing the wall. Cement board has the ability to absorb up to 30% 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 before final finishing will help drive out moisture.
- Always pre-drill screw holes through cement board and use screws with self-milling head.
- Always use tape over joints.
- 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 openings. Instead, provide a joint that intersects the corner.
Screwing and Drilling Restrictions

Because of gas, controls, and electrical services behind the fireplace’s walls, there are two areas where you must not drill or place screws.

See the diagrams at right for dimensional details of these restricted areas.

⚠️ WARNING

DO NOT SCREW OR DRILL in the areas marked in the diagrams at right. Electric shock and/or explosion risk present.

⚠️ WARNING

In ANY area of the fireplace (even outside of the restricted areas) choose a screw length that will not intrude into the interior of the fireplace more than 3/8” [10 mm] deep.
Venting

Vent Material
This unit is approved for installation using 4 x 6-5/8-inch co-axial direct vent pipe and accessories as listed in the “Approved Venting Components” table starting on page 52 of this manual. Follow the installation instructions supplied with the individual venting accessories.

This unit may also be converted to co-linear venting with two 3" pipes for use in solid-fuel burning fireplaces and chimneys using approved adapters and accessories. See “Approved Venting Components” on page 52.

Vent Sealing
Seal all outer coaxial pipe and elbow joints, including sectioned elbow 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 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 ¼ inch overlap.

Wall Thickness
The appliance vent is suitable for penetrating a combustible wall assembly up to 8 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.

Materials Overview

Framing Vent in Combustible Walls & Ceilings
When penetrating through combustible walls and ceilings, frame a minimum of 10 in x 10 in opening and ensure that the insulation is kept clear of the vent pipe using either a wall thimble or an attic insulation shield. Follow the installation instructions supplied with the individual venting components.

Important Installer Notice – Weather Sealing & Vapor Barriers
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 water 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.

Tape all joints (including all elbow joints)

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.
**Typical Co-axial Venting Components**

This appliance is supplied with 4x6-5/8” top vent collar. See “Approved Venting Components” starting on page 52 for a full list of recommended components.

Max. 18” if no vertical rise in vent

**Horizontal Vent**

**Sidewall Vent**

**Roof Vent**
How to Read the Venting Chart
The chart below applies to co-axial roof or wall termination.

1. Maximum 18 inch horizontal pipe section allowed when using a 90° elbow directly at the appliance. 45 degrees elbow ok on horizontal plane, along with 18” horizontal pipe.
2. The total length of the vent pipe cannot exceed 40 feet.
3. The minimum vertical height with roof termination is 6 feet.
4. Any combination of rise and run can be used as long as they are within the allowable limits shown on the chart below.
5. A maximum of 4 x 90 degrees elbows—or equivalent (2 x 45 degrees = 90 degrees)—can be used.

Venting Chart with 4” x 6-5/8” pipes

Venting Example 1
V Value = V1 (3’) + V2 (2’) + V3 (1’) = 6’
H Value = H1 (3’) = 3’
Restrictor position #6 required

Co-axial

6. Each 90° 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.)
7. 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.
8. A restrictor adjustment is required for most installations having a vertical rise—see next section. Note: The restrictors are shipped installed at the exhaust exit of the firebox, in Position 1.

Venting Chart
Allowable Co-Axial Vent Configurations with restrictor positions

Example 1
V Value = V1 (3’) + V2 (2’) + V3 (1’)= 6’
H Value = H1 (3’) = 3’
Restrictor position #6 required
Restrictor Location

MOST INSTALLATIONS REQUIRE RESTRICTORS for improved flame picture and performance. The level of restriction required depends on the vertical rise in the venting system and, to a lesser degree, the horizontal run and number of elbows.

The amount of restriction is based on laboratory tests. The ideal restrictor position may vary slightly, especially when the vent pipe length is near the limits of the acceptable configurations for each type of restrictor.

The chart on the previous page shows the vent restrictor positions required relative to the length of the vent pipe. The fireplace is installed with the restrictor in the roof of the firebox at the exhaust exit, above the firebox baffle.

Note: Adjust restrictor position before liner installation.

To access the restrictor:

1. Remove the baffle (10 screws, five on each side of the baffle).

2. Adjust the restrictor as per your installation requirement set by the table on page 21.

3. To adjust the restrictor, loosen (but do not remove) the two screws holding the plate in place, and slide it to the desired position. The position is set based on the number from the diagram below lining up with the screws. The plate is shown in Position 8 below.

4. Tighten the screws when the plate is in the desired position. Replace the firebox baffle.
**Venting**

**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

<table>
<thead>
<tr>
<th>KEY</th>
<th>VENT TERMINAL LOCATIONS - MINIMUM DISTANCES</th>
<th>MINIMUM CLEARANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Measured from the center of vent</td>
<td>Inches</td>
</tr>
<tr>
<td>A</td>
<td>Clearance above grade, verandah, porch, deck or balcony</td>
<td>12</td>
</tr>
<tr>
<td>B</td>
<td>Clearance to window or door that may be opened</td>
<td>12</td>
</tr>
<tr>
<td>C</td>
<td>Clearance to permanently closed window (recommended to prevent condensation on window)</td>
<td>12</td>
</tr>
<tr>
<td>D</td>
<td>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</td>
<td>18</td>
</tr>
<tr>
<td>E</td>
<td>Clearance to unventilated soffit</td>
<td>12</td>
</tr>
<tr>
<td>F</td>
<td>Clearance to outside corner</td>
<td>12</td>
</tr>
<tr>
<td>G</td>
<td>Clearance to inside corner</td>
<td>12</td>
</tr>
<tr>
<td>H</td>
<td>Horizontal clearance to center-line of meter/regulator assembly located within 15 feet (4.6 m) below the terminal</td>
<td>36</td>
</tr>
<tr>
<td>I</td>
<td>Clearance to service regulator vent outlet</td>
<td>36</td>
</tr>
<tr>
<td>J</td>
<td>Clearance to non-mechanical air supply inlet to the building or the combustion air inlet to any other appliance</td>
<td>12</td>
</tr>
<tr>
<td>K</td>
<td>Clearance to a mechanical air supply inlet</td>
<td>72</td>
</tr>
<tr>
<td>L</td>
<td>Clearance above paved sidewalk or a paved driveway located on public property</td>
<td>84</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> A vent must not terminate directly above a sidewalk or paved driveway, which is located between two single-family dwellings and serves both dwellings. <strong>THIS DOES NOT APPLY to direct vent, non-condensing appliances in the Province of Ontario.</strong></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>Clearance under a verandah, porch, deck or balcony</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Only permitted if veranda, porch, deck or balcony is fully open on a minimum of 2 sides beneath the floor</td>
<td></td>
</tr>
</tbody>
</table>

Note: Local codes and regulations may require different clearances.
Vertical Vent Termination

<table>
<thead>
<tr>
<th>Roof Pitch</th>
<th>Minimum &quot;H&quot; (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat to 7/12</td>
<td>1'</td>
</tr>
<tr>
<td>Over 7/12 to 8/12</td>
<td>1.5'</td>
</tr>
<tr>
<td>Over 8/12 to 9/12</td>
<td>2'</td>
</tr>
<tr>
<td>Over 9/12 to 10/12</td>
<td>2.5'</td>
</tr>
<tr>
<td>Over 10/12 to 11/12</td>
<td>3.25'</td>
</tr>
<tr>
<td>Over 11/12 to 12/12</td>
<td>4'</td>
</tr>
<tr>
<td>Over 12/12 to 14/12</td>
<td>5'</td>
</tr>
</tbody>
</table>

Overhang should not extend beyond vent if within 48" of termination cap.

Min. 24" (unvented soffit)
Min. 36" (vented soffit)
Co-Linear Vent Installations

Co-linear portion of vent system may only be installed within a solid-fuel burning fireplace and chimney. The appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.

Requires co-axial to co-linear adapter, two lengths of 2-ply flexible 3-inch diameter chimney liner, both approved for venting gas appliances.

The required fireplace dimensions and clearances are shown in Dimensions and Location and Clearances to Combustible Materials sections of this manual (page 8 and 13 respectively).

Fit the liners to the co-linear adapter paying attention to inlet and exhaust as well as the minimum liner bend radius.

Rules for Co-Linear Venting

• Min 10’, max 40’ vertical pipe
• Max offset 8’ with liners at minimum 45° from horizontal plane
• Restrictor: Use restrictor position listed in vent chart on page 21.

![Co-Linear Terminal](image)

10”
3” Inlet & Exhaust Collars

![Flashing Kit](image)

18”
16”

Co-Axial to Co-Linear Adapters

Alternate Co-Linear to Co-Axial Conversion

Terminal Cap

Co-Linear to Co-Axial Adapter

With...

Flashing
Appliance Preparation

Unpacking the Fireplace

1. Remove packaging from appliance and discard.
2. Unpack any loose items from around the appliance.
3. **Verify that you have all the components required for the installation, including:**
   - approved non combustible cement board;
   - liners and fuel bed (in separate cartons);
   - chosen LDK HeatShift components;
   - venting components and accessories;

Remove the Windows

Note: most operations involved in setting up the fireplace are performed from the control panel side pictured in step 2 below. You may only need to remove the window on that side when first setting up the fireplace.

1. Remove the Hot Glass Warning plate.

   ![WARNING: EXTREMELY HOT GLASS AND FIREPLACE]

2. Locate the window retainer hooks.

   ![Retainer hook locations (2 per side)]

3. Hook the window handle to one of the spring loaded window levers.

4. Pull the window retainer hooks out and up from the railing at the top of the side windows.

5. Pull the top of the window out and up into the gap between the firebox and outside of the fireplace. (Note the plates have been removed from this image for clarity, but you do not need to remove them to pull the window out).

6. Pull the bottom edge out and down.

7. Repeat steps 4-6 for the other side window (if needed).
Appliance Preparation

Installing Carrying Handles
The fireplace ships with two carrying handles attached to the shipping pallet - they must be properly attached to the fireplace for lifting the unit.

1. Locate the handles. They are screwed onto the shipping pallet.

2. A plastic bag with screws for installation is attached to one of the handles. Remove handles and the bag, and save the screws.

3. Fasten handle on the wall end with six screws.

4. On the other end of the unit, fasten the other handle on with six screws.

5. With the handles installed, the fireplace is now ready to lift. Unscrew the fireplace feet from the pallet.

The handles may be removed and discarded when the unit is placed in its final location and ready for installation.

⚠️ Caution
Do not lift the unit without using the carrying handles.
Appliance Preparation

Install Top Standoffs
If installing using combustible framing, the included standoffs on top of the unit must be set up. When shipped, the standoffs are installed laying flat against the unit and screwed in at one end.

Each standoff has three perforated lines on it. Fold along the perforations to create a triangular shape.

Installing Standoffs
Once all four standoffs are folded up, screw each one down at its remaining connection point.

Combustible framing above the fireplace may not be used below the top of the installed standoffs.

If installing the Steel Framing Kit, you may simply unscrew and discard the standoffs.
Installing Electrical Wiring
This section provides information to install the electric wiring required for use with your fireplace’s lighting and other options.

All wiring must be done by a qualified electrician 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.

Electrical Requirements
120 V, 60 Hz, grounded supply, less than 1 amp.

General Requirements
The included V-Module power supply includes a three-prong grounded plug to plug into a grounded receptacle, also included with the fireplace. The receptacle needs to be wired up within the fireplace enclosure by a qualified electrician.

Installation
1. Locate the electric box at the wall end of the fireplace.
2. Remove the cover (4 screws).
3. Open the cover and pull out the 3 wires and terminal blocks attached to the receptacle inside the box.
4. Punch out the cover knockout you want to pass the supply wiring through.
5. Install strain relief (not supplied) and pass supply wiring through. Do not tighten strain relief yet.
6. Connect like wires using supplied terminal blocks.

7. Screw the cover plate back onto the fireplace, and tighten the strain relief.

8. The plug-in outlet within the firebox is now ready to provide power to the V-module (already plugged in).

**Accessing Junction Box After Finishing**

To access the electrical junction box after wall finishing is complete and the fireplace is operational, you must remove the bottom plate.

This will give you partial access to the front of the junction box (enough to plug in), but it will be partly obscured by the vertical plate.

To gain complete access, also remove the top plate (3 screws) and vertical plate (2 screws).
Connecting Gas Supply
The gas supply inlet connection is a 1/2" NPT male connector located on the wall end of the firebox.

Wall End View of Fireplace

The unit is supplied with a stainless steel flex line to allow the appliance to be disconnected for service. An individual shut-off valve is supplied within the unit on the supply line.

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

Unions 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 LP gas. Sealant should be applied lightly to male threads to ensure excess sealant does not enter gas lines.

Locating Gas Valve
Once connected, gas may be isolated within the unit using its built-in valve.

The valve is located as shown below. It is easiest to access by removing the bottom plate (magnetic) on this side.
Gas Supply

Installation

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 (3.5 kPa).
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 (3.5 kPa).
Failure to either disconnect or isolate the appliance during pressure testing may result in regulator or valve damages and void the warranty. Consult your dealer in case of damages.

Caution
Never use an open flame to check for leaks! Correct any leak detected immediately.

Pressure Test Points
The minimum supply pressure is given in the Specifications section of this manual, see page 6.
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.
The pressure test tapping locations are shown in the figure below. An internal regulator within the valve controls the burner manifold pressure.
The correct pressure range is shown in the table in section Specifications of this manual on page 6. The pressure check should be made with the burner alight and at its highest setting. See Lighting Instructions in Appendix A at the end of this manual for full operating details.
 Installing Wall Switch Kit

A remote battery wall switch kit is provided with this appliance. It is connected to the receiver in the fireplace. The receiver is located under the bottom plate.

1. Decide where the switch is to be installed in the wall. Do not locate the switch within the non-combustible zone above the fireplace.

2. Thread the harness through the access hole in the appliance, located below the electrical junction box. DO NOT run the wire over top of the appliance.

3. Pull out the receiver. You can remove the ignition wire to improve access.

4. Take the signal wire and plug it into the receiver’s connection slot as indicated (the other slot should already be fitted with the valve’s wire harness connector!)

5. Connect the 6 volt power wire to the receiver.

6. On the outside of the fireplace, run the harness to the junction box location. Use insulated type staples to secure the wiring to framing.

7. Feed the harness assembly through a restraint on the rear of the junction box, feeding through until the harness sheath is pinched by the retainer. Ensure there is sufficient wire length inside the junction box to make connection to the switch plate and battery holder.

8. Secure the junction box to the mounting surface using appropriate fasteners (not supplied).
9. Plug the signal wire into the switch plate.

10. Mount the switch plate to the junction box with 2 screws provided. Note: Place the switch left or right to suit the homeowner’s wishes.

11. Locate and secure the magnet plates using 2 long screws provided.

12. Place and secure the cover plate to the box using 4 screws provided.

13. Feed the cable tie through the 2 side slots of the battery cover assembly.

14. Position the battery holder to the rear face and secure together with a cable tie. Note that clearance is required for power wire connection.

15. Insert 4 AA alkaline batteries in the battery holder.

16. Connect the power wire to the battery holder.

17. Insert battery assembly into the junction box.

18. Reconnect the ignition wire to the receiver if it was previously removed. IMPORTANT: Make sure the ignition wire DOES NOT TOUCH the receiver’s antenna.

19. Test the operation of the wall switch—see Appendix C.

20. Replace the receiver in its position and as well as the antenna if deployed. IMPORTANT: The antenna MUST NOT TOUCH the ignition wire.

---

**Caution**

DO NOT PUT BATTERIES IN THE BATTERY HOLDER until the wires are connected to the burner control unit as short-circuit could result in the destruction of the electrical components.

DO NOT USE a screwdriver or other metallic object to remove the batteries from the battery holder or the handset! This could cause a short circuit to the receiver.

Do not run the switch wire over the top of the firebox. Route the wire so it does not contact the firebox.

To avoid short-circuit to the receiver, position the antenna so that it DOES NOT TOUCH the ignition wire.
Installing a Ceramic Liner
The ceramic Limestone (2200LMP) and Fluted Black (2200FBP) liner kits are both installed the same way.

1. Loosen (but do not remove) the screw next to the panel retaining bracket in the roof of the fireplace, and slide the bracket away from the wall.

2. Insert the top of the liner (the thinner end) in the gap between the wall and the retaining bracket.

3. Swing the bottom of the liner toward the wall until flat.

4. Slide the retaining bracket against the liner and tighten the screw.

5. Slide the bottom clip down onto the metal edge at the bottom of the liner.

⚠️ Liners are fragile, never force one into place.
Installing a Glass Liner
The 2100RGP Reflective Glass liner is installed differently than the ceramic liners.

1. Loosen (but do not remove) the screw next to the panel retaining bracket in the roof of the fireplace, and slide the bracket away from the wall.

2. Slide the liner in from either side, between the wall and the light rail and retaining bracket.

3. Slide the retaining bracket against the liner and tighten the screw.

4. Fold the bottom clip along its perforation into a right angle, as shown.

5. Slide the bottom clip down onto the metal edge at the bottom of the liner.

⚠️ Liners are fragile, never force one into place.

⚠️ If you have difficulty inserting the liner from one side, remove the opposite window and install from the other side.
Installation

Installing Birch Log Kit 2100BLK

Material required
• Birch Log Kit, which contains:
  • 7 logs
  • 2 supports
  • 1 bag of embers (not pictured)
  • 1 bag of splinters (not pictured)
  • Gloves, if desired

Log placement on media tray and burner. Black dots indicate holes for support placement.

Installation
Carefully unpack the kit. Note the logs have numbers pressed into their undersides. Install the logs as follows.
1. Place 2 supports over the holes indicated by the two black dots in the diagram above.
2. Place log L4 on top of the left hand support, and position log across the media tray.
3. Place log L8 on top of the right hand support, and position log across the media tray.
4. Place log L3 across log L4 as shown.
Installation

5. Place log L6 across log L4 as shown.

6. Place log L12 across log L6 as shown.

7. Place log L1 across log L8 as shown.

8. Place log L9 in the open space between logs L8 and L4 as shown.

9. Place embers by hand onto the burner and media tray (avoid pouring as this can deposit fine dust in the burner ports). You may not need to use all the embers supplied. Be careful not to block any burner ports.

10. Be sure to keep the pilot light safe zone clear of all embers. This allows for proper ignition of the fireplace.

11. Place splinters by hand into the burner and media tray. You may not need to use all the splinters supplied. The completed arrangement will look like the one shown below.

• Note some minor adjustments may be needed to improve flame picture.
Installation

Installing Driftwood Kit 2100DWK

Material required
• Driftwood Log Kit, which contains:
  • 5 logs
  • 7 pebbles
  • 1 x 5.5 cup bag of vermiculite (not pictured)
• Gloves, if desired

Log placement on media tray and burner. Black dots indicate holes for pin placement.

Installation
Carefully unpack the kit. Note some logs have pins and holes to help you place them on the burner platform, or other logs.
Install the kit as follows.

1. Place the vermiculite onto the burner by hand (avoid pouring as this can deposit fine dust in the burner ports). Be careful not to overfill and block any burner ports. (You should hold back at least half of the bag)

2. Do not place more than a couple of pieces of vermiculite in the pilot light’s safe zone.

3. Place log 2966 using the two pinholes indicated.
4. Place log 3720 into the two pinholes behind the pilot light. Note this leaves a pin pointing straight up.

5. Place log 2965 into the two pinholes shown.

6. Place log 2967 into the two pinholes shown.

7. Place log 2939 onto the pin on log 3720. Leave the other end of log 2939 across the media tray.

8. The arrangement should now look like this.

9. Add the remaining vermiculite around the media tray. You may not need to use the entire bag.

10. Place the pebbles around the media tray and burner to your taste. Place a maximum of 2 pebbles on the burner, the rest around the media tray. The completed arrangement will look like the one below.

- Note some minor adjustments may be needed to improve flame picture.
Installing Rock and Shale Set 2100RSS

Material required
• Rock and Shale Set, which contains:
  • 4 logs
  • 24 rocks
  • 2 bags of light and dark embers (not pictured)
  • Gloves, if desired

Installation
Carefully unpack the kit. Install the set as follows.
1. Mix together the 2 bags of light and dark embers.
2. Place the mixed embers by hand onto the burner (avoid pouring as this can deposit fine dust in the burner ports). Be careful not to completely block any burner ports. You may not need to use the entire ember mix.
3. Ensure the pilot light safe zone is not blocked by embers. This is important to ensure proper ignition.
4. Select three rocks that will stand on a narrow edge, and place them, one at each end of the burner, and one behind the pilot hood.
5. Place the remaining rocks around the edge of the burner.
6. Place the left hand logs (1 each of 1828 and 1827) as pictured. Both should be arranged to arch over the embers as much as possible instead of resting directly on them.
7. Repeat on the right hand side of the fireplace.

8. The completed arrangement will look like the one below.

- Note some minor adjustments may be needed to improve flame picture.
Installing Glass Murano Set 2100DGM

Material required
• Decorative Glass Murano Set, which contains:
  • 2 Murano glass covers
  • 8 x 1/4” ceramic pads (not pictured)
  • 1 bag 1/2” clear fireglass (not pictured)
• Gloves, if desired

Installation
Carefully unpack the kit. Install the set as follows.
1. Arrange the 1/4” ceramic pads evenly on the media tray, surrounding the burner.

2. Place glass covers 6857 and 6858 onto the ceramic pads as shown. Note the cutout in 6857 that fits around the pilot light.

3. Place fireglass onto the burner by hand. You may not need to use the entire bag.

4. Ensure the pilot safe zone is clear of fireglass. This ensures proper ignition.

5. The completed arrangement will look like the one below.

• Note some minor adjustments may be needed to improve flame picture.
Remote Control Initial Pairing
The receiver and the handset of the remote control system must be initially paired before the first use.

1. Insert two 1.5 V AAA alkaline batteries in the handset.
2. Locate the Reset button on the front side 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. After the second beep, release the reset button.
4. Within the subsequent 20 seconds, press and hold the button on the remote handset for 2–3 seconds. will be displayed on the handset during the pairing sequence. You will hear two short beeps confirming the pairing is done.
5. If you hear one long beep, the pairing sequence has failed or the wiring is incorrect.

This is a one time pairing only and is not required when changing the batteries of the handset or receiver. The remote control system is now ready to use.

See “Appendix B - Remote Control Operation” on page 58 for full operating details.
Installing Remote Control 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. Cover the screws with the included caps to finish the mounting.

Once mounted, the holder is magnetic - simply place the remote gently into the holder.

IMPORTANT: The location of the remote control handset is important to assure 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.
Replacing Light Bulbs

Lighting
This appliance is equipped with decorative lighting located above the fuel bed.

Test this overhead lighting before completing installation (see “Appendix B - Remote Control Operation” on page 59). If any of the bulbs are out, replace them using the following steps.

Required Bulbs
The light bulbs in the LX1 are 120V, 20W bi-pin (JC) halogen bulbs GY6.35. A total of 4 are installed in the unit.

Remove Barriers and Windows
Changing the light bulbs requires access to the inner firebox. See “Remove the Windows” on page 26 for details on removing the windows from the fireplace.

It is easiest to see and change the light bulbs opposite the window you are opening. You may find it easier to remove both front windows if bulbs on both side of the appliance need changing.

Change Bulbs
Wear gloves when changing these bulbs. Most manufacturers recommend never touching them as oil from your skin can shorten their life.

1. Gently pull the bulb out of the receptacle in the lighting rail.
2. Replace with a new bulb. Be careful to align pins with the receptacle holes.
3. Test the lighting with the remote control handset before replacing windows (lighting can operate independent of main fire being on or off).
4. Reinstall windows following steps next page.
Window Re-installation

1. Remove any fuel bed media from the window bottom rail before installing the window.
2. Ensure the braided gasket is well fitted to the bottom of the window.
3. Insert the window behind the appliance’s front panel, making sure the angled rail at the top is facing out.
4. Lower the bottom of the window into the bottom rail.

5. Push the top of the window pane against the firebox. Ensure it is centered on the firebox so it seals properly against the end window.

6. Pull one retainer hook over the angled rail at the top of the window, and hook it down completely. Repeat on the other side. Make sure the hooks latch completely to the rail.

7. Repeat steps 1 to 6 for the other side window.
8. Pull the top of each window to ensure it the spring mechanisms are working well and pull the window back into position.

9. Apply firm hand pressure around the window panes (particularly on the top and sides). ENSURE THE FRONT WINDOWS SILICONE GASKETS ARE WELL SEALED, FROM TOP TO BOTTOM, TO THE SIDE WINDOWS!

10. Replace the hot glass warning plate against both side windows, in the bottom rail.
11. When finished, replace barrier screens onto fireplace.

**WARNING**
The window units must be correctly installed, fastened and sealed after servicing. If not it could result in serious bodily injury and/or damage to the fireplace.

To ensure safe operation:
- Double-check that the bottom of each window frame is correctly installed in the bottom support railing;
- Verify that the retainer hooks are properly fastened to the top angle brackets;
- Pull out the top of each side window and release it to ensure the springs return it;
- Ensure the window is sealed before operation.

For safety purposes, make sure the barrier screen is re-installed on the fireplace front after maintenance.

**WARNING**
Failure to install the window correctly can:
- Cause carbon monoxide to leak.
- Affect the performance of the fireplace.
- Damage components.
- Cause overheating resulting in dangerous conditions.

Damage caused by incorrect window installation is not covered by the Valor Warranty.
Checking Operation

Turn the fireplace flame up and down using the remote control to confirm that the full range of inputs is achieved—see the remote control operation instructions in “Appendix B - Remote Control Operation” on page 59.

Locating Aeration Control

Adjusting Aeration

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

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

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

Decreasing aeration will cause the flames to appear more yellow or orange showing less ceramic effects glow.

Too little aeration may result in black carbon forming on logs or roof panel and dropping into the firebox.
### Installation

#### Installing Plates
For safety, install all plates (top and bottom) as supplied with the fireplace if they have been removed.

The top and vertical plates are screwed in place.

The bottom plates are magnetic and do not require any tools to install. To replace them:

1. Place the plate on the fireplace’s front flange.
2. Slide the plate sideways toward the wall end, all the way to the end.

3. Repeat for other side.

#### Install Barrier Screens
For safety, install all barrier screens as supplied with the fireplace. The screens are magnetic and do not require any tools to install.

Show the customer how to remove the barrier screens and plates to access the controls, and how to replace them.
## Approved Venting Components

<table>
<thead>
<tr>
<th>Venting Parts Description</th>
<th>DURA-VENT</th>
<th>SELKIRK</th>
<th>ICC EXCEL DIRECT</th>
<th>SECURE VENT</th>
<th>RH INDUSTRIES</th>
<th>AMERIVENT</th>
<th>MILES INDUSTRIES</th>
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<td>46DVA-17TAB</td>
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NOTE: 2-ply liner approved to CAN/ULC S635 suitable for venting gas appliances. As manufactured by Z-Flex, Flexmasters or others.

**Adjustable Pipe Length and Pipe Extensions**

<table>
<thead>
<tr>
<th>4” x 6-5/8”</th>
<th>11” to 17”</th>
<th>16.5” - 29”</th>
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<tbody>
<tr>
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<td>46DVA-17TAB</td>
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<tr>
<td>Galvanized or Black</td>
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**Coaxial Flex**

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<tr>
<th>46DVA-48FF</th>
<th>46DVA-120FF</th>
<th>4DT-ADJ</th>
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**DV 45° Elbows**

| 46DVA-E45 | — | — | — | 4D45L |
| 46DVA-E45B | — | — | — | 4D45LB |
| 4D455 | — | — | — | 94620645 |
| 46DVA-E90 | — | — | — | 4D90L |
| 46DVA-E90B | — | — | — | 4D90LB |
| 4D905 | — | — | — | 94620690 |
| 46DVA-EL45 | — | — | — | SV4EL5 |
| 46DVA-EL45 | — | — | — | SV4EB5 |

**DV 90° Elbows**

| 46DVA-E90 | — | — | — | 4D90L |
| 46DVA-E90B | — | — | — | 4D90LB |
| 4D905 | — | — | — | 94620690 |
| 46DVA-EL90 | — | — | — | SV4EB90 |

**DV 90° Elbows**

| 46DVA-EL90 | — | — | — | SV4EB90 |

**DV 90° Elbows**

| 46DVA-EL90 | — | — | — | SV4EB90 |

**DV 90° Elbows**

| 46DVA-EL90 | — | — | — | SV4EB90 |

**DV 90° Elbows**

| 46DVA-EL90 | — | — | — | SV4EB90 |
### Approved Venting Components

<table>
<thead>
<tr>
<th>Pipes 4&quot; x 6-5/8&quot; (ID x OD)</th>
<th>Venting Parts Code / availability by Manufacturer</th>
<th>DURA-VENT</th>
<th>SELKIRK</th>
<th>ICC EXCEL DIRECT</th>
<th>SECURE VENT</th>
<th>RLH INDUSTRIES</th>
<th>AMERIVENT</th>
<th>MILES INDUSTRIES</th>
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### Various Venting System Parts

| Wall Thimble                | 46DVA-WT  | 4DT-WT  | TM-WT  | SV4SM | — | 4DWTS | — | 949064U |
| Storm Collar               | 46DVA-SC  | 4DT-SC  | TM-SC  | SV4AC | — | 4DSC  | — | 94960608 |
| Decorative Plate           | 46DVA-DC  | 4DT-CS  | TM-4TR | TM-4TP | SV4PF | — | 4DFPB  | — | 94940612 |
| Cathedral Ceiling Support  | 46DVA-CS  | 4DT-CCS | TM-4SS | — | — | 4DRSB | — | 949506KT |
| Ceiling Firestop / Floor Support | 46DVA-FS  | 4DT-FS  | TM-4RS  | TM-4SF | SV4BF | — | 4DFSP  | — | 94980612 |
| Attic Radiation Shield / Firestop | — | — | TM-4AS | — | — | 4DAIS12 (12") | — | 4DAIS36 (36") | 94930620A |
| Wall Strap                 | 46DVA-WS  | 4DTWS  | TM-WS  | — | — | 4DWS  | — | 949164 |
| Vinyl Siding Standoff      | 46DVA-VSS | 4DT-VS  | TM-VSS | SV4VS | — | 4DHVS  | — | 948006155 |
| Elbow Strap / Offset Support | 46DVA-ES  | 4DT-OS  | TM-OS  | — | — | — | — | 949264 |
| Terminal Guard             | 46DVA-WG  | — | TM-HTS | — | — | — | 845TG  | 658TG | 940164SHRD |

**Notes:**
1. Follow instructions supplied with each manufacturer's components.
2. Unless otherwise specified, all the parts and assemblies from the above table are to be used with 4" x 6-5/8" pipes.
3. Do not mix components from different vent manufacturers.
4. Termination caps manufactured by RLH Industries or American Metal Products are from Homestyle Chimney Collection and can be ordered in one of the following finishes: a) aluminium; b) black powder coated; c) solid copper.
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

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 be 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 the 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 (Fig. 1). Locate the pilot (Fig. 3) inside the firebox.
   On the remote control handset, press the button; 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 button on the remote control handset to reduce the flame height.

4. MANUAL IGNITION: MAN-knob (2) in MAN position (Fig. 2).
   With the window off, locate the pilot (Fig. 3) inside the firebox. Set Flame Adjustment knob (3) to the lowest setting. Push down the metallic core (4) with a pen 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 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 or down manually or use the and buttons on the remote control handset to adjust the flame height.

TO TURN OFF GAS TO APPLIANCE

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

CAUTION: Due to high surface temperature, keep children, clothing and furniture away. Keep burner and control compartment clean.
See installation and operating instructions accompanying the appliance.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner’s information manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency or gas supplier.

THIS APPLIANCE MUST BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, IF ANY. IF NONE, FOLLOW THE NATIONAL FUEL GAS CODE, ANSI Z 233.1, OR CANADIAN INSTALLATION CODES, CAN/CGA-B149.
Appendix B - Remote Control Operation

Initial Pairing
Before the remote control can be used with the fireplace, it must be paired. See “Remove the Windows” on page 26.

Main Display

To Turn On Fire

💡 NOTE: When pilot ignition is confirmed, motor automatically turns to maximum flame height.

One-Button lighting (default): 🕒
Two-Button lighting: ⏪ + ⏪ simultaneously

Press and hold for 4 seconds, until 8 short beeps and a blinking series of lines confirms the start sequence has begun. Release button.

Main gas flows once pilot ignition is confirmed.

Handset automatically goes into manual mode after main burner ignition.

Standby Mode (Pilot Flame)
Press and hold ⬇️ to set appliance to pilot flame.

⚠️ CAUTION: If the pilot does not stay lit after several tries call your local service technician or gas supplier.

To Turn Off Fire
Press ⏪ to turn OFF.

Note: There is a 2 minute delay after switching off before the next ignition is possible.

⚠️ CAUTION: Always check the fire and pilot visually to ensure they are off.

Flame Height Adjustment
To increase flame height, press and hold ⬆️.

To decrease flame height, press and hold ⬇️. You may hold the button down until the fire is set to pilot flame only.
Designated Low Fire and High Fire
To go to low fire, double-click ▼, “LO” is displayed.

Note: Flame goes to high fire first before going to low fire.

To go to high fire, double-click ▲, “HI” is displayed.

Choosing 1-Button or 2-Button Ignition
On the remote control handset, you can choose a 1-button or 2-button ignition. You can also choose to activate or deactivate some of the functions. By default, the handset is set to a 1-button ignition.

To change from 1-button to 2-button ignition, remove the batteries, wait 10 seconds, reinsert batteries, and immediately when the display flashes, press and hold the button for 10 seconds. ON is displayed and 1 is flashing. When change is complete, 1 changes to 2.

To change from 2-button to 1-button ignition, proceed the same as above. ON is displayed and 2 is flashing. When change is complete, 2 changes to 1.

Deactivating or Activating Functions
These functions are active by default, but can be deactivated at any time:
• Child Proof
• Program Mode
• Thermostatic Mode
• Eco Mode
• Circulating Fan Operation
• Countdown Timer

To deactivate functions:
1. Install batteries. All icons are displayed and flashing.
2. While the icons are flashing, press the relevant function button and hold for 10 seconds.
3. The function icon will flash until deactivation is complete. Deactivation is complete when the function icon and two horizontal bars (──) are displayed.

Note: If a deactivated button is pressed, there is no function, and the two horizontal bars are displayed.

To activate functions:
1. Install batteries. All icons are displayed and flashing.
2. While the icons are flashing, press the relevant function button and hold for 10 seconds.
3. The function icon will continue to flash until activation is complete, and then turn solid. Activation is complete when the function icon is displayed.

Setting Celsius or Fahrenheit
To change between °C and °F, press and hold + simultaneously.

Note: °C = 24-hour clock
°F = 12-hour clock

Setting the Time
2. Press + to select a number to correspond with the day of the week.
   • 1 = Monday
   • 2 = Tuesday
   • 3 = Wednesday
   • 4 = Thursday
   • 5 = Friday
   • 6 = Saturday
   • 7= Sunday
4. To select hour press or .
5. Press + simultaneously. Minutes flash.
6. To select minutes press or .
7. To confirm, press + simultaneously or wait.
Appendix B - Remote Control Operation

Child Proof
Your handset can be set to lock out all commands to the fireplace, except OFF.

To turn Child Proof ON:
1. Press and hold + simultaneously.
2. is displayed. Child Proof is now active.

To turn Child Proof OFF:
1. Press and hold + simultaneously.
2. disappears. Child Proof is now inactive, and the handset has full function.

Countdown Timer
You can set your fireplace to automatically turn off at the end of a timer.

To set a Countdown Timer:
1. Press and hold until is displayed. Hour flashes.
2. Press or to select Hour.
4. Press or to select Minutes.
5. To confirm, press or wait.

To turn off a Countdown Timer:
1. Press , and the countdown disappears.

Note: The Countdown Timer only works in Manual, Thermostatic, and Eco modes. Maximum countdown time is 9 hours and 50 minutes.

Light/Dimmer Operation

On:
Press , is displayed. Light is on at preset level.

Off:
Press , disappears. Light turns off.

Setting:
1. Press and hold until flashes.
2. To adjust light between 20-100% press or.
3. To confirm setting either press or wait.

Note: The light works independently of the pilot flame. If you want the light on but no flame, press button.
Appendix B - Remote Control Operation

Modes of Operation

Thermostatic Mode
The room temperature is measured and compared to the set temperature. The flame height is automatically adjusted to achieve the set temperature.

Program Mode
The temperature is controlled by Programs 1 and 2, each of which can be set to go on and off at specific times, at a set temperature.

Eco Mode
Flame height modulates between high and low. If the room temperature is lower than the set temperature, the flame height stays on high for a longer period of time. If the room temperature is higher than the set temperature, the flame height stays on low for a longer period of time. One cycle lasts approximately 20 minutes.

Manual Mode
The on/off status of the fireplace, as well as flame height, are manually controlled by the user.

Thermostatic Mode

On:
Press \( \square \), \( \downarrow \) is displayed. Preset temperature displays briefly, followed by the room temperature.

Setting Desired Temperature:
1. Press and hold \( \square \) until \( \downarrow \) is displayed and set temperature flashes.
2. To adjust set temperature, press \( \uparrow \) or \( \downarrow \).
3. To confirm, press \( \square \) or wait.

Off:
1. Press \( \square \).
2. Press \( \uparrow \) or \( \downarrow \) to go to Manual Mode.
3. Press \( \square \) to go to Program Mode.
4. Press \( \square \) to go to Eco Mode.

Program Mode

On:
Press \( \square \), \( 1 \) or \( 2 \), ON or OFF are displayed.

Off:
1. Press \( \square \), \( \uparrow \), or \( \downarrow \) to go to Manual Mode.
2. Press \( \square \) to go to Thermostatic Mode.
3. Press \( \square \) to go to Eco Mode.

Note: The set temperature for Thermostatic Mode is the temperature for the ON time in Program Mode. Changing the Thermostatic Mode set temperature also changes the ON time temperature in Program Mode.

Default Settings:
• ON TIME (Thermostatic) TEMPERATURE: 70°F / 21°C
• OFF TIME TEMPERATURE: “—” (pilot flame only)
**Appendix B - Remote Control Operation**

**Temperature Setting:**
1. Press and hold \( \text{\textcircled{\text{Q}}} \) until \( \text{\textcircled{\text{Q}}} \) flashes. \( \text{ON} \) and set temperature (set in Thermostatic Mode) is displayed.
2. To continue, press \( \text{A} \) or wait. \( \text{\textcircled{\text{Q}}} \) displayed, temperature flashes.
3. Select off temperature by pressing \( \text{A} \) or \( \text{V} \).
4. To confirm, press \( \text{\textcircled{\text{Q}}} \).

**Note:** The on (Thermostatic) and off set temperatures are the same for each day.

**Day Setting:**
1. ALL flashes. Press \( \text{A} \) or \( \text{V} \) to choose between:
   - ALL = same settings ON-OFF every day
   - SA:SU = same settings ON-OFF Saturday and Sunday
   - 1, 2, 3, 4, 5, 6, 7 = daily timer—unique ON-OFF settings for a single day of the week, for multiple days of the week or for every day of the week.
2. To confirm, press \( \text{\textcircled{\text{Q}}} \).

**ALL Selected**

**On Time Setting (PROGRAM 1)**
1. \( \text{\textcircled{\text{Q}}} \), \( \text{1, ON} \) are displayed. ALL is displayed briefly. Hour flashes.
2. To select hour, press \( \text{A} \) or \( \text{V} \).
3. To confirm, press \( \text{\textcircled{\text{Q}}} \). \( \text{\textcircled{\text{Q}}} \), \( \text{1, ON} \) are displayed. ALL displayed briefly. Minutes flash.
4. To select minutes, press \( \text{A} \) or \( \text{V} \).
5. To confirm, press \( \text{\textcircled{\text{Q}}} \).

**Off Time Setting (PROGRAM 1)**
1. \( \text{\textcircled{\text{Q}}} \), \( \text{1, OFF} \) are displayed. ALL is displayed briefly. Hour flashes.
2. To select hour, press \( \text{A} \) or \( \text{V} \).
3. To confirm, press \( \text{\textcircled{\text{Q}}} \). \( \text{\textcircled{\text{Q}}} \), \( \text{1, OFF} \) are displayed. ALL displayed briefly. Minutes flash.
4. To select minutes, press \( \text{A} \) or \( \text{V} \).
5. To confirm, press \( \text{\textcircled{\text{Q}}} \).

**Note:** Either continue to PROGRAM 2 and set ON and OFF times or stop programming at this point, and PROGRAM 2 remains deactivated.

**Note:** PROGRAM 1 and 2 use the same ON (Thermostatic) and OFF temperatures. Once a new ON (Thermostatic) and/or OFF temperature has been set, that temperature becomes the new default setting.

**Note:** ON and OFF times programmed for PROGRAM 1 and PROGRAM 2 become the new default times.

The batteries must be removed to clear the PROGRAM 1 and PROGRAM 2 ON and OFF times and temperatures.

**SA:SU or Daily Timer (1-7) Selected**
- Set on time and off time using the same procedure as “ALL Selected” above.
- Waiting to finish setting.

**Eco Mode**

**On:**
Press \( \text{\textcircled{\text{E}}} \) button to enter Eco Mode. \( \text{\textcircled{\text{E}}} \) is displayed.
Flame height modulates between high and low every 20 minutes.

**Off:**
Press \( \text{\textcircled{\text{E}}} \) button to exit Eco Mode. \( \text{\textcircled{\text{E}}} \) disappears.
Appendix B - Remote Control Operation

Low Battery Indication

⚠️ CAUTION: Do not use a screwdriver or other metallic object to remove the batteries from the battery holder or the handset. This could cause a short circuit.

Handset
The battery icon 🌐 will show when the battery needs to be replaced. Replace with two 1.5 V AAA alkaline batteries.

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

Automatic Shut Off

Countdown Timer
At the end of countdown time period, the fire turns off. The Countdown Timer only works in Manual, Thermostatic, and Eco Modes. Maximum countdown time is 9 hours and 50 minutes.

Low Battery Receiver
With low battery power in the battery holder, the system shuts off the fire completely. (This will not happen if the power is completely interrupted.)

Seven Day Shut Off
The system shuts off the fire completely if there is no change in flame height for 7 days.

Automatic Turn Down

3 Hour No Communication Function
The valve will turn to pilot flame if there is no communication between the handset and receiver for a 3-hour period. The fire will continue to function normally when communication is restored.

Radio Frequency
918.0 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.
## Error Codes

In the event of an error condition with the handset or fireplace, the handset will display an error code.

<table>
<thead>
<tr>
<th>Failure Code</th>
<th>Message on Handset</th>
<th>Duration of Display</th>
<th>Symptom</th>
<th>Possible Cause</th>
</tr>
</thead>
</table>
| F04          | F04                | 4 sec               | • No pilot flame within 30 sec  
  • **Note:** after 3 failed ignition sequences, F06 shown | • No gas supply  
  • Air in pilot supply line  
  • No spark  
  • Reversed polarity in thermocouple wiring |
| F06          | F06                | 4 sec               | • 3 failed ignition sequences in 5 minutes  
  • Fire is not responding, no pilot flame | • No gas supply  
  • Air in pilot supply line  
  • No spark  
  • Reversed polarity in thermocouple wiring  
  • Incorrect pilot orifice if valve has been converted from LPG to NG or vice versa |
| F07          | Low battery symbol | Permanent           | • Battery icon flashes on handset display | • Low battery in handset |
| F09          | F09                | 4 sec               | • Fire is not responding  
  • No electronic control of fire | • Down arrow button was not pressed during pairing  
  • Receiver and handset are not synced |
| F46          | F46                | 4 sec               | • Fire is not responding  
  • Intermittent response  
  • No electronic control of fire | • No or bad connection between receiver and handset  
  • No power at receiver (batteries low)  
  • Low communication range (mains adapter faulty, handset not communicating with receiver) |
Appendix C - Wall Switch Operation

Using the Wall Switch
The Wall Switch can be used to control the fireplace. You can turn the pilot on or off and you can increase or decrease the flame height.

Note that the thermostat and programming functions are not available with the wall switch.

Turning Appliance ON and OFF
Press ON-OFF button once to light pilot. Press again to shut off pilot.

Adjusting Flame Height
Press and hold large flame button to gradually increase flame height.

Press and hold small flame button to gradually decrease flame height.
Appendix D - HeatShift

HeatShift™ System

Planning and Installation: LX1 with HeatShift®

For use with 2100K Valor Heaters ONLY

Application
The HeatShift® convection duct kit redistributes the warm air flow away from the fireplace opening to a more desirable location using natural convection without use of a fan.

HeatShift Canopy Kit 2100HSC: the warm air flow is gathered in a canopy hood attached to the fireplace and relocated to an outlet in the same room. The chase does not extend all the way to the ceiling, resulting in a visual space above the fireplace.

Plenums LDK3, LDK4, or LDK9: the warm air flow is relocated to a position higher up the wall, out the sidewalls, or even to an adjacent room.

Termination Plates LDK7: the warm air flow is discharged through a gap (min. 2-1/2”) between the wall above the fireplace and the ceiling. LDK7’s discharge opening must be located in the same room as the fireplace.

The result is much cooler wall temperatures above the fireplace opening for locating televisions, artwork, etc.

Only the HeatShift kits listed below may be used with the LX1.

Kits
There are 5 kits to choose from:

• 2100HSC—HeatShift Canopy kit for LX1
• LDK3—14” Plenums (2), includes grilles
• LDK4—38” Plenum
• LDK7—Duct Termination Plates (2)—for wall valance discharge ONLY
• LDK9—30” plenum

Optional accessories:

• LDK5—38” Finishing Frame, to use with LDK4
• LDK6—5” dia Aluminum 2-ply Flex Kit—2 x 10’-0” lengths, may be cut to required length
• LDK10—30” Finishing Frame, to use with LDK9

⚠️ WARNING
DO NOT cover or place objects in front of or on top of air outlet(s). AVOID locating outlet within 7 feet above floor level as discharge temperatures are hot!

⚠️ WARNING
When placing discharge close to ceilings, staining or streaking may occur on light colored ceilings due to any dust, etc. in air flow; placing plenum(s) lower on the wall will help reduce the possibility of staining or streaking.

⚠️ Note
5-inch diameter duct used with this kit must be metal and meet requirements of UL-181 Class 1 Air Duct. Flexible aluminum duct is acceptable provided it meets the UL-181 Class 1 requirements.
Appendix D - HeatShift

2100HSC Kit Contents

- Top enclosure
- Grille HSC-GR (not included, optional)
- Back plate
- Middle enclosure
- Support frame
- Support brackets (2, identical)
- Wall support bracket
- HeatShift canopy

2100HSC

Takeoff collars not required.

Qty (2) 2x4 cut to planned height required (not included)
Appendix D - HeatShift

LDK Kits Contents

LDK4
38" x 2"

(4) 5" Ø take-off collars included

LDK5 (supplied separately)
38" frame, white

LDK3
2 - 14" x 6"

(4) 5" Ø take-off collars included

LDK7
2 Duct termination plates

(4) 5" Ø take-off collars included

LDK6
2 - 10’ x 5” (aluminum flex)

LDK9
30” x 2"

(4) 5” Ø take-off collars included

LDK10 (supplied separately)
30” frame, white

LDK5 (supplied separately)
38” frame, white

LDK4
38” x 2”

LDK5 (supplied separately)
38” frame, white

LDK6
2 - 10’ x 5” (aluminum flex)

LDK7
2 Duct termination plates

LDK9
30” x 2”

LDK10 (supplied separately)
30” frame, white

LDK5 (supplied separately)
38” frame, white

LDK4
38” x 2”

LDK5 (supplied separately)
38” frame, white

LDK6
2 - 10’ x 5” (aluminum flex)

LDK7
2 Duct termination plates

LDK9
30” x 2”

LDK10 (supplied separately)
30” frame, white

LDK5 (supplied separately)
38” frame, white

LDK4
38” x 2”

LDK5 (supplied separately)
38” frame, white

LDK6
2 - 10’ x 5” (aluminum flex)

LDK7
2 Duct termination plates

LDK9
30” x 2”

LDK10 (supplied separately)
30” frame, white

LDK5 (supplied separately)
38” frame, white

LDK4
38” x 2”

LDK5 (supplied separately)
38” frame, white

LDK6
2 - 10’ x 5” (aluminum flex)

LDK7
2 Duct termination plates

LDK9
30” x 2”

LDK10 (supplied separately)
30” frame, white

LDK5 (supplied separately)
38” frame, white

LDK4
38” x 2”

LDK5 (supplied separately)
38” frame, white

LDK6
2 - 10’ x 5” (aluminum flex)

LDK7
2 Duct termination plates

LDK9
30” x 2”

LDK10 (supplied separately)
30” frame, white

LDK5 (supplied separately)
38” frame, white
Appendix D - HeatShift

Overview - 2100HSC kit

Coaxial vent can run vertically through ceiling

Flexible or rigid 5" Ø, UL-181, Class 1 Air Duct (2). Use LDK 6 kit or equivalent.

Min. 1" clearance to combustibles around pipes.

Cement board or similar non combustible finish

Min 2-1/2" [64 mm] clearance to ceiling

Installer may separate top duct from middle duct to increase overall installation height

Drywall should be installed on adjoining wall before the installation of the HSC kit. Otherwise, wall cavity on adjacent wall needs to be sealed.

Combustible finish allowed below opening, see Installation Manual for details

Min 84-7/16" [2145 mm]

Min 34-7/16" [875 mm]

Min 3-3/4" [96 mm]

Min 2-1/4" [57 mm]

Min 3-3/4" [96 mm]

Min 11-1/16" [287 mm]

Min 11-1/16" [287 mm]

50" [1270 mm]

9-3/4" [248 mm]

17-1/2" [445 mm]

14" [356 mm]

36" [914 mm]

8" [203 mm]

17" [432 mm]

11" [279 mm]

WARNING
The plenum duct kits are approved for horizontal discharge ONLY. The termination duct plates are approved for vertical upward discharge ONLY. DO NOT install plenum or termination plates in floor or ceiling. DO NOT COVER OR PLACE objects in front of or on top of air outlet(s). AVOID locating outlet within 7 feet of the floor level as discharge air temperatures are hot!

DO NOT DISCHARGE THROUGH EXTERIOR WALLS!

Suggested Configurations Not to scale
LX1 Series with LDK Kits

Front or rear wall outlet using LDK4

Note: Coaxial vent must be diverted toward the wall to bypass the HeatShift outlet overhead when vented vertically.

Front or rear wall outlet using LDK9

Front and rear wall outlet using LDK3

Top outlet using LDK7

Note: When using the LDK7, the discharge must be located in the same room as the fireplace. The termination plates may be trimmed to fit.
Appendix D - HeatShift

Overview - LDK3, LDK4, and LDK9 kits

Note:
Venting must be offset around 38" plenum (LDK4)

Flexible or rigid 5" Ø, UL-181, Class 1 Air Duct (4). Use LDK 6 kit or equivalent.

Min. 1" clearance to combustibles around pipes.

Ceiling

Min 2-1/2" clearance to ceiling from top of opening

Min 36° Max 12°
See table for offsets

36-1/2" [923 mm]

36" [914 mm]

34° [864 mm]

33° [838 mm]

32° [813 mm]

31° [789 mm]

30° [764 mm]

37° [940 mm]

36° [914 mm]

36° [914 mm]
Note - Discharge opening must be located in the same room as fireplace when using LDK7.

Min length of opening, front, and sides = 40".

Top of Wall Finish

Min. 30”, Max. 12’ 0”

See table for offsets

Min. 2-1/2” opening required to ceiling from top of wall finish

Min. 1” clearance to combustibles around pipes.

Flexible or rigid 5” Ø, UL-181, Class 1 Air Duct (4). Use LDK 6 kit or equivalent.
## Appendix D - HeatShift

<table>
<thead>
<tr>
<th>Vertical Rise</th>
<th>Max. Allowable Horizontal Offset</th>
</tr>
</thead>
<tbody>
<tr>
<td>30&quot;</td>
<td>24&quot;</td>
</tr>
<tr>
<td>36&quot;</td>
<td>36&quot;</td>
</tr>
<tr>
<td>42&quot;</td>
<td>48&quot;</td>
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<td>48&quot;</td>
<td>60&quot;</td>
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<tr>
<td>54&quot;</td>
<td>72&quot;</td>
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<tr>
<td>60&quot;</td>
<td>84&quot;</td>
</tr>
<tr>
<td>66&quot;</td>
<td>96&quot;</td>
</tr>
<tr>
<td>12'-0&quot;</td>
<td>96&quot; Max.</td>
</tr>
</tbody>
</table>

- Support horizontal sections of pipe using strapping every 24".
- Min. bend radius: 5".
- Min. 2-1/2" clearance to ceiling from top of opening.
- Min. 1" clearance to combustibles around pipes.

### LD3, LD4, or LD9

- Min. bend radius: 5".
- Min. 1" clearance to combustibles around pipes.
- Top of fireplace:
  - Support horizontal sections of pipe using strapping every 24".
  - DO NOT RUN pipe horizontal.

### LDK 7 - Duct Termination Plates

- Min. bend radius: 5".
- Min. 1" clearance to combustibles around pipes.
- Vertical Rise "Y" (Min. 30" Max. 12'-0")
- Top of fireplace:
  - Support horizontal sections of pipe using strapping every 24".
  - DO NOT RUN pipe horizontal.

### Ceiling

- Min. 2-1/2" opening required at ceiling.
- Min. bend radius: 5".
- Vertical Rise "Y" (Min. 30" Max. 12'-0")

### Maximum allowable Horizontal Offset 'X'

(Offset for take-off that's furthest away)
Appendix D - HeatShift

Plenum Dimensions

LDK 4

Top View

Front View

Right Side View

LDK 3

Front View

Right Side View

LDK 9

Top View

Front View

Right Side View
Appendix D - HeatShift

LDK7 Plates Dimensions

Perimeter of plates may be trimmed to suit installation

Stand-offs (fold down for shipping)

Warning Label

Front View

Perimeter of plates may be trimmed to suit installation

Top View

Stand-offs

Right Side View

5" dia. collars (4)

4-1/2"

7"

4-1/2"

19-1/2"

2-1/2"

13-1/2"

9-3/4" 9-3/4"

19-1/2"

16"

9-3/4"

9-3/4"

9-3/4"
Appendix D - HeatShift

Rough Frame Openings

LDK 4 = 39"

5-1/2”

4”

Top of plenum support

Min. 1” below finished ceiling

Use steel stud for LX appliances

LDK 4

LDK 3 = 15”

8”

Min. 1” below finished ceiling

Framing on edge

LDK 3

LDK 9 Minimum 31”

4”

Framing on edge

Min. 1” below finished ceiling

Use steel stud for LX appliances

LDK 9
Appendix D - HeatShift

Framing and Clearances

Use steel stud for LX1 appliances

Rough Frame Opening
LDK 4 = 49"
LDK 3 = 8"
LDK 9 = 4"

2 x 4 steel stud

See Installation Manual packed with appliance for minimum combustible cavity dimensions
Note - Min. cavity dimensions may be dictated by LDK plenum when installing across corners.

Min. 1/2" clearance to combustibles at ends

See detail

LX1 models venting may require a vent offset to clear the plenum.
Appendix D - HeatShift

Framing and Clearances

LDK3

LDK9

Non-combustible plumber’s strap (or similar)

Strap to rear wall or stud

1” min. clearance to combustibles all around pipes

Min. 2-1/2” clearance to ceiling

1-1/2” min. clearance to combustibles (top)

1/2” min. clearance to combustibles rear & side

2” min. clearance to combustibles (use steel stud for LX1 appliances)

1/2” min. clearance to combustibles rear & sides

1” min. clearance to combustibles all around pipes

2” min. clearance to combustibles (use steel stud for LX1 appliances)

Framing “on edge”

Ceiling

1/2” 

5”

Min. 2-1/2” clearance to ceiling

1-1/2” min. clearance to combustibles (top)

1/2” min. clearance to combustibles rear & side

2” min. clearance to combustibles (use steel stud for LX1 appliances)

1/2” min. clearance to combustibles rear & sides

1” min. clearance to combustibles all around pipes

2” min. clearance to combustibles (use steel stud for LX1 appliances)

Framing “on edge”

Ceiling

1/2” 

5”

Min. 2-1/2” clearance to ceiling

1-1/2” min. clearance to combustibles (top)

1/2” min. clearance to combustibles rear & side

2” min. clearance to combustibles (use steel stud for LX1 appliances)

1/2” min. clearance to combustibles rear & sides

1” min. clearance to combustibles all around pipes

2” min. clearance to combustibles (use steel stud for LX1 appliances)

Framing “on edge”

Ceiling

1/2” 

5”

Min. 2-1/2” clearance to ceiling

1-1/2” min. clearance to combustibles (top)

1/2” min. clearance to combustibles rear & side

2” min. clearance to combustibles (use steel stud for LX1 appliances)

1/2” min. clearance to combustibles rear & sides

1” min. clearance to combustibles all around pipes

2” min. clearance to combustibles (use steel stud for LX1 appliances)

Framing “on edge”

Ceiling

1/2” 

5”

Min. 2-1/2” clearance to ceiling

1-1/2” min. clearance to combustibles (top)

1/2” min. clearance to combustibles rear & side

2” min. clearance to combustibles (use steel stud for LX1 appliances)

1/2” min. clearance to combustibles rear & sides

1” min. clearance to combustibles all around pipes

2” min. clearance to combustibles (use steel stud for LX1 appliances)

Framing “on edge”

Ceiling

1/2” 

5”
Appendix D - HeatShift

Wall Valance Discharge Opening using LDK7—Duct Termination Plates

- Minimum length of opening, front and sides: LX1 - 2100 = 40”
- Continuous ceiling required within cavity
- Plate stand-off
- Ceiling
- See clearances to combustibles next page
- 2-1/2” min.
- 14” min.
- Wall finish required to form plenum above duct termination plates
- Non-combustible cement board
- 2 x 4 on edge to support plates as necessary - maintain 1” clearance to pipes
- Min. 1” clearance around pipes
- Combustible wall construction
- Top of stand-offs
- See installation manual packed with appliance for minimum combustible clearance dimensions
- Note: Staining or streaking may occur on light colored ceilings due to any dust, etc. in air flow. Maximizing the opening size will help reduce any staining or streaking.

LDK 7 - Duct Termination Plates (2) for horizontal installation ONLY!
Appendix D - HeatShift

LDK7 Clearances to Combustibles

Perimeter of plates may be trimmed to suit installation

Stand-off

Non-combustible zone above plates

Combustible framing allowed below plates

5" dia. pipes - maintain 1" clearance to combustible materials

Front View

Right Side View
Appendix D - HeatShift

Install Plenum Kits (LDK3, LDK4, LDK9)

1. Install all four collars onto the top of the appliance (6 screws each).

2. Frame a rough opening at the desired location—see earlier sections of this manual for allowable plenum positions and rough frame opening sizes.

3. Install top mounting bracket(s) to the plenum using screws provided (use the short sheet metal screws provided otherwise the screw tails (ends) will interfere with the finishing frame when installed).

4. Install the plenum(s) into the rough frame opening maintaining minimum clearances to combustibles as previously listed. Fix the plenum to the framing using nails or screws through the top mounting bracket. Note that the mounting brackets are not intended to carry the weight of the plenum and pipes. Provide support to the underside of the plenum and ensure the plenum is level and its outlet is not distorted. Use metal strapping (all-round, not supplied) as required to further secure the plenum to framing.

5. Attach one section of UL-181, Class 1 approved air duct to each of the collars and secure it with gear clamps provided. DO NOT SPLICE DUCTS!

6. Attach the top of the pipe sections to the plenum securing them with the gear clamps provided. An upward slope must be maintained in horizontal sections of pipes for proper convection. Use straps as necessary to maintain the pipes positions. Support horizontal sections every 24 inches.

7. Paint the inside surfaces of the plenum using high-temperature flat black spray paint for installations where the inside of the plenums may be visible. Note: The flanges of the white finishing frame (when used) will insert approximately 1-1/4” into the plenum covering the shiny sheet metal.

8. Install the finishing frame or louver to the plenum after the wall finish is completed:
   - LDK4: Use the LDK5.
   - LDK9: Use the LDK10.
   - LDK3: Use the grilles provided with the kit.

   Note: The frame/louver are finished white but may be painted another color if desired; use high temperature paint (250°F). You may also finish up to the perimeter of the plenum opening with your material of choice and not use the frame or louver. Do not finish over any of the opening in the plenum outlet.

9. Continue with the fireplace installation.
Appendix D - HeatShift

WARNING

All FOUR (4) takeoffs MUST BE CONNECTED TO PLENUM(S).

Install Duct Termination Plates (LKD7)

1. Install all four collars onto the top of the appliance (6 screws each).

2. Frame a rough opening and platform at the desired location—see earlier sections of this manual for allowable duct termination plates positions and rough frame opening sizes.

3. On each duct termination plate, rotate both stand-offs to the vertical position and secure in place using screws provided.

4. Install the termination plates into the framing ensuring collars/pipes on underside of plates maintain 1 inch clearance to combustibles and clearance to combustible above the plates are maintained as listed on page 13. The termination plates perimeter may be trimmed as necessary to accommodate framing. Secure the termination plate to framing using screws or nails to avoid movement.

5. Attach one section of UL-181, Class 1 approved air duct to each of the collars and secure it with gear clamps provided. DO NOT SPLICE DUCTS!

6. Attach the top of the pipe sections to the duct termination plates securing them with the gear clamps provided. An upward slope must be maintained in horizontal sections of pipes for proper convection. Use straps as necessary to maintain the pipes positions. Support horizontal sections every 24 inches.

7. Continue with the fireplace installation.

Repair Parts List

<table>
<thead>
<tr>
<th>Description</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2100HSC 2100 HeatShift Canopy Kit</td>
<td>4007699</td>
</tr>
<tr>
<td>Canopy with collars</td>
<td>4007689</td>
</tr>
<tr>
<td>Drywall frame support</td>
<td>4007690</td>
</tr>
<tr>
<td>Support brackets (2)</td>
<td>4007691</td>
</tr>
<tr>
<td>Middle duct</td>
<td>4007695</td>
</tr>
<tr>
<td>Back cover plate</td>
<td>4007698</td>
</tr>
<tr>
<td>Top duct with collars</td>
<td>4004560</td>
</tr>
<tr>
<td>#8 x 1/2&quot; S/T screws (29)</td>
<td>100A757</td>
</tr>
<tr>
<td>LDK3 14&quot; Double Hot Air Plenums Kit</td>
<td>4005464</td>
</tr>
<tr>
<td>14&quot; x 6&quot; double plenums (2)</td>
<td>4005478</td>
</tr>
<tr>
<td>5&quot; take-off collars (4)</td>
<td>4005479</td>
</tr>
<tr>
<td>DABL-00-C-SPL 14&quot; x 6&quot; Grilles white (2)</td>
<td>4005614</td>
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<tr>
<td>Top mounting bracket/standoffs (2)</td>
<td>4005566</td>
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<tr>
<td>#8 slotted drive screws 1/4&quot; (6)</td>
<td>798601</td>
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<tr>
<td>LDK4 38&quot; Quad Hot Air Plenum Kit</td>
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<tr>
<td>38&quot; x 2&quot; quad plenum</td>
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<tr>
<td>5&quot; take-off collars (4)</td>
<td>4005479</td>
</tr>
<tr>
<td>Top mounting bracket/standoffs</td>
<td>4005566</td>
</tr>
<tr>
<td>#8 slotted drive screws 1/4&quot; (7)</td>
<td>798601</td>
</tr>
<tr>
<td>LDK5 38&quot; Outlet Frame Kit for LDK4</td>
<td>4005613</td>
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<tr>
<td>Aux Frame-SPL 38&quot; x 2&quot; white</td>
<td>4005635</td>
</tr>
<tr>
<td>5&quot; dia 10' (uncompressed) aluminum chimney liners (2)</td>
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<tr>
<td>4.5&quot; - 6.5&quot; ss gear clamps (8)</td>
<td>4005642</td>
</tr>
<tr>
<td>LDK7 Duct Termination Plates</td>
<td>4006747</td>
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<tr>
<td>Plate and collar assembly (2)</td>
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</tr>
<tr>
<td>5&quot; take-off collars (4)</td>
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<tr>
<td>Screws 8 x 3/8 tap PN HD PH (12)</td>
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<tr>
<td>LDK9 30&quot; Quad Hot Air Plenum Kit</td>
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<tr>
<td>30&quot; x 2&quot; quad plenum</td>
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<tr>
<td>5&quot; take-off collars (4)</td>
<td>4007905</td>
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<tr>
<td>Top mounting bracket/standoff</td>
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</tr>
<tr>
<td>#8 slotted drive screws 1/4&quot; (5)</td>
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</tr>
<tr>
<td>LDK10 30&quot; Outlet Frame Kit for LDK9</td>
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</tr>
<tr>
<td>Aux Frame-SPL 30&quot; x 2&quot; white</td>
<td>4007951</td>
</tr>
</tbody>
</table>

Each kit is sold separately.
## Appendix E - Spare Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Barrier screen front/rear (2)</td>
<td>4006979</td>
</tr>
<tr>
<td>2 Barrier screen end</td>
<td>4006865</td>
</tr>
<tr>
<td>3 Window assembly front/rear (2)</td>
<td>4006727</td>
</tr>
<tr>
<td>4 Window assembly end</td>
<td>4006469</td>
</tr>
<tr>
<td>5 Front window retainer assembly (4)</td>
<td>4007297</td>
</tr>
<tr>
<td>6 Window seal silicone (4)</td>
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</tr>
<tr>
<td>7 End window clamp</td>
<td>4006714</td>
</tr>
<tr>
<td>8 Bottom plate assembly left</td>
<td>4006970</td>
</tr>
<tr>
<td>9 Bottom plate assembly right</td>
<td>4006973</td>
</tr>
<tr>
<td>10 Upper plate assembly left</td>
<td>4006976</td>
</tr>
<tr>
<td>11 Upper plate assembly right</td>
<td>4006978</td>
</tr>
<tr>
<td>12 Vertical plate assembly left</td>
<td>4006962</td>
</tr>
<tr>
<td>13 Vertical plate assembly right</td>
<td>4006965</td>
</tr>
<tr>
<td>14 Media tray left</td>
<td>4006604AH</td>
</tr>
<tr>
<td>15 Media tray right</td>
<td>4006603AH</td>
</tr>
<tr>
<td>16 Wire cover</td>
<td>4006845AH</td>
</tr>
<tr>
<td>17 Electrical passage gasket</td>
<td>4006274</td>
</tr>
<tr>
<td>18 Burner assembly</td>
<td>4006731AH</td>
</tr>
<tr>
<td>19 Exhaust restrictor</td>
<td>4006467</td>
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<tr>
<td>20 Rope gasket (2)</td>
<td>4007433</td>
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<tr>
<td>21 Light rail left</td>
<td>4006609AH</td>
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<tr>
<td>22 Light rail right</td>
<td>4006610AH</td>
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<tr>
<td>23 Bi-pin halogen bulb GY.635 20 W (4)</td>
<td>4005700</td>
</tr>
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<td>24 Hot glass warning plate</td>
<td>4003093</td>
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<tr>
<td>25 Pilot cover</td>
<td>4005940AH</td>
</tr>
<tr>
<td>26 Window handle tool</td>
<td>4006269BY</td>
</tr>
<tr>
<td>27 Liner retaining clip (lower)</td>
<td>4007588AH</td>
</tr>
<tr>
<td>28 Burner module assy - natural gas</td>
<td>4006843</td>
</tr>
<tr>
<td>Burner module assy - propane gas</td>
<td>4006844</td>
</tr>
<tr>
<td>29 Pilot assembly - natural gas</td>
<td>4006738</td>
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<tr>
<td>Pilot assembly - propane gas</td>
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<tr>
<td>30 Thermocouple</td>
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<tr>
<td>31 Pilot injector #51 - natural gas</td>
<td>4000727</td>
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<tr>
<td>Pilot injector #30 - propane gas</td>
<td>4000728</td>
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<td>32 Pilot tube</td>
<td>4000732</td>
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<tr>
<td>33 Pilot hood 2-flame</td>
<td>7000730</td>
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<tr>
<td>34 Extended nut</td>
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<td>35 Electrode</td>
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<tr>
<td>36 Gas orifice DMS #42 - natural gas</td>
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<tr>
<td>Gas orifice DMS #53 - propane</td>
<td>4007000-53</td>
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<td>37 Pilot gaskets (2)</td>
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<td>38 Pilot stand</td>
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<td>39 Air shutter</td>
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<td>40 Pivot bracket</td>
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<tr>
<td>41 Module tray gasket - long (2)</td>
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<tr>
<td>42 Module tray gasket - short (2)</td>
<td>4006257</td>
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<tr>
<td>43 Block/pipe connector</td>
<td>4006689</td>
</tr>
<tr>
<td>44 Gas supply line</td>
<td>4006688</td>
</tr>
<tr>
<td>45 3/8” Flex line (10” length) c/w flare to flare fittings</td>
<td>4000345</td>
</tr>
<tr>
<td>46 GV60 Gas valve assy - natural gas</td>
<td>4007206X</td>
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<tr>
<td>GV60 Gas valve assy - propane gas</td>
<td>4007207X</td>
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<tr>
<td>47 Thermocurrent interruptor</td>
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<tr>
<td>48 Connector 3/8NPT x 5/16 flare</td>
<td>220K891</td>
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<tr>
<td>49 V-Module</td>
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<tr>
<td>50 Receiver Valor 10 Two Way</td>
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<tr>
<td>51 Wire harness GV60</td>
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<tr>
<td>52 Yellow cable to interruptor</td>
<td>4002096</td>
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<tr>
<td>53 Red cable to interruptor</td>
<td>4001035</td>
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<tr>
<td>54 Ignition cable sleeve 530 mm</td>
<td>4002244</td>
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<tr>
<td>55 Ignition cable 500 mm</td>
<td>4001039</td>
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<tr>
<td>56 Valve mounting bracket</td>
<td>4006102</td>
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<tr>
<td>57 Remote Battery and Wall Switch Kit</td>
<td>RBWSKX</td>
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<tr>
<td>58 Junction box</td>
<td>4005527</td>
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<tr>
<td>59 Cover plate and 4 screws</td>
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<tr>
<td>60 Battery holder</td>
<td>4005525</td>
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<td>61 Cable tie</td>
<td>4005524</td>
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<td>62 Wire harness assembly 10.6 m</td>
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<tr>
<td>63 Plate with magnets</td>
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<tr>
<td>64 Long screws (4)</td>
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<td>65 Touch control wall switch &amp; 2 screws</td>
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<td>66 Battery cover assembly</td>
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<td>67 Valor 10 handset wall holder</td>
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<td>68 Valor 10 handset black</td>
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<tr>
<td>69 GV60 valve repair kit (not included)</td>
<td>4004544</td>
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</tbody>
</table>
## Appendix E - Spare Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
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</thead>
<tbody>
<tr>
<td>70 Reflective glass panel liner</td>
<td>2100RGP</td>
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<tr>
<td>71 Limestone liner</td>
<td>2200LMP</td>
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<tr>
<td>72 Decorative glass Murano set</td>
<td>2100DGM</td>
</tr>
<tr>
<td>73 Murano glass rear</td>
<td>4006858</td>
</tr>
<tr>
<td>74 Murano glass front</td>
<td>4006857</td>
</tr>
<tr>
<td>75 Bag of 1/4&quot; ceramic pads (8 per bag)</td>
<td>4006367</td>
</tr>
<tr>
<td>76 1/2&quot; clear fireglass (1.6 kg bag)</td>
<td>4004521</td>
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<tr>
<td>77 Birchwood log kit</td>
<td>2100BLK</td>
</tr>
<tr>
<td>78 Birch log L4</td>
<td>4007374</td>
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<td>79 Birch log L3</td>
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<td>80 Birch log L6</td>
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<td>85 Ceramic log support (2)</td>
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<td>86 Bag of mixed embers</td>
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<td>87 Bag of splinters</td>
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<td>94 Bag of vermiculite (5.5 cups)</td>
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<td>95 Brown beach pebble</td>
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<td>96 Grey beach pebble</td>
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<tr>
<td>97 White beach pebble</td>
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<td>98 Black beach pebble</td>
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<tr>
<td>99 Small grey beach pebble</td>
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<td>100 Beige beach pebble (2)</td>
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<td>101 Rock and shale kit</td>
<td>2100RSS</td>
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<td>102 Bag of grey/black shale (1 lb)</td>
<td>4004792</td>
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<td>103 RH twig (long, 2)</td>
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<td>104 LH twig (short, 2)</td>
<td>4001827S</td>
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<td>105 Grey rock S4-A (6)</td>
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<td>106 Dark grey rock S4-A (4)</td>
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</tr>
<tr>
<td>109 9 grey 5 matte rock (2)</td>
<td>4002652</td>
</tr>
<tr>
<td>110 11 grey 3 matte rock (2)</td>
<td>4002654</td>
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Appendix E - Spare Parts