

Installation Manual

Installation and Appliance Setup

INSTALLER: Leave this manual with party responsible for use and operation.
OWNER: Retain this manual for future reference.

NOTICE: DO NOT discard this manual!

HEAT & GLO

No one builds a better fire

Models:

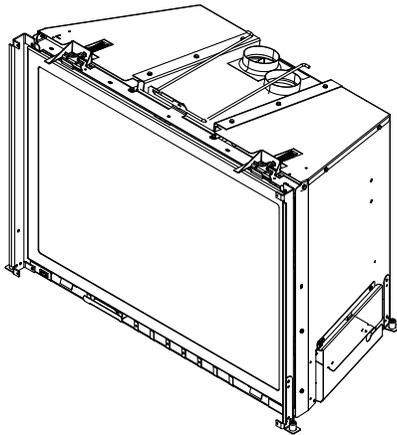
ESCAPE-I35-F

ESCAPE-I35LP-F

ESCAPE-I30-F

ESCAPE-I30LP-F

GAS-FIRED



This appliance may be installed as an OEM installation in manufactured home (USA only) or mobile home and must be installed in accordance with the manufacturer's instructions and the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280* in the United States, or the *Standard for Installation in Mobile Homes, CAN/CSA Z240 MH Series*, in Canada.

This appliance is only for use with the type(s) of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter.

See Table of Contents for location of additional Commonwealth of Massachusetts requirements.

⚠ WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury, or death.

- **DO NOT** store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **What to do if you smell gas**
 - **DO NOT** try to light any appliance.
 - **DO NOT** touch any electrical switch. **DO NOT** use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

⚠ WARNING



**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 shall be installed.

▲ Safety Alert Key:

- **DANGER!** Indicates a hazardous situation which, if not avoided will result in death or serious injury.
- **WARNING!** Indicates a hazardous situation which, if not avoided could result in death or serious injury.
- **CAUTION!** Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **NOTICE:** Used to address practices not related to personal injury.

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→ = Contains updated information.

1 Product Specific and Important Safety Information

A. Appliance Certification

MODELS: ESCAPE-I30-F ESCAPE-I30LP-F,
ESCAPE-I35-F, ESCAPE-I35LP-F

LABORATORY: Underwriters Laboratories, Inc. (UL)

TYPE: Direct Vent Heater

STANDARD: ANSI Z21.88-2009 • CSA 2.33-2009

This product is listed to ANSI standards for “Vented Gas Fireplace Heaters” and applicable sections of “Gas Burning Heating Appliances for Manufactured Homes and Recreational Vehicles”, and “Gas Fired Appliances for Use at High Altitudes”.

Heat & Glo gas inserts are designed for installations into solid fuel masonry or factory built fireplaces that have been installed in accordance with the National, Provincial, State and local building codes. Fireplaces are to be constructed of non-combustible materials and, in the absence of local or regional codes, meet criteria of NFPA 211. No additional outside air source is required.

NOTICE: *This installation must conform with local codes. In the absence of local codes you must comply with the National Fuel Gas Code, ANSI Z223.1-latest edition in the U.S.A. and the CAN/CGA B149 Installation Codes in Canada.*

NOT INTENDED FOR USE AS A PRIMARY HEAT SOURCE.
This appliance is tested and approved as either supplemental room heat or as a decorative appliance. It should not be factored as primary heat in residential heating calculations.

B. Glass Specifications

This appliance is equipped with 5 mm ceramic glass. Replace glass only with 5 mm ceramic glass. Please contact your dealer for replacement glass.

C. BTU Specifications

Models (U.S. or Canada)	Maximum Input BTU/h	Minimum Input BTU/h	Orifice Size (DMS)	
ESCAPE-I30-F (NG)	US (0-2000 FT)	36,000	17,000	33
	CANADA (2000-4500 FT)	33,250	16,750	34
ESCAPE-I30LP-F (LP)	US (0-2000 FT)	36,000	19,000	50
	CANADA (2000-4500 FT)	31,000	15,500	51
Escape-I35-F (NG)	US (0-2000 FT)	40,000	20,000	31
	CANADA (2000-4500 FT)	37,000	19,250	32
ESCAPE-I35LP-F (LP)	US (0-2000 FT)	38,000	19,000	49
	CANADA (2000-4500 FT)	35,000	17,000	50

D. High Altitude Installations

NOTICE: *If the heating value of the gas has been reduced, these rules do not apply. Check with your local gas utility or authorities having jurisdiction.*

When installing above 2000 feet elevation:

- In the USA: Reduce input rate 4% for each 1000 feet above 2000 feet.
- In CANADA: Reduce input rate 10% for elevations between 2000 feet and 4500 feet. Above 4500 feet, consult local gas utility.

Check with your local gas utility to determine proper orifice size.

E. Non-Combustible Materials Specification

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.

F. Combustible Materials Specification

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.

G. Electrical Codes

NOTICE: *This appliance must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with National Electric Code ANSI/NFPA 70-latest edition or the Canadian Electric Code CSA C22.1.*

- A 110-120 VAC circuit for this product must be protected with ground-fault circuit-interrupter protection, in compliance with the applicable electrical codes, when it is installed in locations such as in bathrooms or near sinks.

2 Getting Started

A. Design and Installation Considerations

Heat & Glo gas inserts are designed for installations into solid fuel masonry or factory built fireplaces that have been installed in accordance with the National, Provincial, State and local building codes. Fireplaces are to be constructed of non-combustible materials and, in the absence of local or regional codes, meet criteria of NFPA 211. No additional outside air source is required.

Installation MUST comply with local, regional, state and national codes and regulations. Consult insurance carrier, local building inspector, fire officials or authorities having jurisdiction over restrictions, installation inspection and permits.

Prior to installing the gas insert:

- Have the chimney and adjacent structure inspected and cleaned by qualified professionals. Hearth & Home Technologies recommends that NFI or CSIA certified professionals, or technicians under the direction of certified professionals, conduct a minimum of a NFPA 211 Level 2 inspection of the chimney.
- Replace component parts of the chimney and fireplace as specified by the professionals.
- Ensure combustible mantel and surround clearances comply with applicable codes and regulations for solid-fuel fireplaces. In the absence of local or regional codes, refer to NFPA 211.
- Ensure all joints are properly engaged and the chimney is properly secured.
- Minimum fireplace size. See Section 4.A.
- Gas supply piping requirements.
- Electrical wiring requirements.
- Finishing details.
- Whether optional accessories—devices such as a wall switch or remote control—are desired.



Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies suggests NFI certified or factory trained professionals, or technicians supervised by an NFI certified professional (www.nficertified.org).

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. For assistance or additional information, consult a qualified service technician, service agency or your dealer.

B. Tools and Supplies Needed

Before beginning the installation be sure that the following tools and building supplies are available.

Tape measure	Pliers
Hammer	Phillips screwdriver
Voltmeter	Electric drill and bits (1/4 in.)
Gloves	Safety glasses
Level	Reciprocating saw
Manometer	Flat blade screwdriver
Noncorrosive leak check solution	

1/2 - 3/4 inch length, #6 or #8 Self-drilling screws

Caulking material (300°F minimum continuous exposure rating)

C. Inspect Appliance and Components

- Carefully remove the appliance and components from the packaging.
- The vent system components and decorative doors and fronts may be shipped in separate packages.
- If packaged separately, the log set and appliance grate must be installed.
- Report to your dealer any parts damaged in shipment, particularly the condition of the glass.
- **Read all of the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit.**

WARNING! Risk of Fire or Explosion! Damaged parts could impair safe operation. DO NOT install damaged, incomplete or substitute components. Keep appliance dry.

Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged appliance or vent system component.
- Modification of the appliance or vent system.
- Installation other than as instructed by Hearth & Home Technologies.
- Improper positioning of the gas logs or the glass door.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.

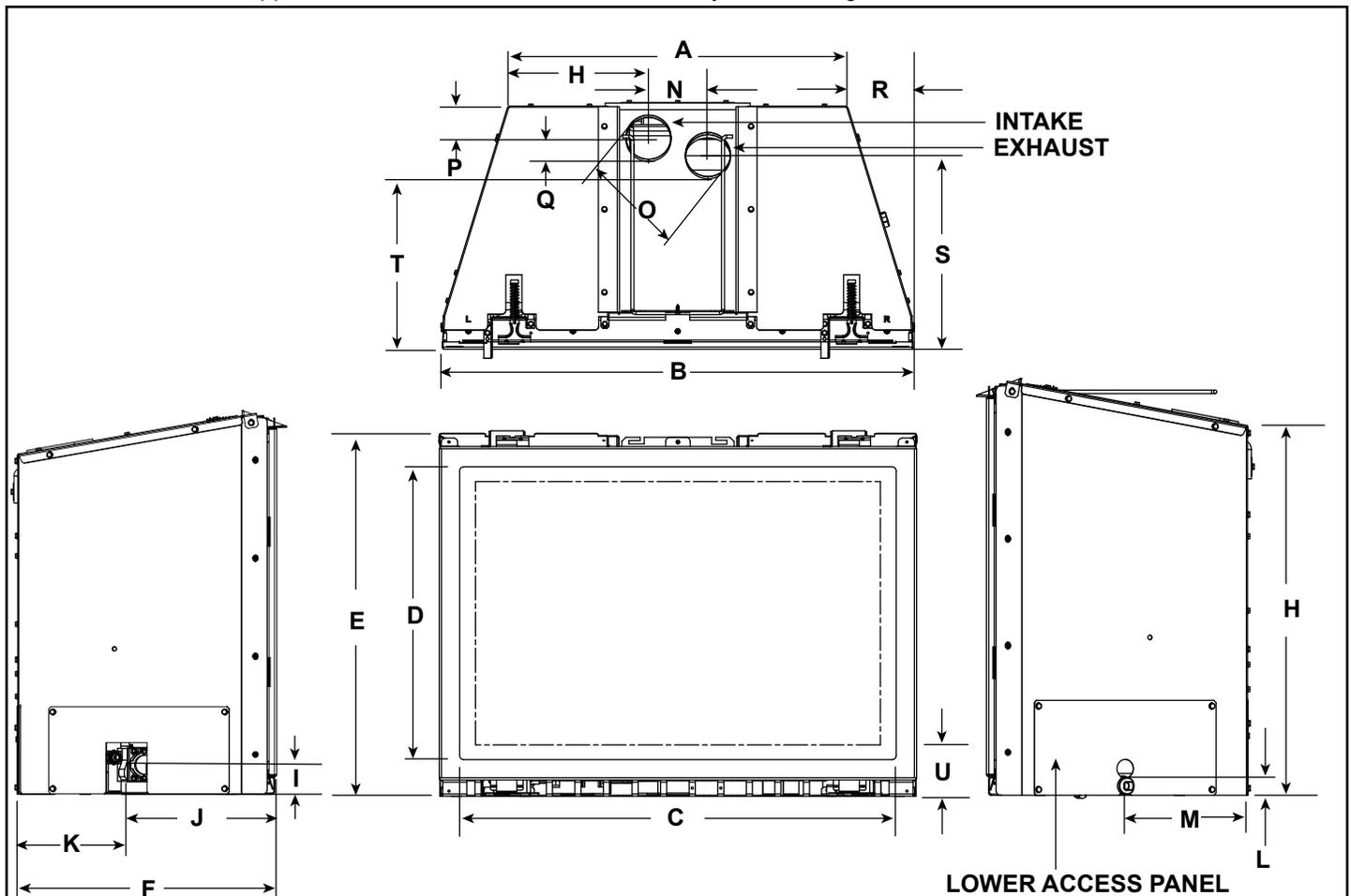
Any such action may cause a fire hazard.

WARNING! Risk of Fire, Explosion or Electric Shock! DO NOT use this appliance if any part has been under water. Call a qualified service technician to inspect the appliance and to replace any part of the control system and/or gas control which has been under water.

3 Framing and Clearances

A. Appliance Dimension Diagram

Dimensions are actual appliance dimensions. Use for reference only. For framing dimensions and clearances refer to Section 4.



MODEL DIMENSIONS				
Location	Escape-I35-F ESCAPE-I35LP-F		ESCAPE-I30-F ESCAPE-I30LP-F	
	Inches	Millimeters	Inches	Millimeters
A	25-1/4	641	21-1/4	552
B	34-3/4	882	30	762
C	31-1/2	800	26-3/4	679
D	20	508	18	457
E	24-5/8	626	22-9/16	573
F	17	432	15-5/8	397
G	10-11/16	271	8-11/16	221
H	21-11/16	551	19-15/16	506
I	1-9/16	40	1-9/16	40
J	8-3/4	222	8-3/4	222

MODEL DIMENSIONS				
Location	Escape-I35-F ESCAPE-I35LP-F		ESCAPE-I30-F ESCAPE-I30LP-F	
	Inches	Millimeters	Inches	Millimeters
K	7-13/16	183	6-3/8	162
L	1-7/16	37	1-7/16	37
M	8-1/2	216	7-1/8	181
N	3-11/16	94	3-11/16	94
O	6-3/8	162	6-3/16	157
P	1-13/16	46	1-15/16	49
Q	1-3/8	35	1-1/16	28
R	4-1/2	114	4-3/16	106
S	13-3/8	340	12-1/8	308
T	12	305	10-3/4	273
U	2-3/8	59	2-1/4	57

Figure 3.1 Appliance Dimensions

4 Fireplace Size Requirements

A. Minimum Fireplace Opening

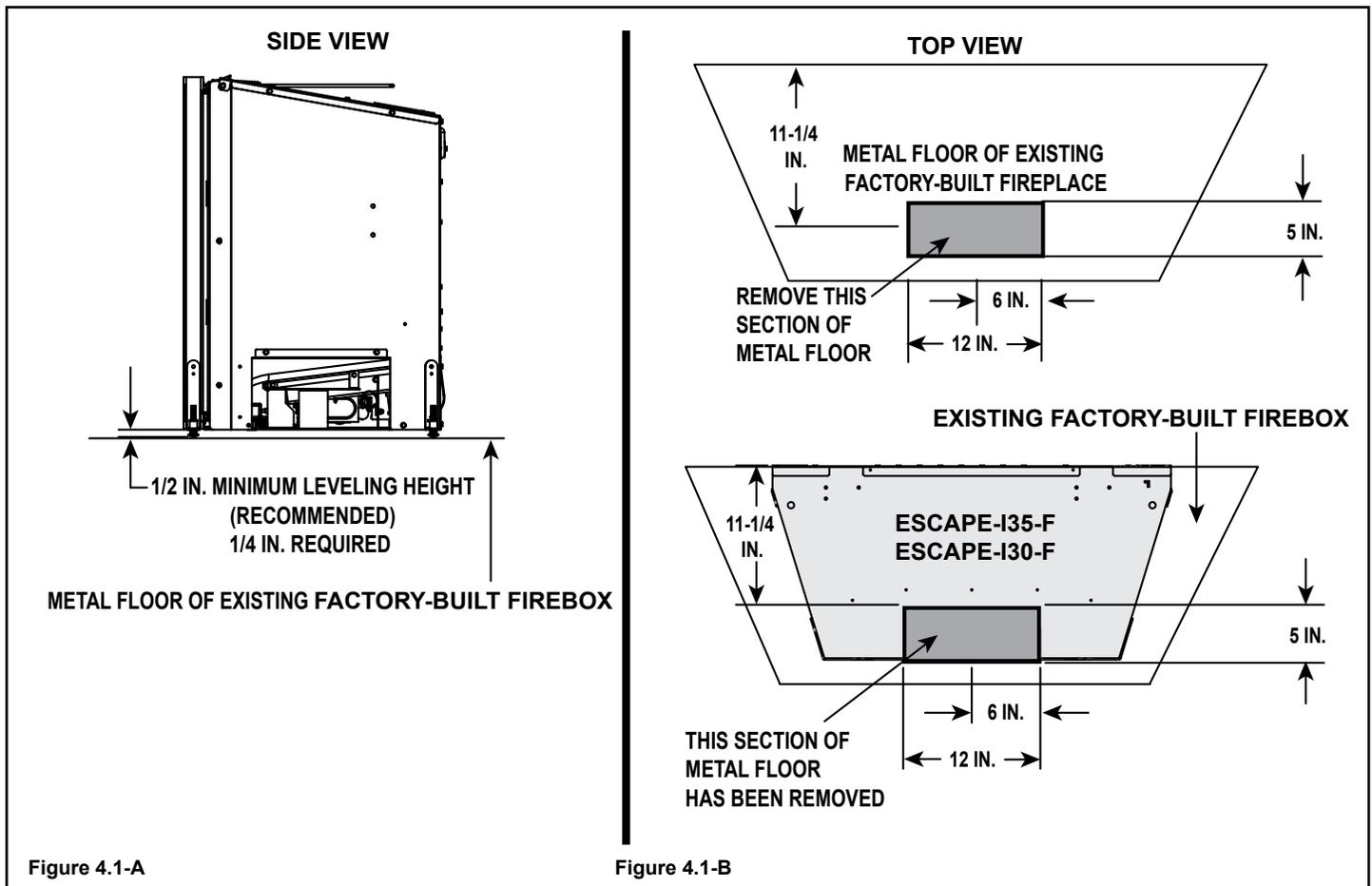
Minimum fireplace opening requirements are shown in Figure 4.2.

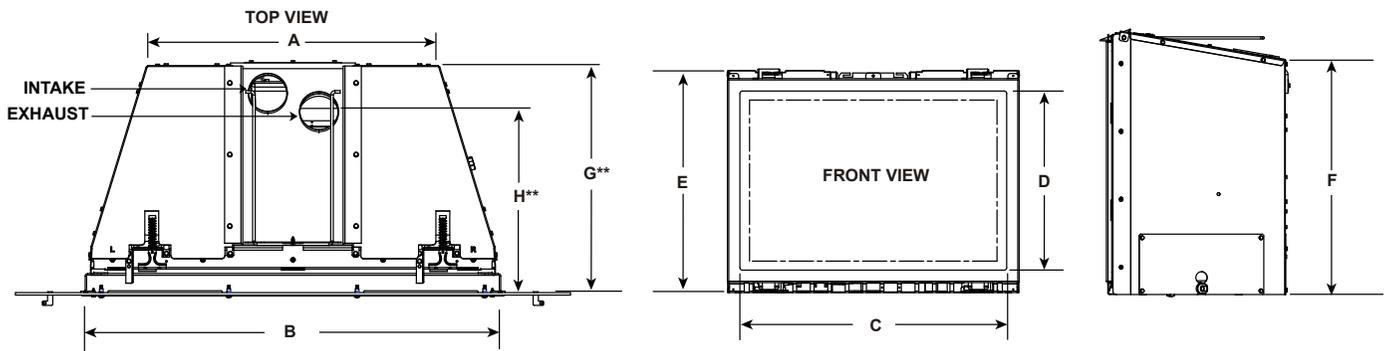
WARNING! Risk of Fire or Burns! Provide adequate clearance around air openings and for service access. Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

- The firebrick (refractory), glass doors, screen rails, screen mesh and log grates can be removed from a factory built firebox in order to gain minimum gas insert opening requirements.
- Any smoke shelves, shields and baffles may be removed from the factory built firebox if attached with mechanical fasteners.
- The appliance may not be placed directly on the base of the outer wrap, a 1/4 inch airspace **MUST** be provided between the insert and the floor of the outer wrap. Use the levelling legs to raise the insert a minimum of 1/4 inch. The original fireplace may never be returned to solid fuel in this condition. The sidewalls and top structure of the firebox may not be altered with the exception of removable baffles and dampers.

- The metal floor of the factory-built fireplace may be removed to facilitate the installation of the insert.
- Cutting of any sheet metal parts of the fireplace in which the gas fireplace insert is to be installed is prohibited, except the floor as tested for and as noted above and in Figure 4.1.
- A minimum 1/2 inch gap from the bottom of the appliance to the metal floor of the factory-built firebox is **RECOMMENDED** for optimal fan performance. See side view in Figure 4.1.
- If the recommended 1/2 inch leveling leg height can not be achieved, a section of the factory-built metal floor may be removed. See Figure 4.1-B.

Note: The metal warning plate, noting that the factory-built fireplace has been converted for use with a gas fireplace insert, must be affixed to the appliance. It is included in the manual bag assembly.





MINIMUM FIREPLACE SIZE					
Location		ESCAPE-I35-F ESCAPE-I35LP-F		ESCAPE-I30-F ESCAPE-I30LP-F	
		Inches	Millimeters	Inches	Millimeters
A	Rear Width	25-1/2	648	21-1/2	546
B	Front Width	35	889	30-1/4	768
C	Glass Opening Width	31-1/2	800	26-3/4	679
D	Glass Opening Height	20	508	18	457
E	Height-Front	24-7/8	632	22-7/8	581
F	Height-Rear	22-1/4	565	20-5/8	524
G**	Unit Depth	18-1/4	464	16-7/8	429
H**	Venting Depth	13-3/8	340	12-1/8	308

* Note: If exhaust collar on insert and fireplace damper do not line up, add 4 inches (102 mm) to minimum fireplace height for bends in vent pipe.

**Unit depth is measured to the back of the surround to give the depth needed for installation.

In addition to these dimensions, also reference Mantel and Wall Projections (Section 10.A).

Figure 4.2 Fireplace Opening

5 Termination Location and Vent Information

A. Vent Termination Minimum Clearances

 **WARNING**

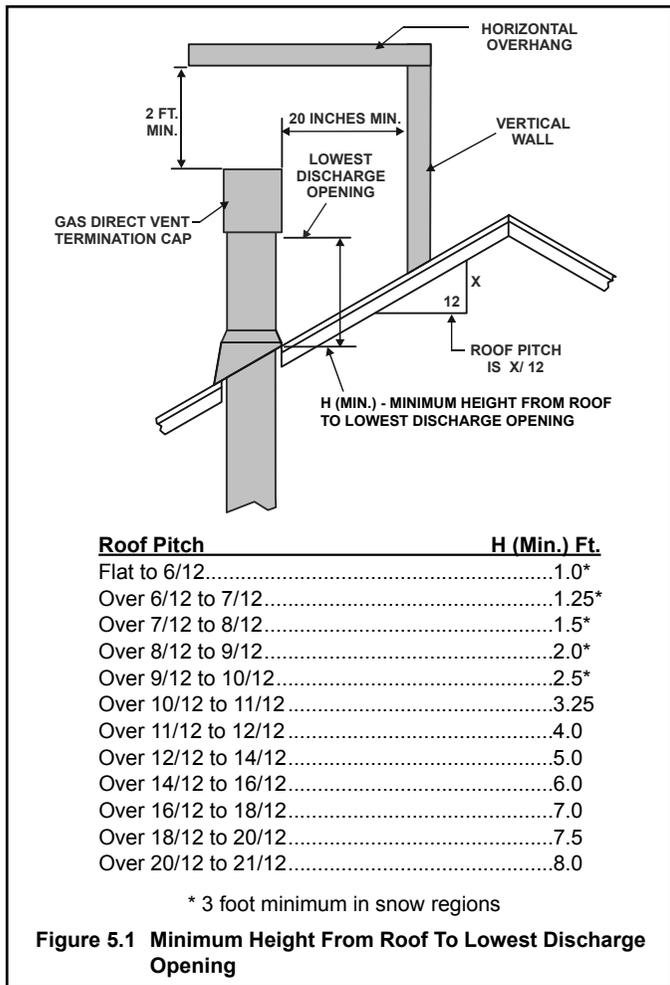


Fire Risk.

Maintain vent clearance to combustibles as specified.

- **DO NOT** pack air space with insulation or other materials.

Failure to keep insulation or other materials away from vent pipe may cause overheating and fire.



6 Installation Preparation

Prepare the existing solid fuel masonry or factory built non-combustible firebox for installation.

A. Inspection and Cleaning

Prior to installing the gas insert:

- Have the chimney and adjacent structure inspected and cleaned by qualified professionals. Hearth & Home Technologies recommends that NFI or CSIA certified professionals, or technicians under the direction of certified professionals, conduct a minimum of a NFPA 211 Level 2 inspection of the chimney.
- Replace component parts of the chimney and fireplace as specified by the professionals.
- Ensure all joints are properly engaged and the chimney is properly secured.
- Ensure combustible mantel and surround clearances comply with applicable codes and regulations for solid-fuel fireplaces. In the absence of local or regional codes, refer to NFPA 211.
- Ensure chimney is constructed of non-combustible materials.
- Ensure chimney is clean and in good working order.
- Ensure that all chimney cleanouts fit properly to prevent air leakage into chimney.

B. Flue Damper

Fully lock the solid fuel fireplace's flue damper in the open position, OR completely remove it.

C. Gas Line

Note: If the factory built fireplace has no gas access hole provided, an access hole of 1 inch (25 mm) diameter or less may be drilled through the lower sides or bottom of the firebox in a proper workmanship - like manner. This access hole must be plugged with non-combustible insulation after the gas supply line has been installed.

- Install gas line into firebox cavity.
- Check local codes and gas line sizing requirements following NFPA51. See Section 9.

D. Fireplace Conversion Notice

Permanently attach the label with the following warning to the inside lower back of the fireplace firebox into which the insert is being installed. Silicone or mechanical fasteners may be required to properly secure the label.

WARNING! Risk of Fire! *This fireplace has been converted for use with a gas fireplace insert only and cannot be used for burning wood or solid fuels unless all original parts have been replaced, and the fireplace re-approved by the authority having jurisdiction.*

E. Electrical Outlet Box

An outlet box may be installed in a bottom back corner of the existing solid fuel masonry or factory built fireplace to permit blowers or other optional accessories to be used. Alternatively, the supplied power cord may be routed out onto the hearth to a nearby outlet.

F. Remote Control Configuration

The Intellifire™ Plus should be programmed to the RC300 remote control prior to the installation of the insert into the existing solid fuel masonry or factory built fireplace.

The control is accessed by removing the lower access panel on the left side of the insert. See Figure 3.1 for location of lower access panel.

7 Installing Vent Pipe and Appliance

A. Vent Limits

The abbreviations listed in this vent table key are used in the vent diagrams.

Description
Minimum Vertical Run Length 10 ft.
Maximum Vertical Run Length 50 ft.

Horizontal venting is NOT allowed.

Vertical terminations are measured to top of chimney.

This appliance is listed for use with LINK-DV systems and components only. It is permissible to extend venting above existing chimney (within specified maximum vertical limits) using SL-D series or Dura Vent GS series 4 in. x 6-5/8 in. gas direct-vent pipe. Connection is made using DV-46DVA-GK. The vent must be terminated with the cap supplied with the LINK-series vent kit.

WARNING! Risk of Fire/Explosion/Asphyxiation! Do NOT connect this gas appliance to a chimney flue serving a separate solid fuel or gas burning appliance.

- May impair safe operation of this appliance or other appliances connected to the flue.
- Vent this appliance directly outside.
- Use separate vent system for this appliance.

CAUTION! ALL vent specifications MUST be followed. This product is tested and listed to these specifications. Appliance performance will suffer if specifications are not followed.

B. Venting Components

CAUTION! Risk of Cuts/Abrasions/Flying Debris. Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.

The vertical vent termination system installed on this model includes:

- One 3-foot section stainless steel flexible pipe (included with insert).
- One length of 3-inch flexible vent pipe for exhaust air (included with vent kit).
- One length of 3-inch flexible vent pipe for combustion air (included with vent kit).
- One pipe-to-cap adaptor (included with vent kit).
- One vertical termination cap (included with vent kit).
- Installation instructions for use in venting installation (included with the vent kit).

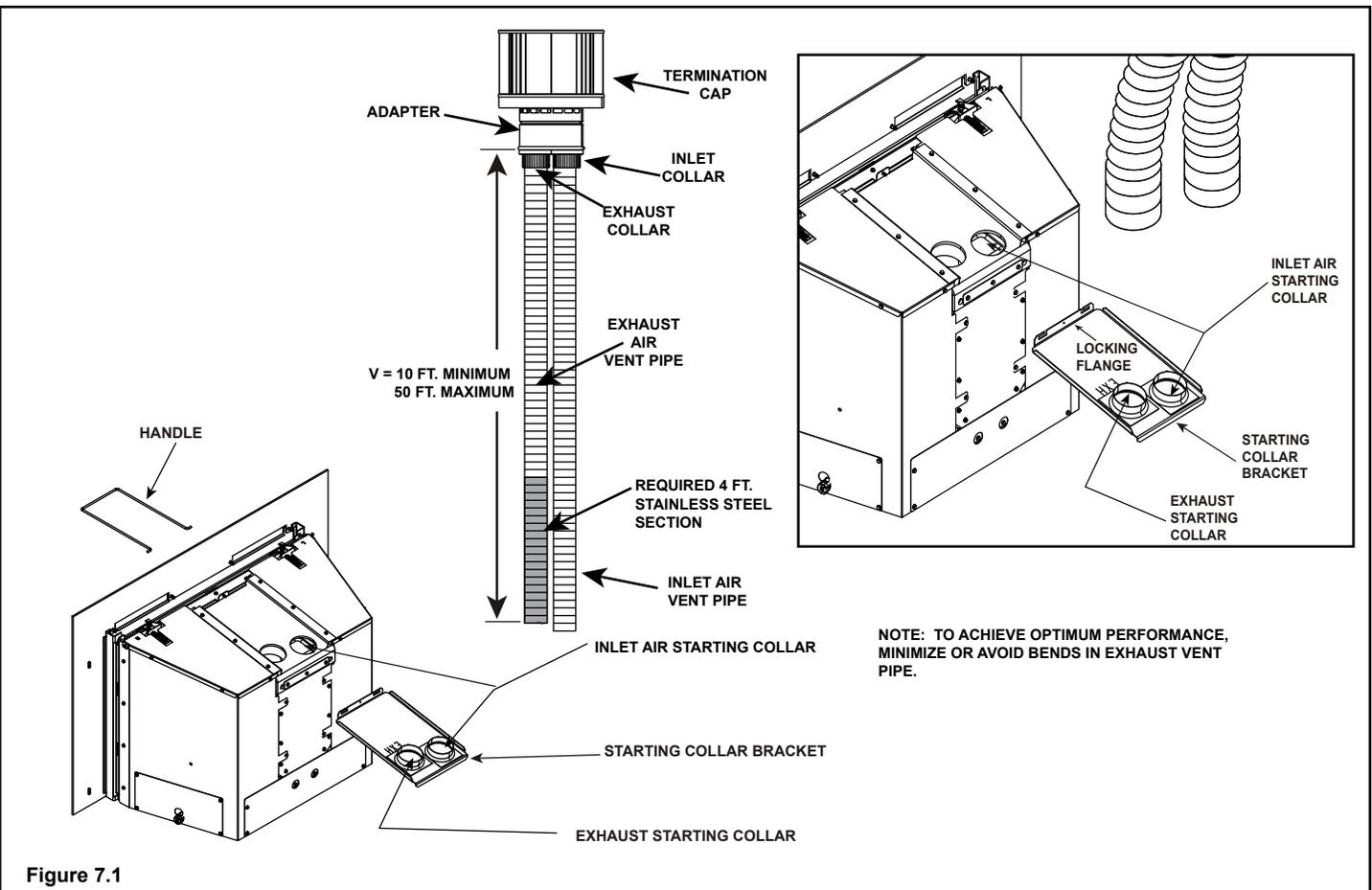
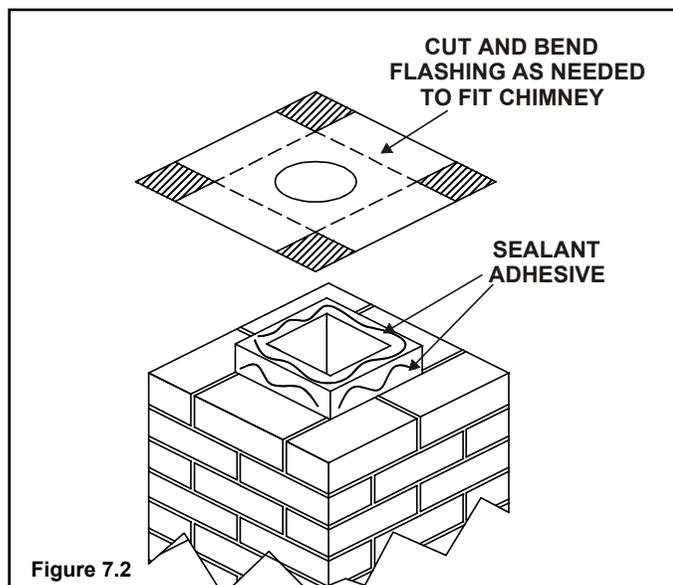


Figure 7.1

C. Connecting Vent Pipe

Reference instructions in the termination kit.

- Install the 3-inch flexible vent pipe(s) down through the chimney.
- Secure the exhaust flexible vent pipe to the 3 foot section stainless steel flexible vent pipe using the factory-installed 3-inch collar in the stainless steel section of pipe (see Figure 7.1).
- Secure the stainless flexible vent pipe to the exhaust starting collar on top of the appliance with three screws.
- Use 3 screws to attach the section of inlet air vent to the inlet collar on the collar slide plate. See Figure 7.1. NOTE: The collar slide plate may be removed from appliance to aid installation.



- Trim chimney top plate to minimize excess overhang or bend over flue tile (see Figure 7.2).
- Place 3/8 inch bead of 300°F silicone on flue tile top.

D. Placing, Securing and Leveling the Appliance

WARNING! Risk of Explosion/Combustion Fumes!
Connect vent sections per installation instructions.

- The 3 foot section of stainless steel flexible pipe **MUST** be attached directly to the exhaust collar on the collar slide plate.
- Connect exhaust vent pipe **ONLY** to exhaust starting collar and termination cap center collar.
- Connect inlet air vent **ONLY** to inlet air collar on appliance and either the termination cap inlet air collar **OR** terminate within chimney.
- **DO NOT** allow vent to sag below connection point to appliance.
- Remove rear leveling legs from shipping position and relocate to one of the positions shown in Figure 7.3. Remove both screws that secure the leveling leg to the side of the appliance. Turn the leveling leg around so that the foot is facing out and downward. Line up the two holes on the leg with the holes on the appliance and secure with screws. See Figure 7.3.
- Front leveling legs are shipped with surround and may be installed in one of two locations. See Figure 7.3.
- Install insert (without surround attached) into existing fireplace while pulling collar slide plate forward.
- Install gas line into hole provided on side.
- Secure collar slide plate to appliance by placing locking handle into position with locking tabs (see Figure 7.1) and secure with #8 screw.
- Level the appliance from side to side and front to back. Adjust leveling bolts to desired vertical position so appliance is level. Use the leveling bolts included with the manual bag.
- A minimum 1/2 inch gap from the bottom of the appliance to a metal surface is recommended for optimal fan performance. See Figure 4.1-A and Figure 4.1-B.
- Position any excess flexible vent pipe back up into chimney without sagging. Twist and push flex vent together to shorten.
- Attach surround. Follow instructions for surround installation included with the front.
- Push insert into the opening so that it tightly overlaps the fireplace opening.

WARNING! Risk of Fire! Only an approved Hearth & Home Technologies surround may be used to cover integral grills on solid fuel burning fireplaces. No other components such as shrouds, sheetmetal plates, etc., may be used to seal off vents.

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

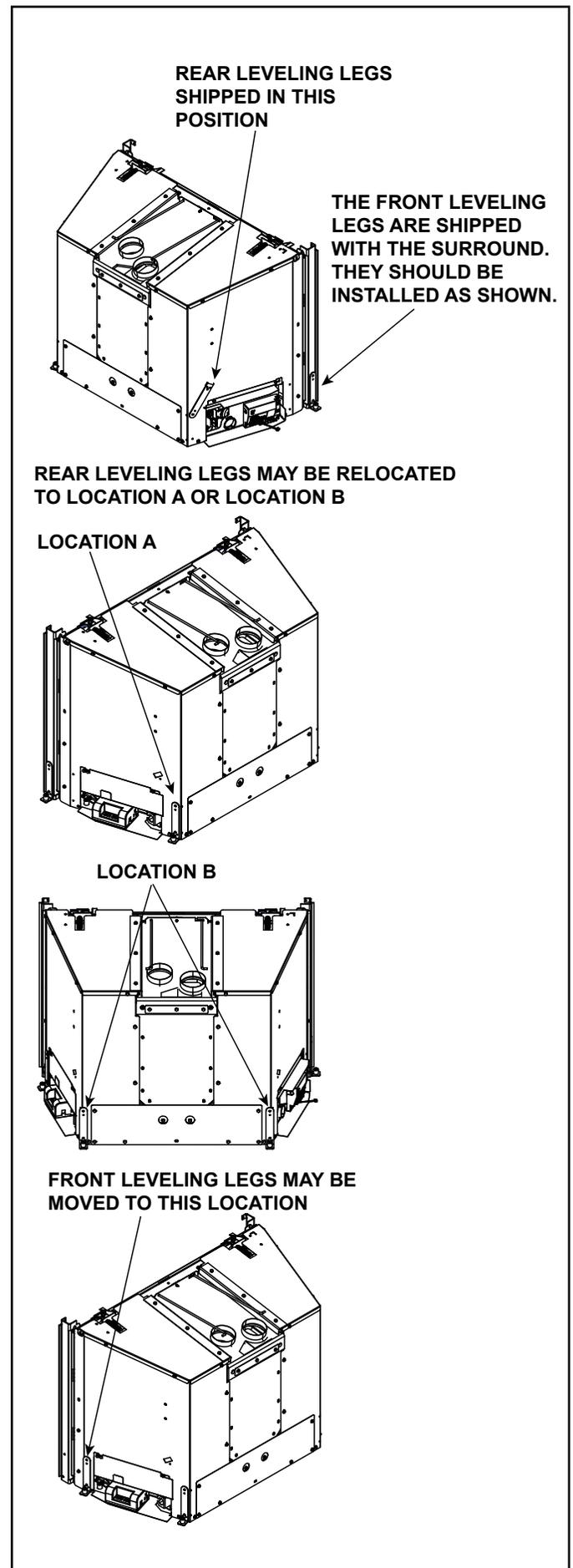


Figure 7.3

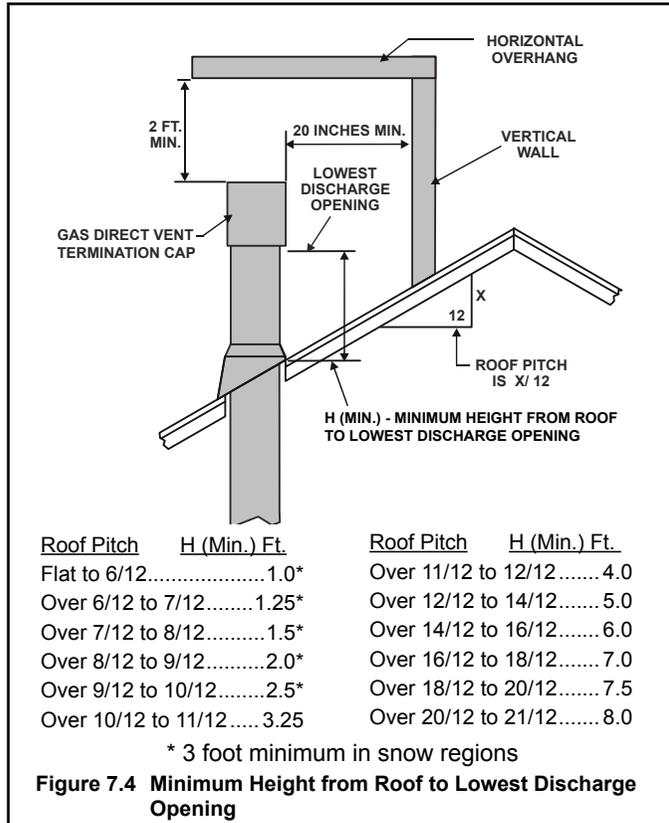
E. Installing Adaptor and Termination Cap

CAUTION! Risk of Cuts/Abrasions/Flying Debris.
Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.

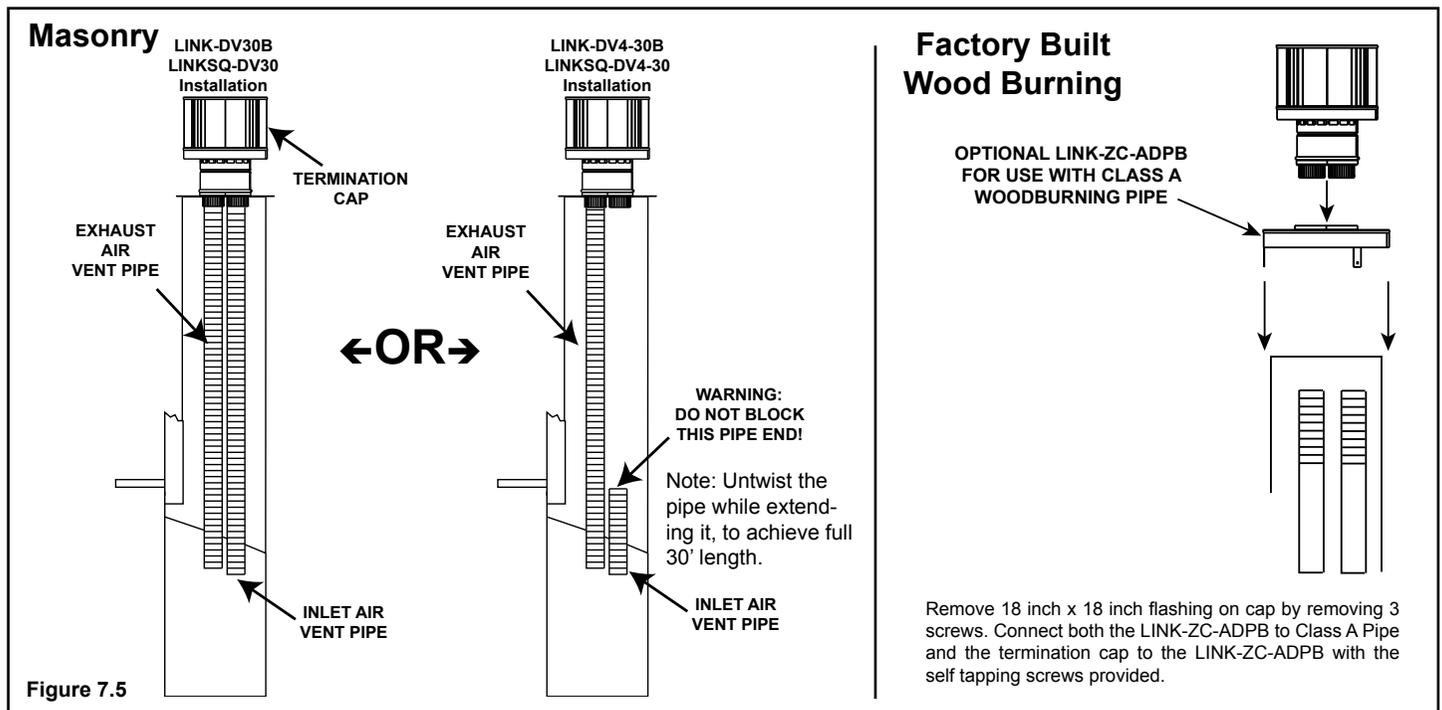
For installation of termination cap see minimum vent heights for various pitched roofs (see Figure 7.4) .

To install adaptor see Figure 7.5.

To prevent odors and cold drafts, the chimney must be sealed around the vent with non-combustible blanket insulation or field fabricated metal plates.



To help eliminate cold air drafts, it may be necessary to place non-combustible insulation around the flues as they go through the damper.



8 Electrical Information

A. General Information

WARNING! Risk of Shock or Explosion! DO NOT wire 110-120 VAC to the valve or to the appliance wall switch. Incorrect wiring will damage controls.

NOTICE: This appliance must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with **National Electric Code ANSI/NFPA 70-latest edition** or the **Canadian Electric Code CSA C22.1**.

- Wire the appliance junction box to unswitched 110-120 VAC. This is required for proper operation of the appliance.
- This appliance comes with a 110-120 VAC cord assembly. This is required for proper operation of the appliance (Intellifire™ Plus Ignition). An outlet box may be installed in a bottom back corner of the existing solid fuel masonry or factory built fireplace to plug in the cord assembly, or the supplied power cord may be routed out onto the hearth to a nearby outlet.
- A 110-120 VAC circuit for this product must be protected with ground-fault circuit-interrupter protection, in compliance with the applicable electrical codes, when it is installed in locations such as in bathrooms or near sinks.
- Low voltage and 110-120 VAC voltage cannot be shared within the same wall box.

Electrical Service and Repair

WARNING! Risk of Shock! Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

WARNING! Risk of Shock! Replace damaged wire with type 105° C rated wire. Wire must have high temperature insulation.

- Refer to Service Parts section of appliance Owner's Manual for replacement part information.

B. Wiring Requirements - IntelliFire™ Plus Ignition System Wiring

- Wire an outlet box (110-120 VAC) in the bottom back corner of the existing solid fuel masonry or factory built fireplace to plug in the cord assembly, or the supplied cord assembly may be rerouted out onto the hearth to a nearby outlet for proper operation of the appliance.

WARNING! Risk of Shock or Explosion! DO NOT wire IPI controlled appliance junction box to a switched circuit. Incorrect wiring will override IPI safety lockout.

- Refer to Figure 8.1, IPI Plus Wiring Diagram.
- This appliance is equipped with an IntelliFire™ Plus control valve which operates on a 6 volt/1.5 AMP system.
- Plug the 6 volt transformer plug into the appliance cord assembly to supply power to the unit OR install 4 AA cell batteries (not included) into the battery tray before use. See Section 3.H in Owner's Manual for instructions on locating battery tray and installing batteries.

NOTICE: Batteries should only be used as a power source in the event of an emergency power outage. Batteries should not be used as a primary long-term power source. Battery polarity must be correct when installing batteries. When using batteries as a power source, the 6 volt transformer must be unplugged from the receptacle.

Do not store batteries in the battery pack when the appliance is powered by the 6 volt transformer connected to permanent electrical service

IPI Battery Tray/Battery Installation

The IntelliFire™ Plus system has a battery backup option. Batteries should only be placed in the battery pack when 110-120 VAC is not available. See Section 3.H of Owner's manual.

Control Module Operation

See Section 3.I of Owner's Manual for control module operation instructions.

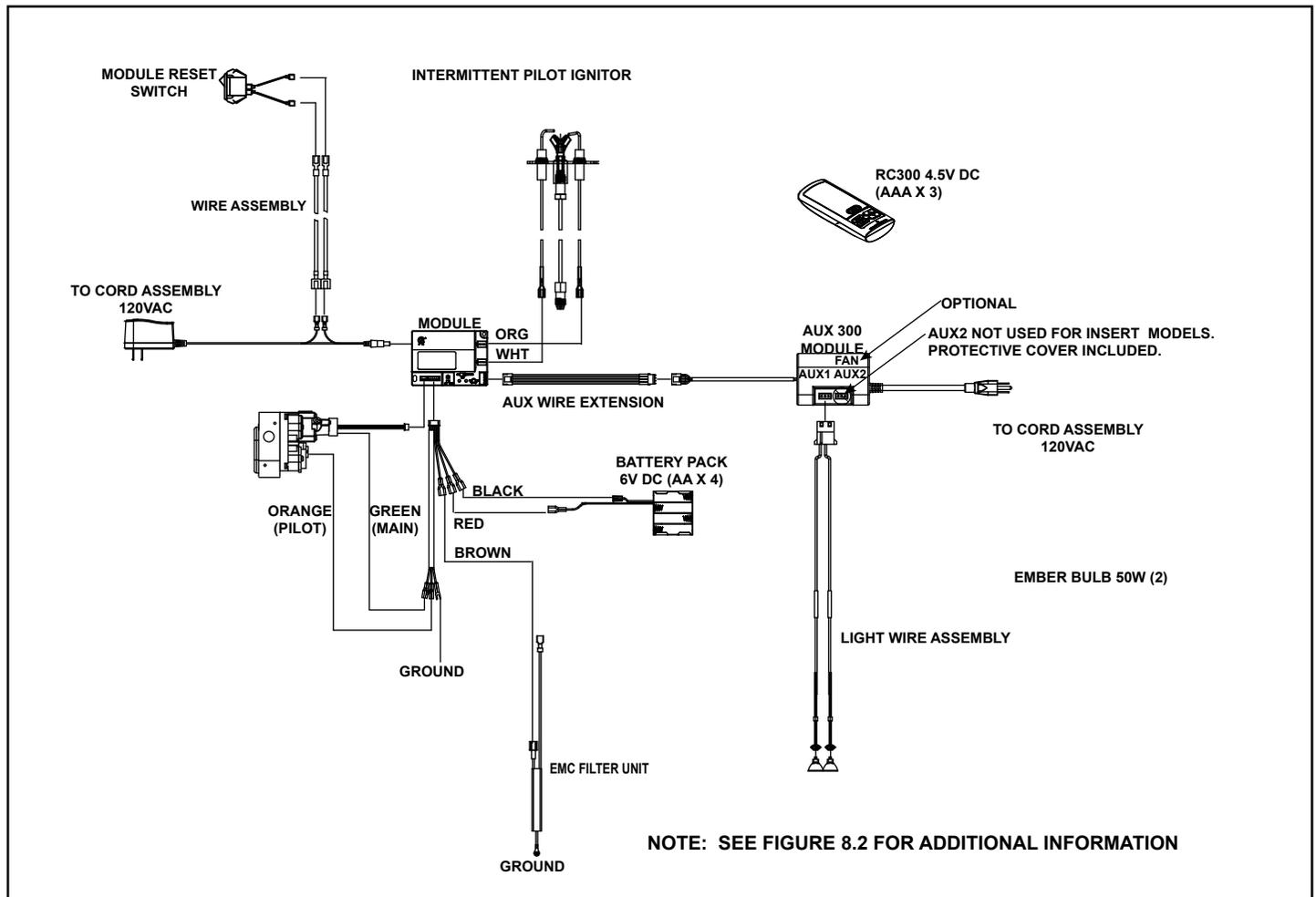


Figure 8.1 IntelliFire™ Plus Pilot Ignition (IPI) Wiring Diagram

Note: if any of the original wire as supplied with the appliance must be replaced, it must be replaced with type 105 °C rated wire.

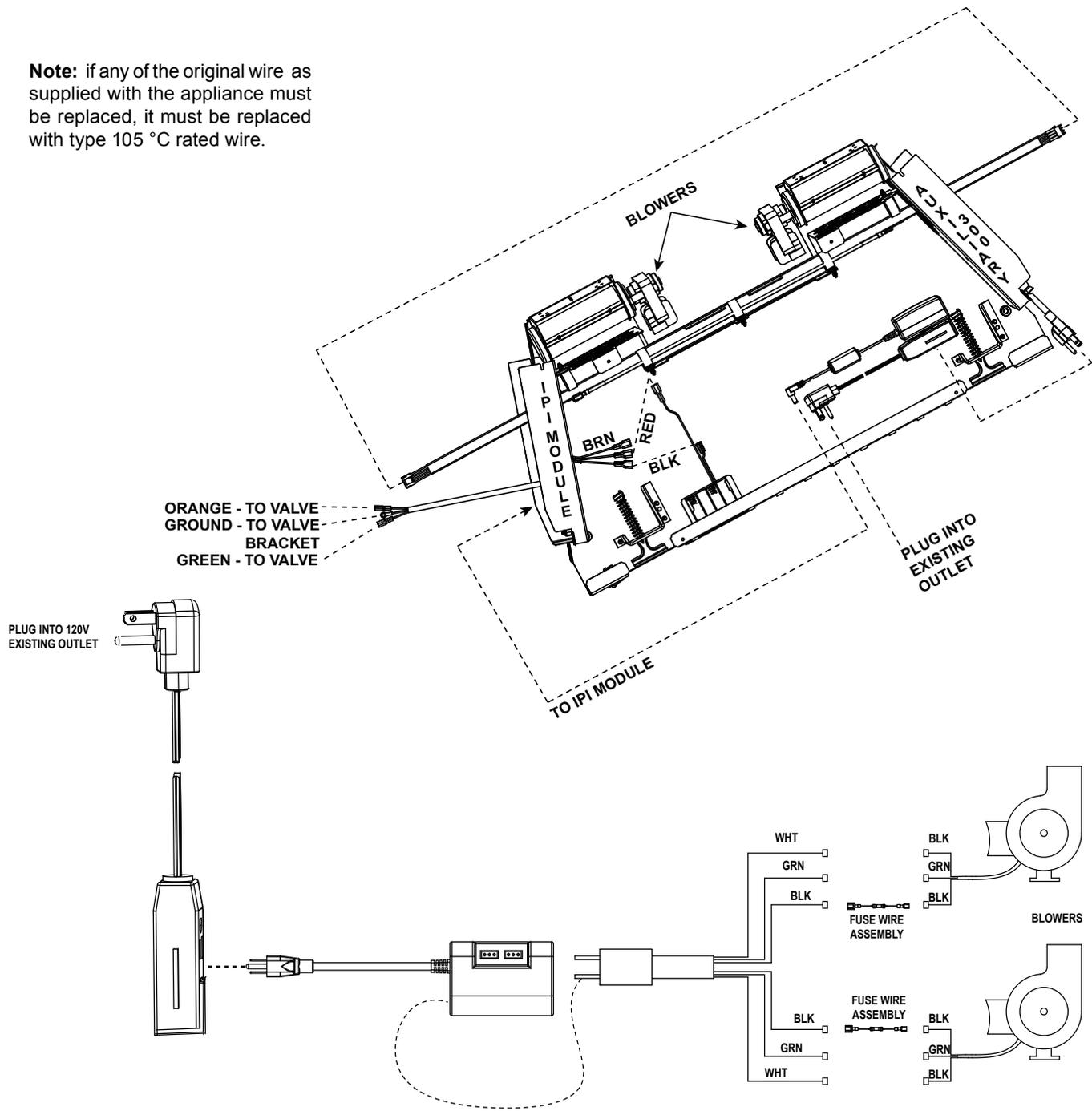


Figure 8.2 Fan Wiring Diagram

NOTE: SEE FIGURE 8.1 FOR ADDITIONAL INFORMATION

C. Programming the RC300 to the Control Module

CAUTION! Risk of burns! DO NOT program the remote control to the control module when fireplace is hot.

- Refer to the RC300 Installation Instructions included in appliance manual bag to program the RC300 to the control module.

9 Gas Information

A. Fuel Conversion

- Make sure the appliance is compatible with available gas types.
- Conversions must be made by a qualified service technician using Hearth & Home Technologies specified and approved parts.

B. Gas Pressure

- Optimum appliance performance requires proper input pressures.
- Gas line sizing requirements will be determined in ANSI Z223.1 National Fuel Gas Code in the USA and CAN/CGA B149 in Canada.
- Pressure requirements are:

Gas Pressure	Natural Gas	Propane
Minimum inlet pressure	5.0 in. w.c.	11.0 in. w.c.
Maximum inlet pressure	10.0 in. w.c.	13.0 in. w.c.
Manifold pressure	3.5 in. w.c.	10.0 in. w.c.

WARNING! Risk of Fire or Explosion! High pressure will damage valve. Low pressure may cause explosion.

- Verify inlet pressures. Verify minimum pressures when other household gas appliances are operating.
- Install regulator upstream of valve if line pressure is greater than 1/2 psig.

⚠ WARNING	
	<p>Fire Risk. Explosion Hazard. High pressure will damage valve.</p> <ul style="list-style-type: none">• Disconnect gas supply piping BEFORE pressure testing gas line at test pressures above 1/2 psig.• Close the manual shutoff valve BEFORE pressure testing gas line at test pressures equal to or less than 1/2 psig.

Note: Have the gas supply line installed in accordance with local codes, if any. If not, follow ANSI 223.1. Installation should be done by a qualified installer approved and/or licensed as required by the locality. (In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter).

Note: A listed (and Commonwealth of Massachusetts approved) 1/2 in. (13 mm) T-handle manual shut-off valve and flexible gas connector are connected to the 1/2 in. (13 mm) control valve inlet.

- **If substituting for these components, please consult local codes for compliance.**

C. Gas Connection

- Refer to Reference Section 3 for location of gas line access in appliance.
- Gas line may be run through knockout(s) provided.
- The gap between supply piping and gas access hole may be caulked with caulk with a minimum of 300°F continuous exposure rating or stuffed with non-combustible, unfaced insulation to prevent cold air infiltration.
- Ensure that gas line does not come in contact with outer wrap of the appliance. Follow local codes.
- Pipe incoming gas line into valve compartment.
- Connect incoming gas line to the 1/2 in. (13 mm) connection on manual shutoff valve.

WARNING! Risk of Fire or Explosion! Support control when attaching pipe to prevent bending gas line.

- A small amount of air will be in the gas supply lines.

WARNING! Risk of Fire or Explosion! Gas build-up during line purge could ignite.

- Purge should be performed by qualified service technician.
- Ensure adequate ventilation.
- Ensure there are no ignition sources such as sparks or open flames.

Light the appliance. It will take a short time for air to purge from lines. When purging is complete the appliance will light and operate normally.

WARNING! Risk of Fire, Explosion or Asphyxiation! Check all fittings and connections with a non-corrosive commercially available leak-check solution. **DO NOT** use open flame. Fittings and connections could have loosened during shipping and handling.

WARNING! Risk of Fire! DO NOT change valve settings. This valve has been preset at the factory.

D. High Altitude Installations

NOTICE: If the heating value of the gas has been reduced, these rules do not apply. Check with your local gas utility or authorities having jurisdiction.

When installing above 2000 feet elevation:

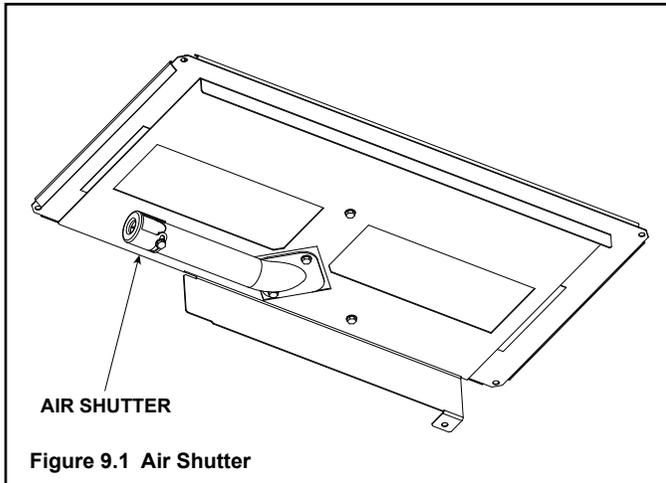
- In the USA: Reduce input rate 4% for each 1000 feet above 2000 feet.
- In CANADA: Input ratings are certified without a reduction of input rate for elevations up to 4500 feet (1370 m) above sea level. Please consult provincial and/or local authorities having jurisdiction for installations at elevations above 4500 feet (1370 m).

Check with your local gas utility to determine proper orifice size.

E. Air Shutter Setting

Air shutter settings should be adjusted by a qualified service technician at the time of installation. The air shutter is set at the factory for minimum vertical vent run. Adjust air shutter for longer vertical runs. See Figure 9.1.

NOTICE: *If sooting occurs, provide more air by opening the air shutter.*



Air Shutter Settings

	NG	LP
ESCAPE-I30-F	1/4 in.	Full Open
ESCAPE-I35-F	1/4 in.	Full Open

10 Finishing

A. Mantel and Wall Projections

WARNING! Risk of Fire! Comply with all minimum clearances to combustibles as specified. Framing or finishing material closer than the minimums listed must be constructed entirely of noncombustible materials (i.e., steel studs, concrete board, etc).

Clearance to combustible material under the insert is 1/4 inch (6 mm). Clearance from top of fireplace opening for combustibles extending 12 inches max. is 12 inches.

- Use leveling legs to raise insert minimum 1/4 inch (6 mm) above combustible material or outer wrap of factory built firebox.

Combustible facings must not extend behind the insert surround. For non-combustible material specifications refer to section 1.E.

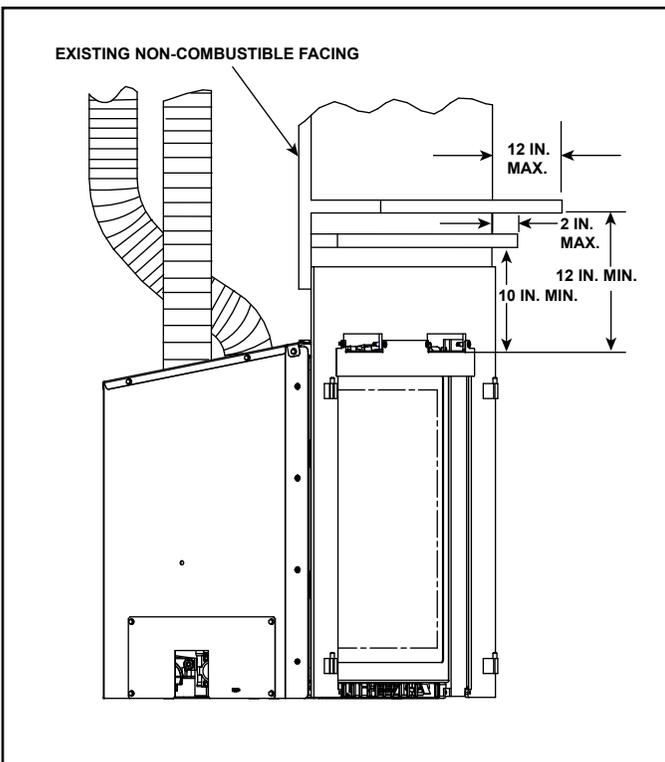


Figure 10.1 Mantel Clearance

11 Appliance Setup

A. Fixed Glass Assembly

WARNING! Risk of Asphyxiation! Handle fixed glass assembly with care. Inspect the gasket to ensure it is undamaged and inspect the glass for cracks, chips or scratches.

- **DO NOT** strike, slam or scratch glass.
- **DO NOT** operate fireplace with glass removed, cracked, broken or scratched.
- Replace as a complete assembly.

Removing Fixed Glass Assembly

- The glass assembly fastens to the fireplace in four places. The fastening mechanisms are spring-loaded glass latches. An example of the top glass latch is shown in Figure 11.1 and an example of the bottom glass latch is shown in Figure 11.2.

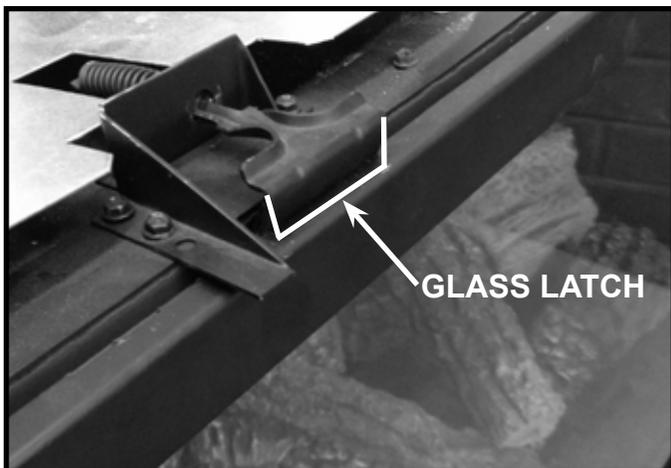


Figure 11.1 Top Glass Latch

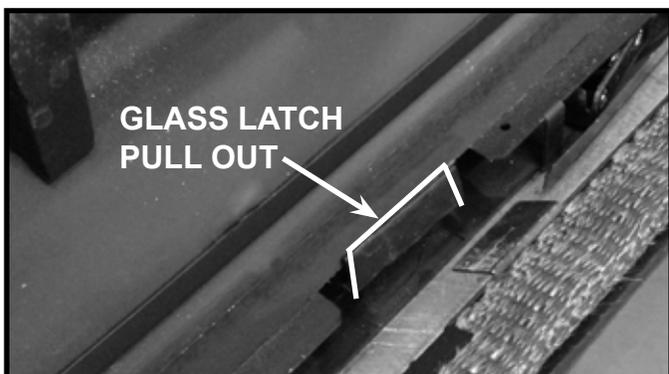


Figure 11.2 Bottom Glass Latch

- To remove glass assembly, release one top glass latch at a time. Use one hand to support the glass while pulling the top spring-loaded latch forward with the other hand.



Figure 11.3 Release Glass Latches One at a Time

- Once both top latches are disengaged, grab the glass frame assembly by the sides and tilt it outward and downward. Lift up slightly to disengage the glass assembly from the bottom glass latches. See Figure 11.4.



Figure 11.4 Tilt Glass Down and Lift Up to Disengage Bottom Latch

Replacing Fixed Glass Assembly

- Tilt glass assembly toward fireplace and slide glass assembly downward to engage bottom latches. Verify bottom latches are fully engaged and then fasten the two top latches.
- Note that the extended glass latch tabs on the glass frame are for the bottom glass latches.

B. Remove the Shipping Materials

Remove shipping materials from inside or underneath the firebox. Remove metal panels covering electrical components on sides of appliance.

→ C. Inspect Firebox

Surface cracking or crazing of firebrick material is normal and expected. All cracks are acceptable and do not require replacement of the unit or the firebox with the exception of:

- Cracks compromising the surface plane of the firebox. See Figure 11.5.

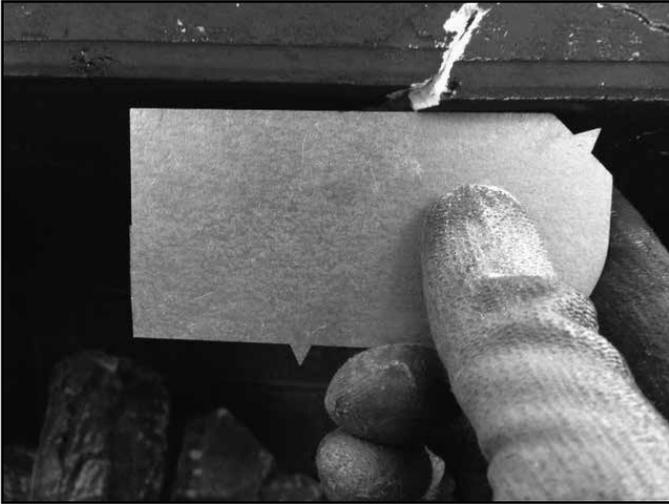


Figure 11.5. Surface plane of firebox is comprised and should be replaced.

D. Clean the Appliance

Clean/vacuum any sawdust that may have accumulated inside the firebox or underneath in the control cavity.

E. Accessories

Install approved accessories per instructions included with accessories. Contact your dealer for a list of approved accessories.

WARNING! Risk of Fire and Electric Shock! Use ONLY Hearth & Home Technologies-approved optional accessories with this appliance. Using non-listed accessories could result in a safety hazard and will void the warranty.

F. Place the Lava Rock

WARNING! Risk of Explosion! Follow lava rock placement instructions in manual. **DO NOT** place lava rock on burner. Improperly placed lava rock interferes with proper burner operation.

Lava rock is shipped with this gas appliance. To place the lava rock:

- Lava rock **CANNOT** be placed on the burner.
- Place lava rock in front of and to the sides of the burner. See Figure 11.5.

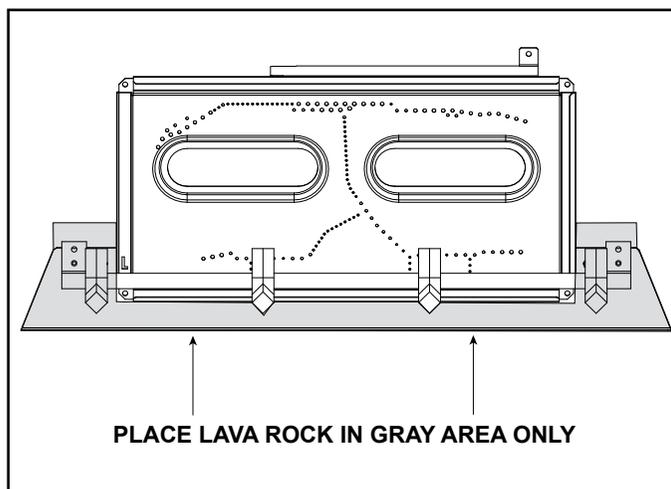


Figure 11.5 Placement of Lava Rock

G. Ember Placement

WARNING! Risk of Explosion! Follow ember placement instructions in manual. **DO NOT** place embers directly over burner ports. Replace ember material annually. Improperly placed embers interfere with proper burner operation.

Ember material is shipped with this gas appliance. To place the ember material:

- Embers **CANNOT** be placed directly over ports. Care should be taken not to cover the lighting trail of ports (from back to front).
- Place dime-size pieces of Glowing Embers® just in front of the port trail, but not on or in between the ports. See Figure 11.6 (Escape-I30-F) or Figure 11.7 (Escape-I35-F). Care should be taken so that the ports are not covered. Failure to follow this procedure will likely cause lighting and sooting problems.
- Save the remaining ember materials for use during appliance servicing. The embers provided should be enough for 3 to 5 applications.

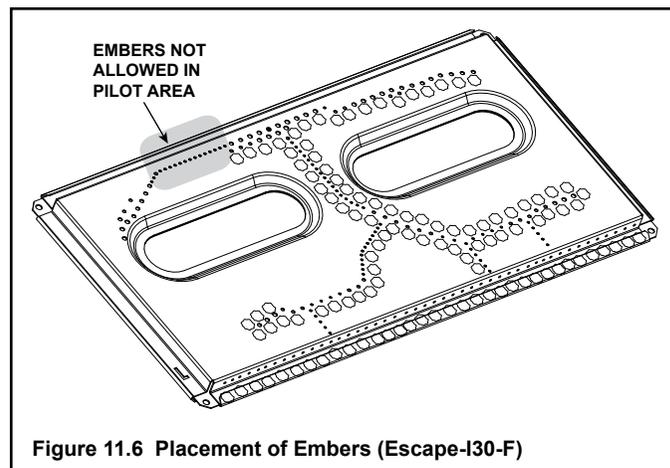


Figure 11.6 Placement of Embers (Escape-I30-F)

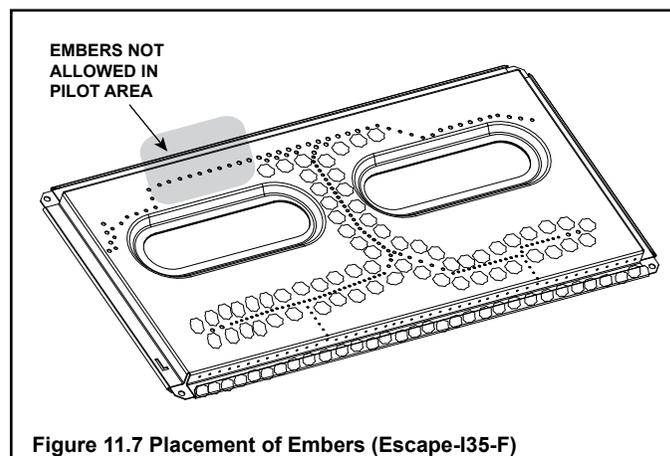


Figure 11.7 Placement of Embers (Escape-I35-F)

H. Install the Log Assembly and Glass Rock

Log Set Assembly: LOGS-I30FB

Models: ESCAPE-I30-C, ESCAPE-I30FB, ESCAPE-I30-F

CAUTION: Logs are fragile, handle with care.

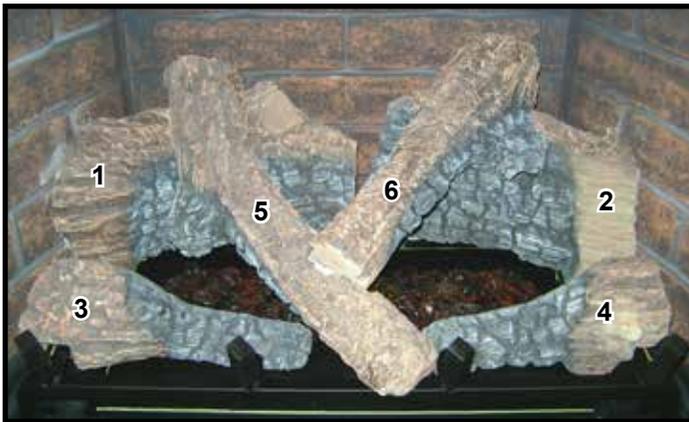


Figure 1. Log Set Installed

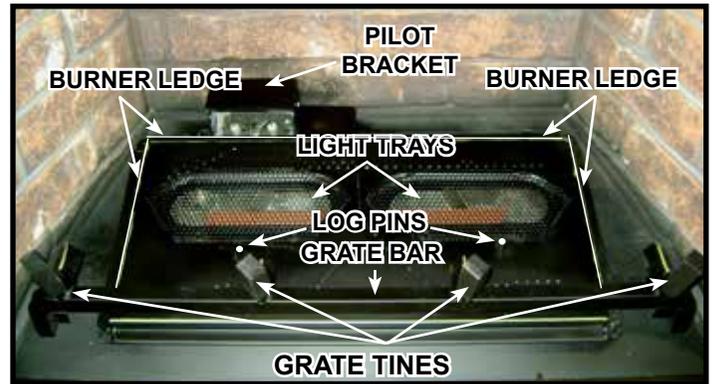


Figure 2. Reference Points

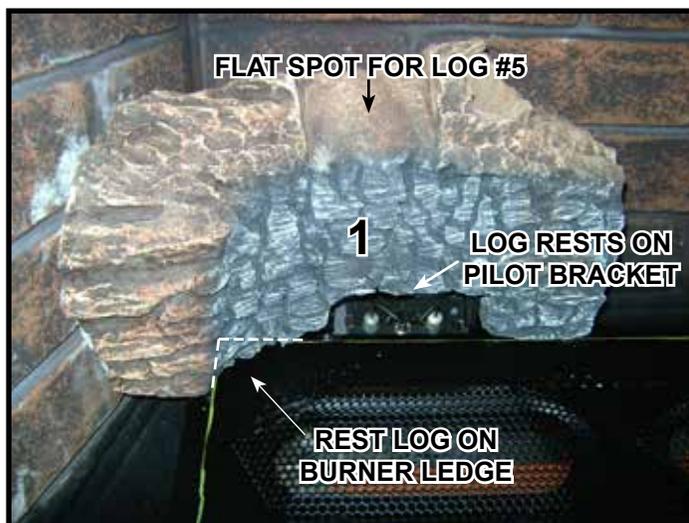


Figure 3. Log #1

Log #1 (SRV2201-702): See Figure 2 for additional references. Position Log #1 as shown in Figure 3. Rest the left and right ends of Log #1 on the burner ledge. The pilot bracket will support the center of the log.

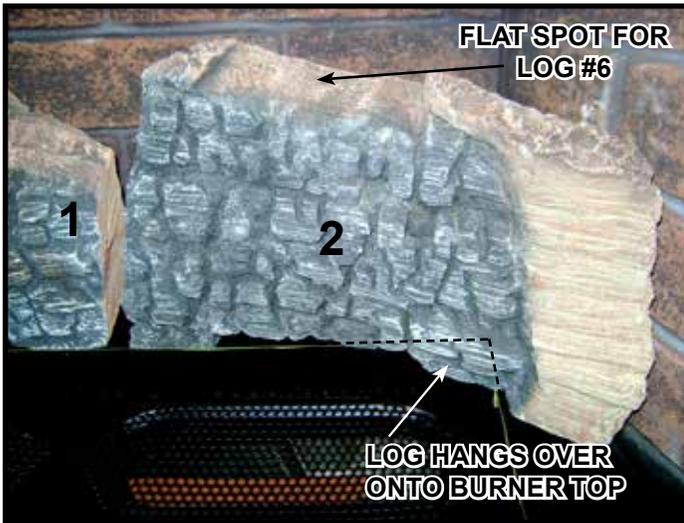


Figure 4. Log #2

Log #2 (SRV2201-701): See Figure 2 for additional references. Position Log #2 as shown in Figure 4. Mate Log #2 with the right corner of the burner as shown. Pull the log forward and to the left until it locks into position.

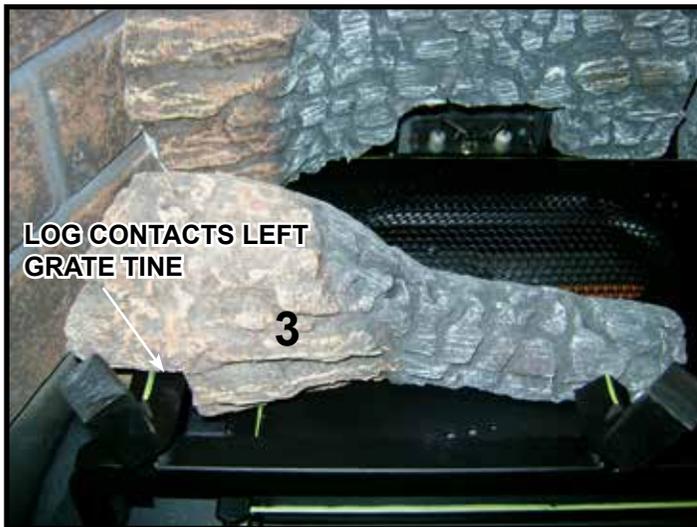


Figure 5. Log #3

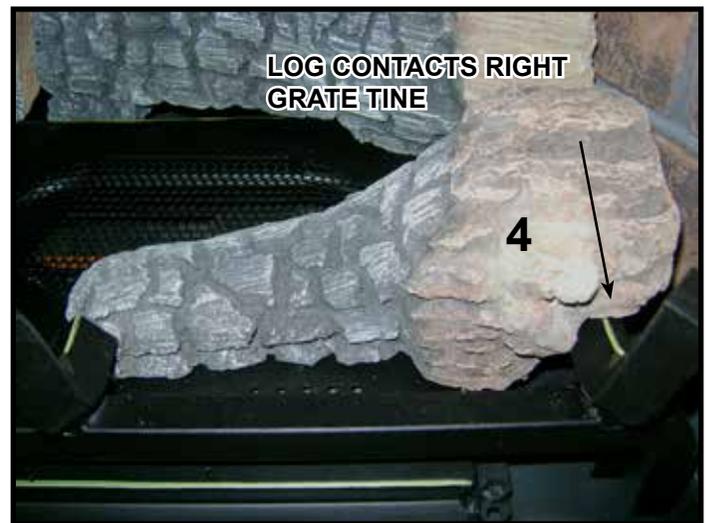


Figure 6. Log #4

Log #3 (SRV2201-704): See Figure 2 for additional details. Locate the log slot on the bottom right end of Log #3. Mate the log slot with the left log pin. Rotate the left end of the log counterclockwise, until it contacts the grate tine.

Log #4 (SRV2201-705): See Figure 2 for additional details. Locate the log slot on the bottom left end of log #4. Mate the log slot with the right log pin. Rotate the right end of the log clockwise, until it contacts the grate tine.

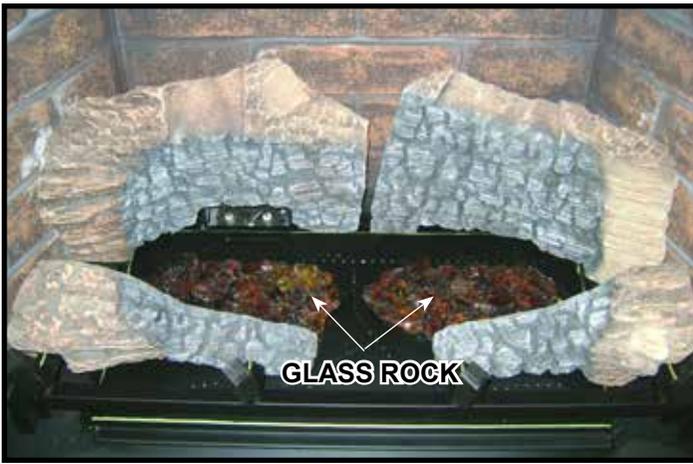


Figure 7. Glass Rock in Place

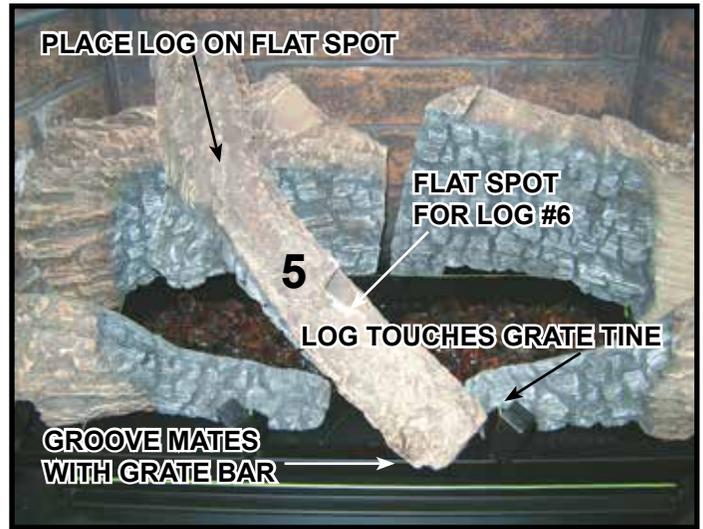


Figure 8. Place Log #5

GLASS ROCK (2201-853): Once Log #3 and Log #4 are installed, fill each light tray with the glass rock. See Figure 7.

WARNING! Risk of Explosion! DO NOT place glass rock on the burner surface. DO NOT place glass rock directly over burner ports. Improperly placed glass rock interferes with proper burner operation.

LOG #5 (SRV2201-703): **SEE FIGURE 2 FOR ADDITIONAL REFERENCES.** Place the thick end of Log #5 on the flat spot of Log #1. Locate the groove on the thin end of the log. Mate the groove with the grate bar as shown above. Swing the front end of the log to the right, until it contacts the second grate tine from the right.



Figure 9. Place Log #6

Log #6 (SRV2201-706): See Figures 2 and 4 for additional references. Place the thick end of the log on the flat spot of Log #2. Place the thin end of the Log #6 on the flat spot of Log #5 as shown in Figure 8.

2201-935F

H. Install the Log Assembly and Glass Rock

Log Set Assembly: LOGS-I35FB

Models: ESCAPE-I35FB, ESCAPE-I35-C, ESCAPE-I35-F

CAUTION: Logs are fragile, handle with care.

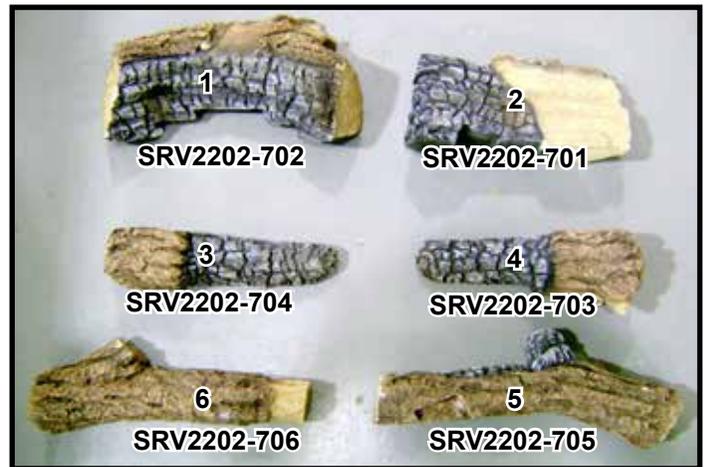


Figure 1. Log Set Installed

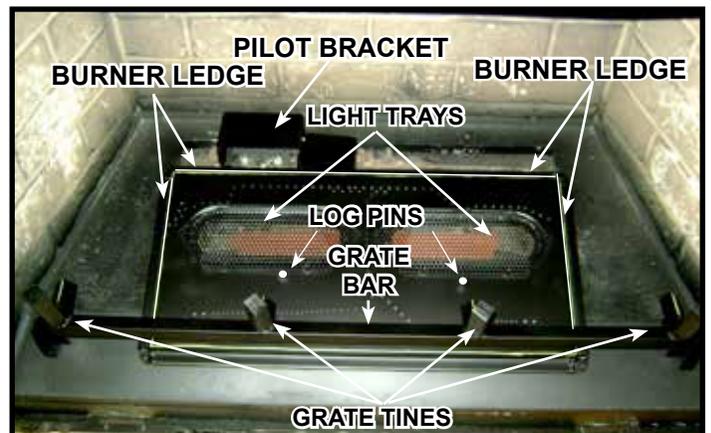


Figure 2. Reference Points

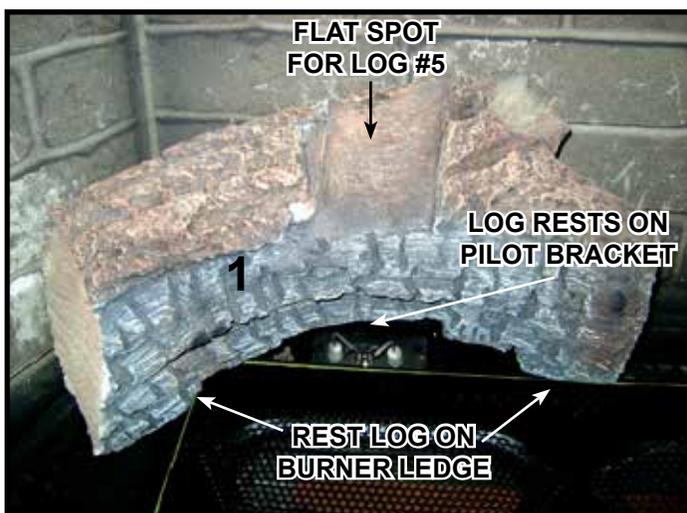


Figure 3. Log #1

Log #1 (SRV2202-702): See Figure 2 for additional references. Position Log #1 as shown in Figure 3. Rest the left and right ends of Log #1 on the burner ledge. The pilot bracket will support the center of the log. Pull the left end of the log forward into position.

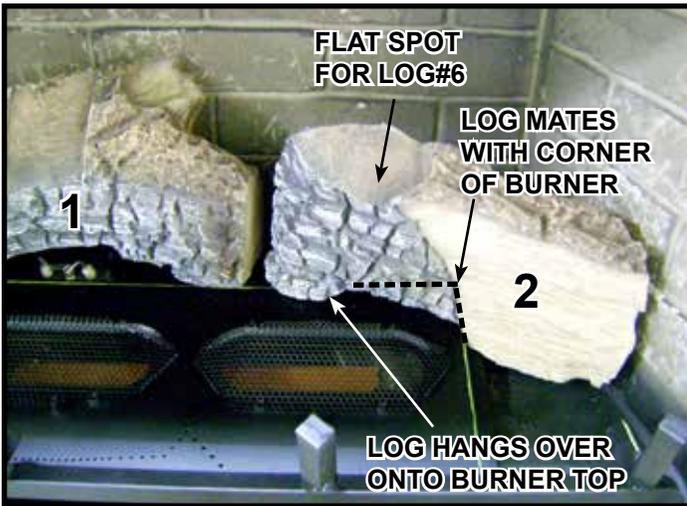


Figure 4. Log #2

Log #2 (SRV2202-701): See Figure 2 for additional references. Position Log #2 as shown in Figure 4. Mate Log #2 with the right corner of the burner as shown. Pull the log forward and to the left until it locks into position.



Figure 5. Log #3

Log #3 (SRV2202-704): See Figure 2 for additional reference details. Locate the log slot on the bottom right end of Log #3. Mate the log slot with the left log pin. Rotate the left end of the log counterclockwise, until it contacts the grate tine.



Figure 6. Log #4

Log #4 (SRV2202-703): See Figure 2 for additional reference details. Locate the log slot on the bottom left end of log #4. Mate the log slot with the right log pin. Rotate the right end of the log clockwise, until it contacts the grate tine.

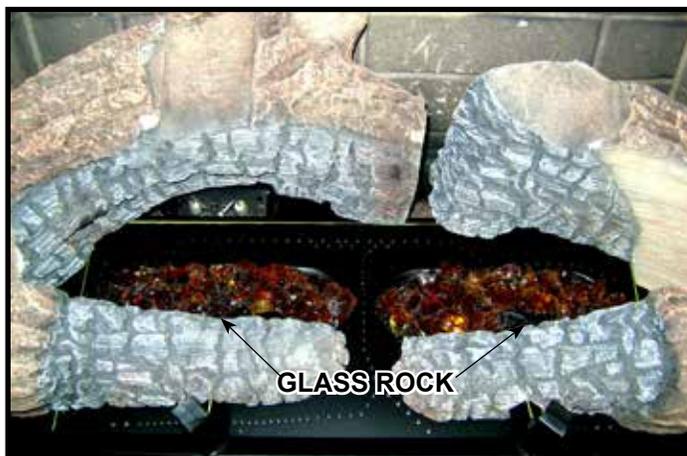


Figure 7. Glass Rock in Place

Glass Rock (2201-853): Once Log #3 and Log #4 are installed, fill each light tray with the glass rock.

WARNING! Risk of Explosion! DO NOT place glass rock on the burner surface. DO NOT place glass rock directly over burner ports. Improperly placed glass rock interferes with proper burner operation.

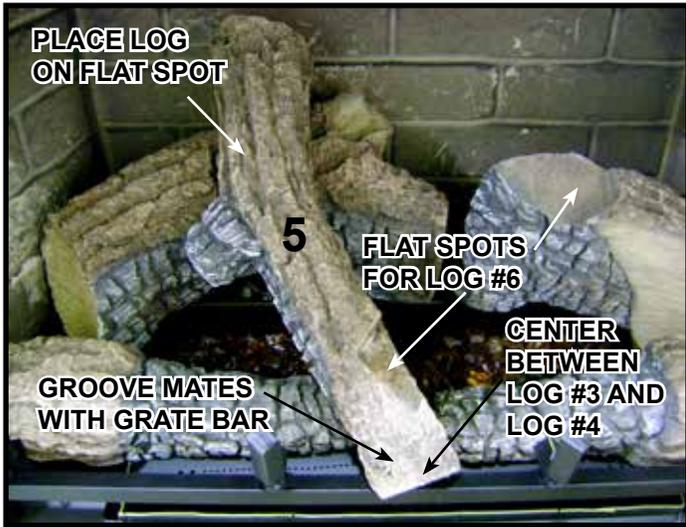


Figure 8. Place Log #5

Log #5 (SRV2202-705): See Figures 2 and 3 for additional references. Place the thick end of Log #5 on the flat spot of Log #1. Locate the groove on the thin end of the log. Mate the groove with the grate bar as shown above. Center the tip of Log #5 between the ends of Log #3 and Log #4.

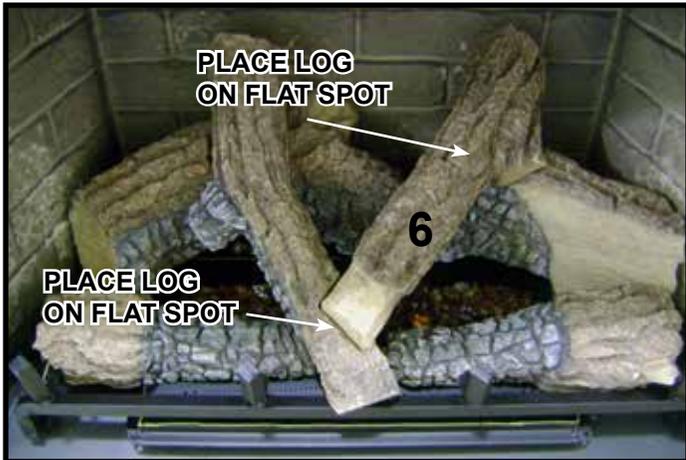


Figure 9. Place Log #6

Log #6 (SRV2202-706): See Figures 2 and 8 for additional references. Place the thick end of the log on the flat spot of Log #2. Place the thin end of Log #6 on the flat spot of Log #5 as shown in Figure 9.

2202-935E

I. Install Decorative Front/Surround

A decorative front is required to complete this installation. Installation instructions are included with the decorative fronts. Consult your dealer for a list of decorative front and surround options.

WARNING! Risk of Fire! Install *ONLY* doors or fronts approved by *Hearth & Home Technologies*. Unapproved doors or fronts may cause fireplace to overheat.

This fireplace has been supplied with an integral barrier to prevent direct contact with the fixed glass panel. DO NOT operate the fireplace with the barrier removed.

Contact your dealer or *Hearth & Home Technologies* if the barrier is not present or help is needed to properly install one.

For more information refer to the instructions supplied with your decorative door or front.

12 Reference Materials

A. Vent Components

Direct Vent Flex Liner Kits (see Figure 12.1)

LINK-DV30B: Masonry 3 inch flex liner kit. Expands to 30 feet. Includes: two liners, termination cap and flashing.

LINK-DV4-30B: Masonry 3 inch flex liner kit. Expands to 30 feet and 4 feet respectively. Includes: two liners, termination cap and flashing.

LINKSQC-DV30, LINKSQB-DV30: Masonry 3 inch flex liner kit. Expands to 30 feet. Includes: two liners, termination cap and flashing.

LINKSQC-DV4-30, LINKSQB-DV4-30: Masonry 3 inch flex liner kit. Expands to 30 feet and 4 feet respectively. Includes: two liners, termination cap and flashing.

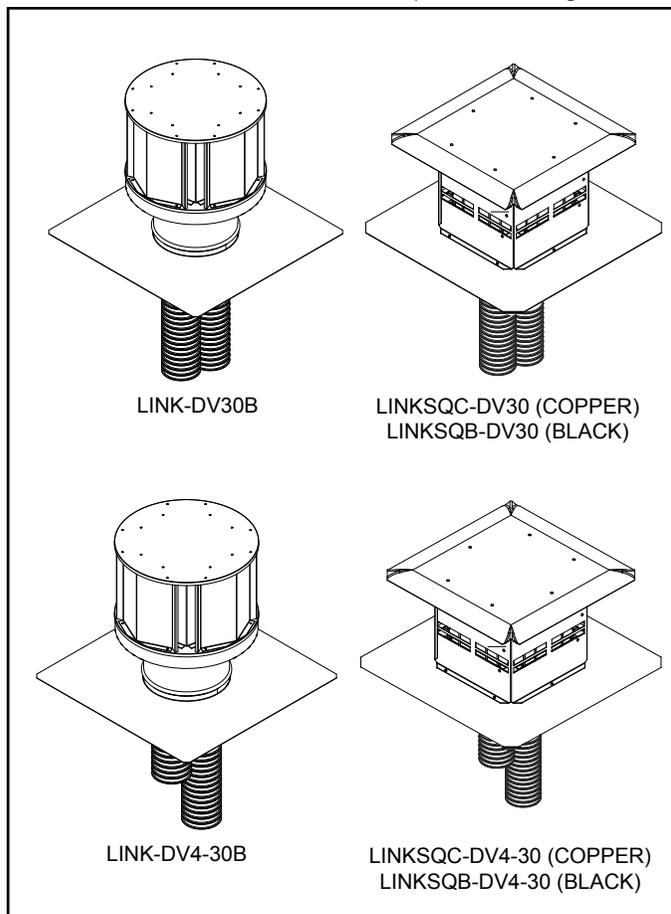


Figure 12.1 Direct Vent Flex Liner Kits

Direct Vent Flex Liner Accessory Kits. See Figure 12.2.

LINK-ZC-ADPB: Zero clearance chimney adapter

DV-46DVA-GK: Adapter kit - It is permissible to use DV-46DVA-GK to connect colinear flex vent to SL-D vent pipe to extend the run.

FLEX3-30: One 3 inch flexible liner expands to 30 feet.

FLEX-CNCT: Connector kit - 3 inch liner to 3 inch liner, one connector per kit.

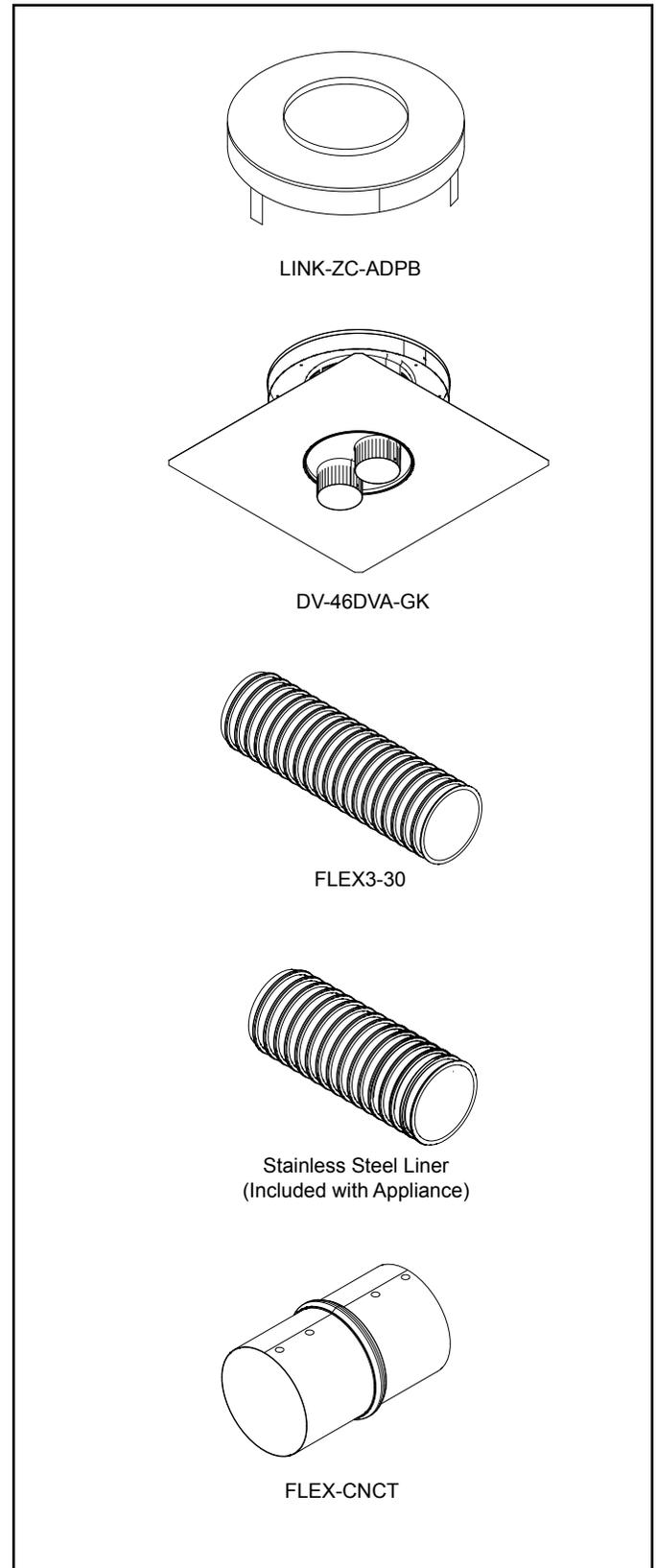


Figure 12.2 Direct Vent Flex Liner Accessory Kits

B. Accessories

Remote Controls, Wall Controls and Wall Switches

An RC300 remote control system is included with this appliance. After a qualified service technician has installed the remote control, wall control or wall switch, follow the instructions supplied with the control installed to operate your fireplace:

For safety:

- Install a switch lock or a wall/remote control with child protection lockout feature.
- Keep remote controls out of reach of children.

See your dealer if you have questions.

Heat & Glo, a brand of Hearth & Home Technologies
7571 215th Street West, Lakeville, MN 55044
www.heatnglo.com

Please contact your Heat & Glo dealer with any questions or concerns.
For the location of your nearest Heat & Glo dealer,
please visit www.heatnglo.com.

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