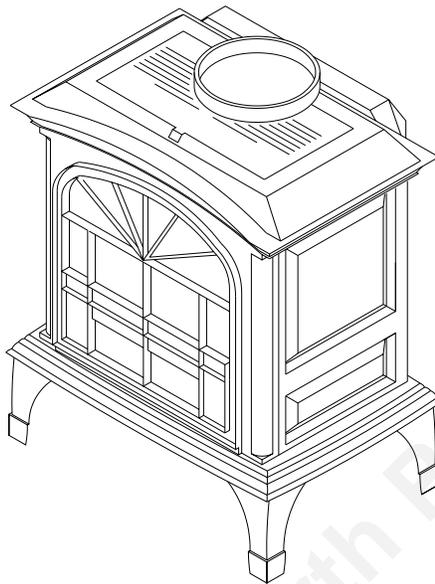




Heat-N-Glo Fireplace

**Models:
Townsend I and II**

Installers Guide



Underwriters
Laboratories Listed



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.

READ THIS MANUAL BEFORE INSTALLING OR OPERATING THIS APPLIANCE. THIS INSTALLERS GUIDE MUST BE LEFT WITH THE APPLIANCE FOR FUTURE REFERENCE.

WARNING: IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE INJURY OR PROPERTY DAMAGE. REFER TO THIS MANUAL. FOR ASSISTANCE OR ADDITIONAL INFORMATION CONSULT A QUALIFIED INSTALLER, SERVICE AGENCY, OR THE GAS SUPPLIER.

1. This appliance may be installed in an aftermarket, permanently located, manufactured (mobile) home, where not prohibited by local codes.
2. 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.

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Heat-N-Glo, a division of Hearth Technologies Inc.
6665 West Highway 13, Savage, MN 55378

Please contact your Heat-N-Glo dealer for any questions or concerns. For the number of your nearest Heat-N-Glo dealer, please call 612-890-8367.

This product is covered by one or more of the following patents: (United States) 4,112,913; 4,408,594; 4,422,426; 4,424,792; 4,520,791; 4,793,322; 4,852,548; 4,875,464; 5,000,162; 5,016,609; 5,076,254 5,191,877; 5,218,953; 5,328,356; 5,429,495; 5,452,708; 5,542,407; 5,613,487; (Australia) 543790; 586383; (Canada) 1,123,296; 1,297,746; 2,195,264; (Mexico) 97-0457; (New Zealand) 200265; or other U.S. and foreign patents pending.

402-982-A 11/98

SAFETY AND WARNING INFORMATION



READ and **UNDERSTAND** all instructions carefully before starting the installation. **FAILURE TO FOLLOW** these installation instructions may result in a possible fire hazard and will void the warranty.



Prior to the first firing of the fireplace, **READ** the Using Your Fireplace section of the *Owners Guide*.



DO NOT USE this appliance if any part has been under water. Immediately **CALL** a qualified service technician to inspect the unit and to replace any part of the control system and any gas control which has been underwater.



THIS UNIT IS NOT FOR USE WITH SOLID FUEL.



Installation and repair should be **PERFORMED** by a qualified service person. The appliance and venting system should be **INSPECTED** before initial use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is **IMPERATIVE** that the unit's control compartment, burners, and circulating air passageways **BE KEPT CLEAN** to provide for adequate combustion and ventilation air.



Always **KEEP** the appliance clear and free from combustible materials, gasoline, and other flammable vapors and liquids.



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 operations.



Due to the high temperature, the appliance should be **LOCATED** out of traffic areas and away from furniture and draperies. Clothing or flammable material **SHOULD NOT BE PLACED** on or near the appliance.



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.



These units **MUST** use one of the vent systems described in the Installing the Fireplace section of the *Installers Guide*. **NO OTHER** vent systems or components **MAY BE USED**.



This gas fireplace and vent assembly **MUST** be vented directly to the outside and **MUST NEVER** be attached to a chimney serving a separate solid fuel burning appliance. Each gas appliance **MUST USE** a separate vent system. Common vent systems are **PROHIBITED**.



INSPECT the external vent cap on a regular basis to make sure that no debris is interfering with the air flow.



The glass door assembly **MUST** be in place and sealed, and the trim door assembly **MUST** be in place on the fireplace before the unit can be placed into safe operation.



DO NOT OPERATE this appliance with the glass door removed, cracked, or broken. Replacement of the glass door should be performed by a licensed or qualified service person. **DO NOT** strike or slam the glass door.



The glass door assembly **SHALL ONLY** be replaced as a complete unit, as supplied by the gas fireplace manufacturer. **NO SUBSTITUTE** material may be used.



DO NOT USE abrasive cleaners on the glass door assembly. **DO NOT ATTEMPT** to clean the glass door when it is hot.



Turn off the gas before servicing this appliance. It is recommended that a qualified service technician perform an appliance check-up at the beginning of each heating season.



Any safety screen or guard removed for servicing must be replaced before operating this appliance.

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1

Approvals and Regulations

Approval Listings and Codes

Appliance Certification

The Heat-N-Glo gas stove models discussed in this *Installers Guide* have been tested to certification standards and listed by the applicable laboratories.

MODEL	LABORATORY	TYPE	CERTIFICATION STANDARD
Townsend I & II	Underwriters Laboratories	Vented Gas Fireplace Heater	ANSI Z21.88• CSA2.33

Installation Codes

Installation must conform to local codes. In the absence of local codes installation must conform with the current National Fuel Gas Code ANSI Z223.1 (in the United States) or with the current installation code CAN/CGA - B149 (in Canada).

The appliance when installed must be electrically grounded in accordance with local codes; in absence of local codes, with the current National Electric Code ANSI/ NFPA NO. 70 (in the United States) or with the current CSA C22.1 Canadian Electric Code (in Canada).

High Altitude Installations

These units are tested and approved for elevations from 0-2000 feet. (In the United States) and 0-4500 feet (in Canada).

When installing this unit at an elevation above 2000 feet, (in United States) it may be necessary to decrease the input rating by changing the existing burner orifice to a smaller size. Input should be reduced 4 percent for each 1000 feet above sea level. Check with your local gas company for help in determining the proper orifice size.

When installing this unit at an elevation above 4500 feet (in Canada), check with local authorities.

Consult your local gas company for assistance in determining the proper orifice for location.

Introducing the Heat-N-Glo Direct Vent Gas Stoves

Heat-N-Glo direct vent gas stoves are designed to operate with all combustion air siphoned from outside of the building and all exhaust gases expelled to the outside.

The information contained in this *Installers Guide*, unless noted otherwise, applies to all models and gas control systems.

Gas stove diagrams, including the dimensions, are shown in this section.

Pre-installation Preparation

This gas stove and its components are tested and safe when installed in accordance with this *Installers Guide*. Report to your dealer any parts damaged in shipment, particularly the condition of the glass. **Do not install any unit with damaged, incomplete, or substitute parts.**

The vent system components and trim doors are shipped in separate packages. The gas logs are packaged separately and must be field installed. **Read all of the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit. Failure to follow these instructions will void the owner's warranty and may present a fire hazard.**

The Heat-N-Glo Warranty will be voided by, and Heat-N-Glo disclaims any responsibility for, the following actions:

- Installation of any damaged stove or vent system component.
- Modification of the stove or vent system.
- Installation other than as instructed by Heat-N-Glo.
- Improper positioning of the gas logs or the glass door.
- Installation and/or use of any component part not manufactured and approved by Heat-N-Glo, not withstanding any independent testing laboratory or other party approval of such component part or accessory.

ANY SUCH ACTION MAY POSSIBLY CAUSE A FIRE HAZARD.

2

Getting Started

When planning a stove installation, it's necessary to determine:

- Where the unit is to be installed.
- The vent system configuration to be used.
- Gas supply piping.
- Electrical wiring.
- Framing and finishing details.
- Whether optional accessories—devices such as a fan, wall switch, or remote control—are desired.

If the stove is to be installed on carpeting or tile, or on any combustible material other than wood flooring, the stove should be installed on a metal or wood panel that extends the full width and depth of the stove.

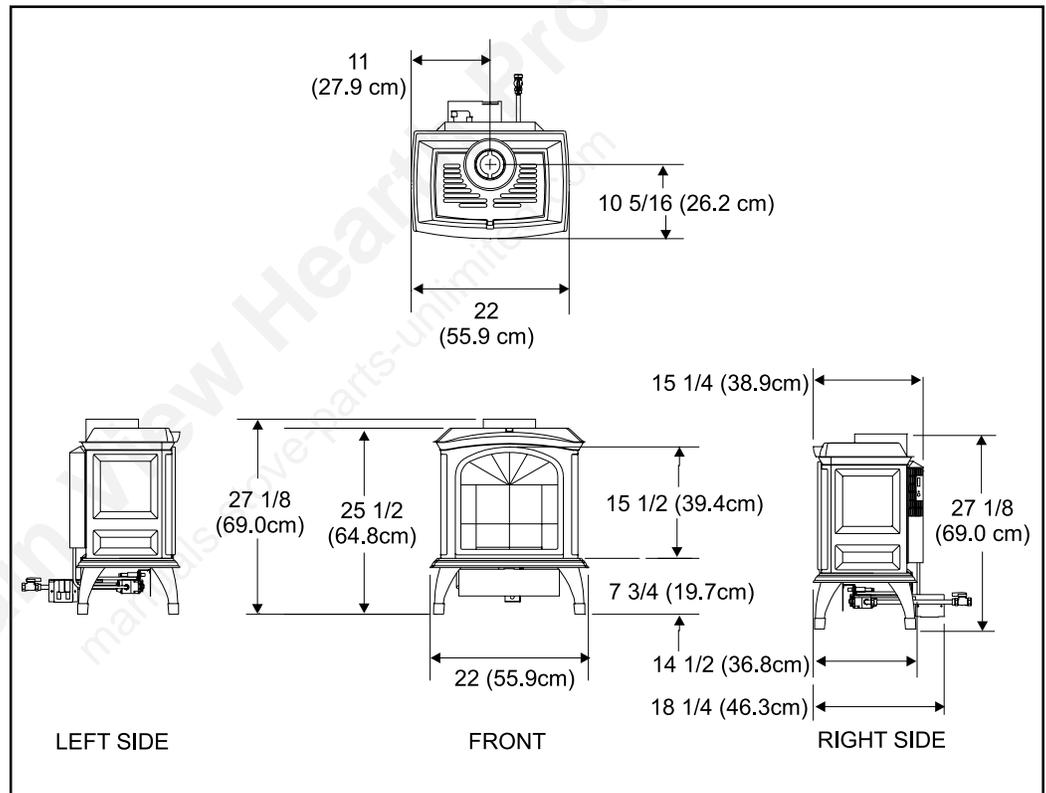


Figure 1. Diagram of the TOWNSEND-I

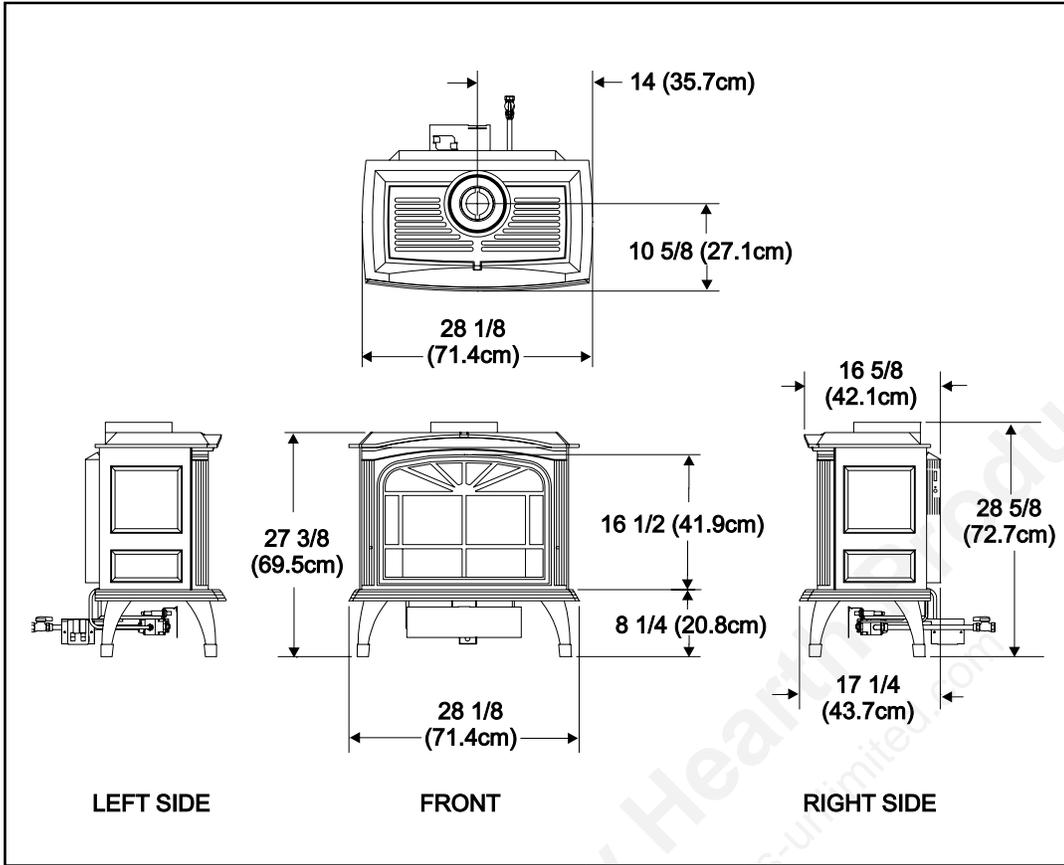


Figure 2. Diagram of the TOWNSEND-II

3

Installing the Stove

Step 1 Locating the Stove

The diagram below shows space and clearance requirements for locating the stove within a room.

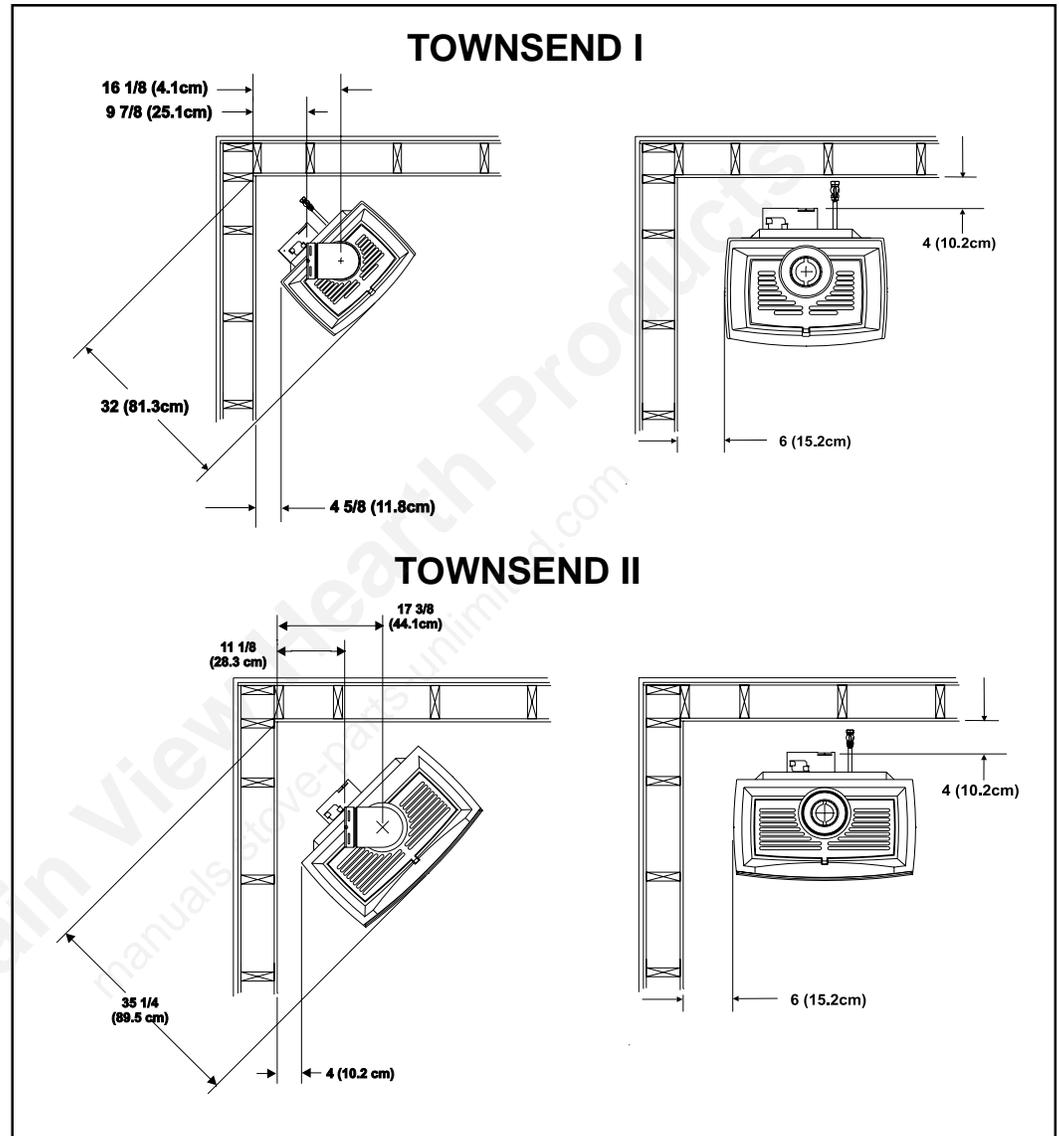


Figure 3. Stove Dimensions, Locations, and Space Requirements

Clearance Requirements

Minimum Clearances from the Fireplace to Combustible Materials				
Glass Front	Floor	Rear	Sides of Fireplace	Top of Fireplace
36 inches (914mm)	0	4 inches (100mm)	6 inches (150mm)	55 inches (134cm)

The minimum clearance to a perpendicular wall extending past the face of the fireplace is 6 inches (150mm).

The back of the fireplace may **NOT** be recessed into combustible construction.

Minimum Clearances from the Vent Pipe to Combustible Materials						
For Horizontal Sections			For Vertical Sections	At Wall Firestops		
Top	Bottom	Sides	1 inch (25mm)	Top	Bottom	Sides
3 inches (75mm)	1 inch (25mm)	1 inch (25mm)		2 1/2 inches (63.7mm)	1/2 inch (13mm)	1 inch (25mm)

For minimum clearances, see the direct vent termination clearance diagrams on pages 21 and 23 in this manual.

Step 2 Setting up the Stove

Removal of the cast front surround:

1. Remove the two small bolts from underneath the front of the cast bottom. These bolts can be discarded.
2. Remove the screw from underneath the front of the grille.
3. The cast front surround can now be removed by tilting its top towards the front and lifting it out of the stove.
4. When the cast front surround is replaced, it can be held in place with just the one screw in the top, underneath the grille.

Removal of glass:

1. Remove the Cast Front Surround.
2. For TOWNSEND-I: Remove the six screws securing the glass and remove the glass.
3. For TOWNSEND-II: Remove the four screws located at the top, tilt the glass slightly toward you and pull up and away from the unit.

To replace the glass reverse these steps.

Step 3 Installing the Vent System

A. Vent System Approvals

This model is approved for 4" / 6 5/8" SL D-Series vent pipe components and terminations. Approved vent systems components are labeled for identification. **NO OTHER VENT SYSTEMS OR COMPONENTS MAY BE USED.** Detailed installation instructions are included with each vent termination kit and should be used in conjunction with this manual.



WARNING:

A minimum 3 foot length of straight vent pipe MUST be attached to the unit's starting collars for all vent systems.

Identifying Vent Components

The vent systems installed on this gas stove may include one, two, or three 90° elbow assemblies. The relationships of vertical rise to horizontal run in vent configurations using 90° elbows **MUST BE** strictly adhered to. The rise to run relationships are shown in the vent drawings and tables. Refer to the diagrams on the next several pages.

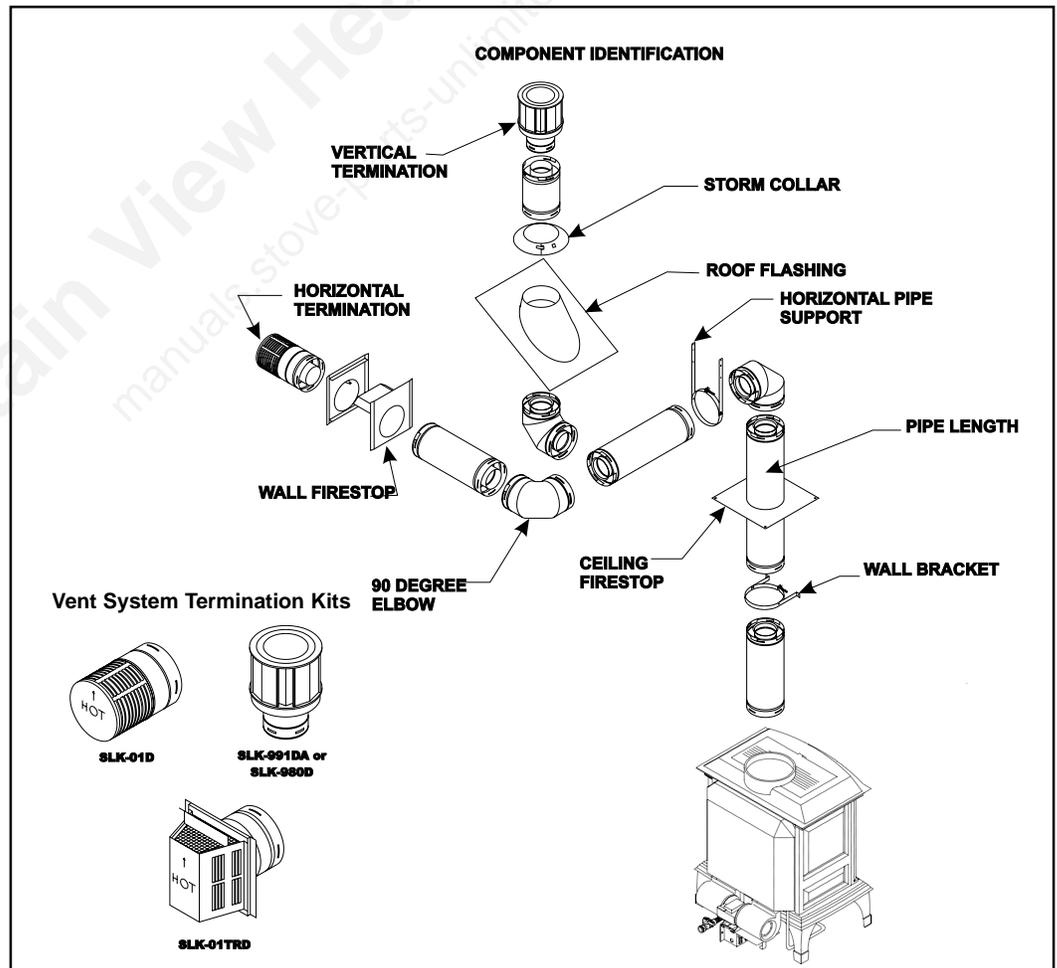


Figure 4. Vent Components and Terminations

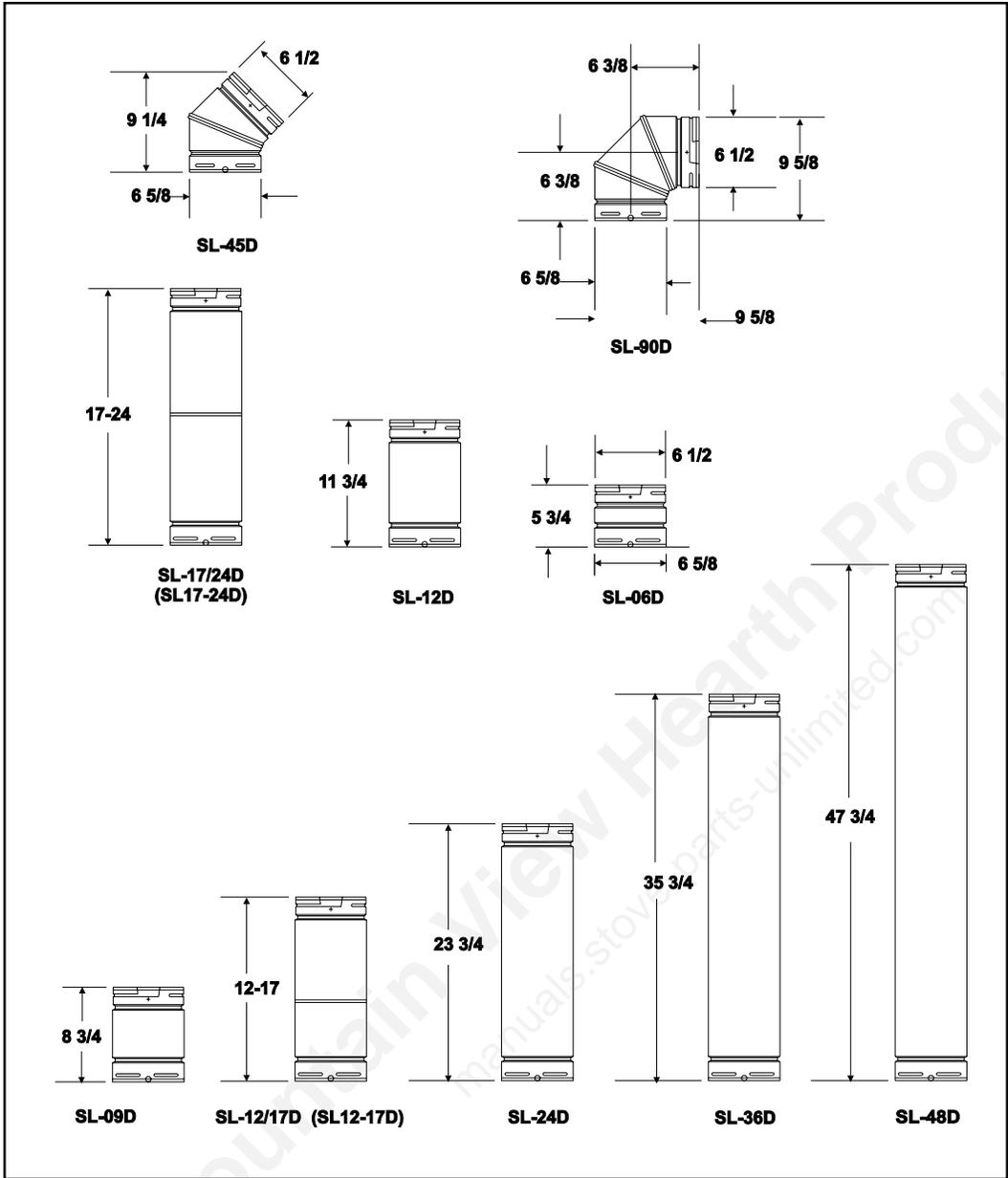


Figure 5. SL D-Series Direct Vent Component Specifications (4-inch inner pipe/6 5/8-inch outer pipe)

Straight Vertical Vent System

When a vertical run of 12 feet and higher is attached directly to the top of the stoves, further baffling is necessary to maintain high efficiency. A round baffle with two tabs on each side is included in the manual bag assembly. To install the round baffle follow these steps:

1. Remove the front of the casting. Refer to cast front removal on page 6.
2. Remove the glass assembly. Refer to glass removal on page 6.
3. Remove logs and set aside.
4. Disassemble the square baffle by unfastening four screws located inside top of the firebox. See Figure 6.
5. Unfasten the two screws on the existing round baffle, and replace it with the new round baffle. Note: The new round baffle is bigger than the existing round baffle already on the unit.
6. Re-install the square baffle removed in Step 4.

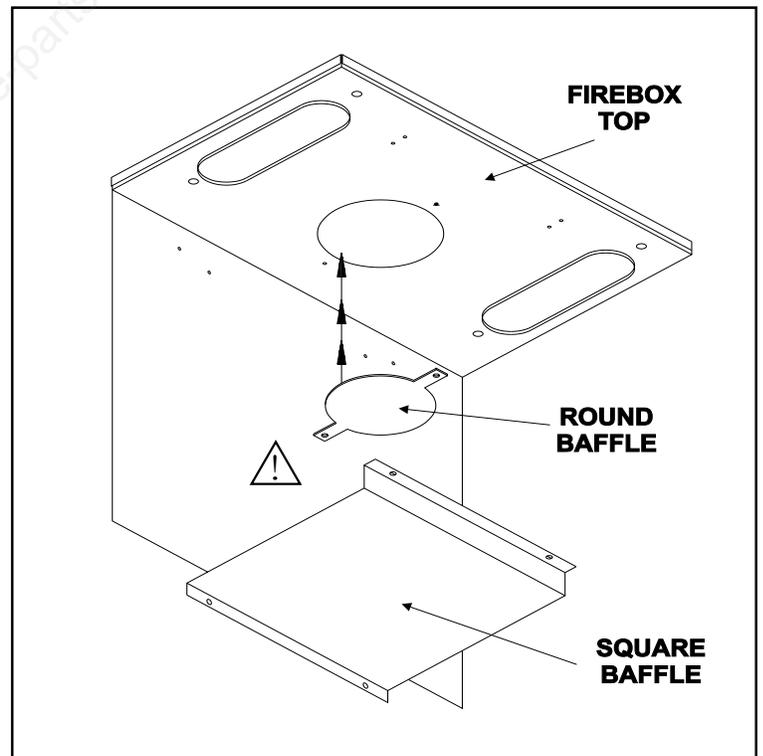


Figure 6

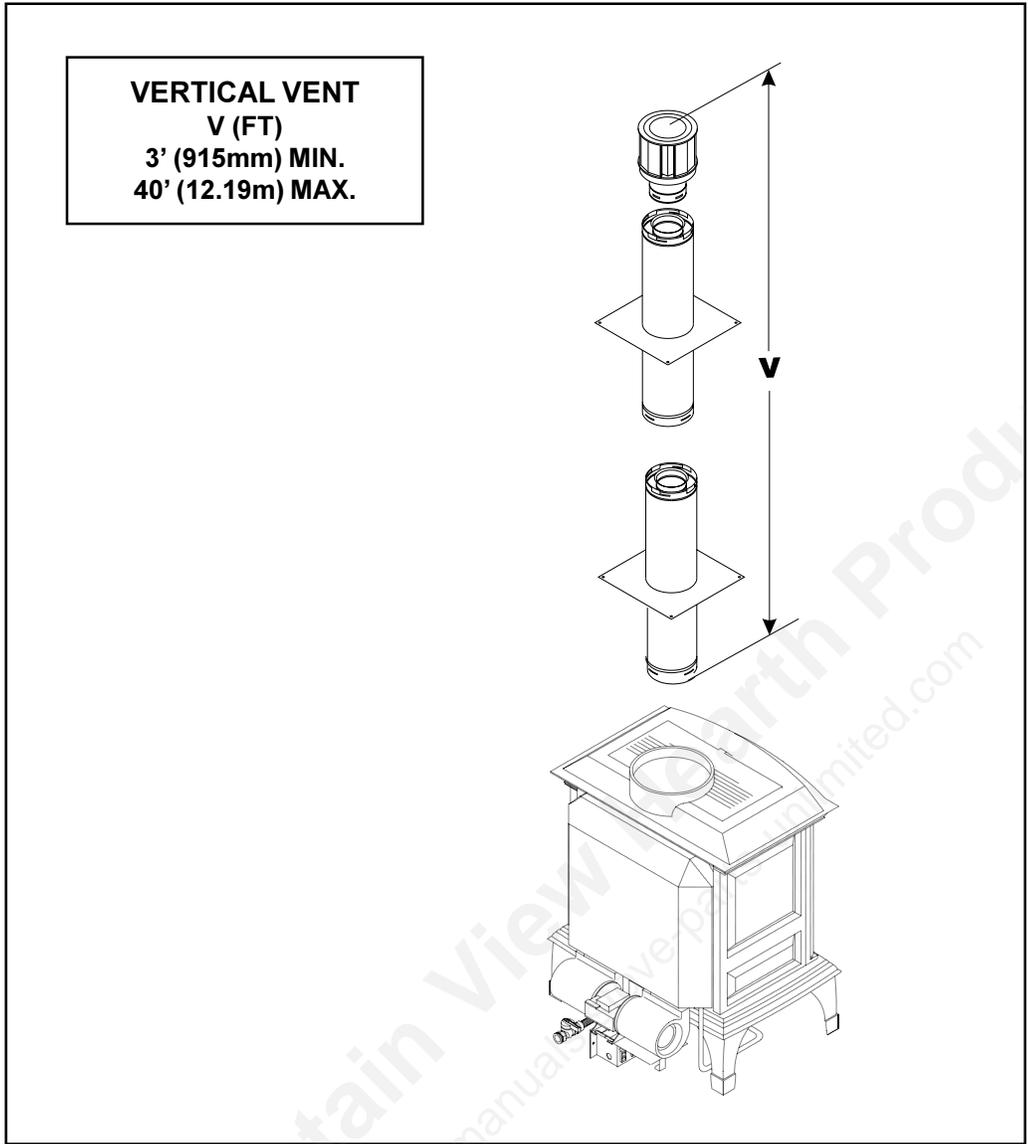
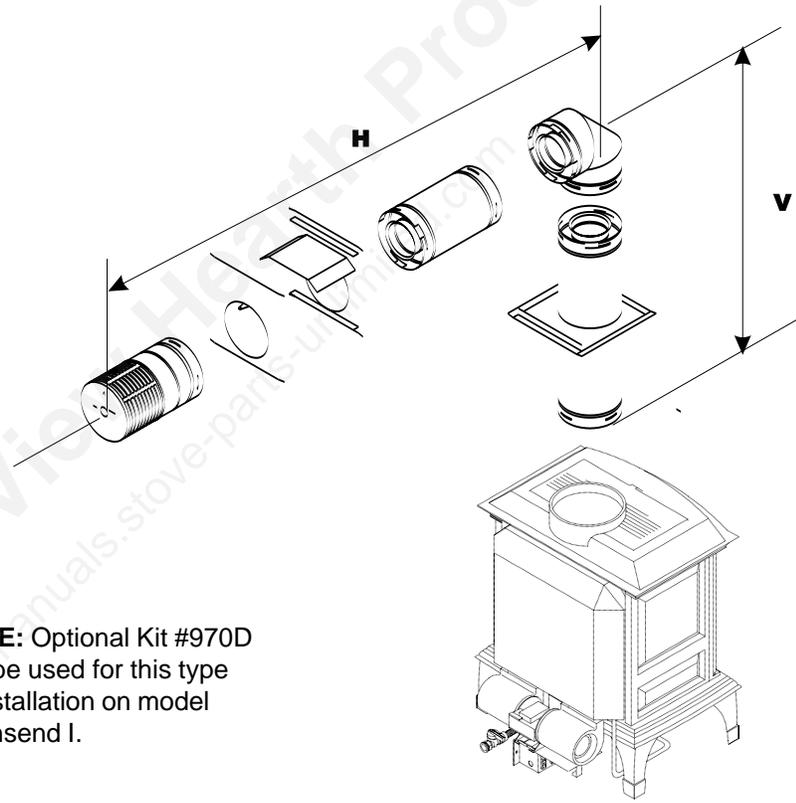


Figure 7. Straight Vertical Vent System

TOWNSEND I VENTING WITH ONE (1) 90° ELBOW	
V (FT)	H (FT)
2' MIN.(610mm)	2' MAX.(610mm)
3' MIN.(914mm)	3' MAX.(914mm)
4' MIN.(1.2m)	4' MAX.(1.2m)
18' MIN.(5.4m)	18' MAX.(5.4m)
V + H = 40' MAX.(12.19m)	
H = 18' MAX.(5.4m)	

TOWNSEND II VENTING WITH ONE (1) 90° ELBOW	
V (FT)	H (FT)
3' MIN.(610mm)	2' MAX.(610mm)
4' MIN.(1.2m)	2.5' MAX.(1762mm)
18' MIN.(5.4m)	12' MAX.(3.66m)
V + H = 40' MAX.(12.19m)	
H = 12' MAX.(3.66m)	



NOTE: Optional Kit #970D can be used for this type of installation on model Townsend I.

Figure 8. Vent System with One 90° Elbow

TOWNSEND I
VENTING WITH TWO (2) 90° ELBOWS

V (FT)	H (FT)
3' MIN.(914mm)	3' MAX.(914mm)
4' MIN.(1.2m)	4' MAX.(1.2m)
18' MIN.(5.4m)	18' MAX.(5.4m)

$V + V_1 + H = 40' \text{ MAX.}(12.19\text{m})$
 $H = 18' \text{ MAX.}(5.4\text{m})$

TOWNSEND II
VENTING WITH TWO (2) 90° ELBOWS

V (FT)	H (FT)
3' MIN.(610mm)	2' MAX.(610mm)
4' MIN.(1.2m)	2.5' MAX.(1762mm)
18' MIN.(5.4m)	12' MAX.(3.66m)

$V + V_1 + H = 40' \text{ MAX.}(12.19\text{m})$
 $H = 12' \text{ MAX.}(3.66\text{m})$

TOWNSEND I and TOWNSEND II
VENTING WITH TWO (2) 90° ELBOWS

V (FT)	H (FT)	V₁ (FT)
.5' MIN. (152mm)	4' MAX. (1.2m)	8' MIN. (2.4m)

$V + V_1 = 36' \text{ MAX.}(10.97\text{m})$

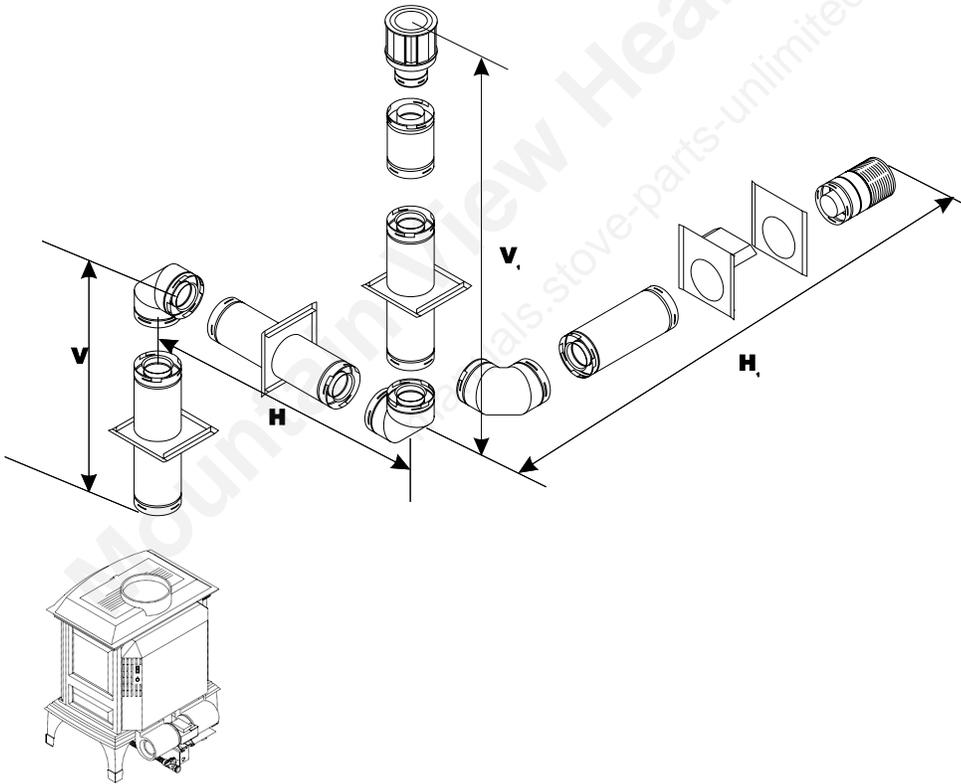


Figure 9. Vent System with Two 90° Elbows

TOWNSEND I
VENTING WITH THREE (3) 90° ELBOWS

V (FT)	H (FT)
3' MIN.(914mm)	3' MAX.(914mm)
4' MIN.(1.2m)	4' MAX.(1.2m)
18' MIN.(5.4m)	18' MAX.(5.4m)
$V+V_1+H+H_1 = 40'$ MAX.(12.19m)	
$H+H_1 = 18'$ MAX.(5.4m)	

TOWNSEND II
VENTING WITH THREE (3) 90° ELBOWS

V (FT)	H (FT)
3' MIN.(610mm)	2' MAX.(610mm)
4' MIN.(1.2m)	2.5' MAX.(1762mm)
18' MIN.(5.4m)	12' MAX.(3.66m)
$V+V_1+H+H_1 = 40'$ MAX.(12.19m)	
$H+H_1 = 12'$ MAX.(3.66m)	

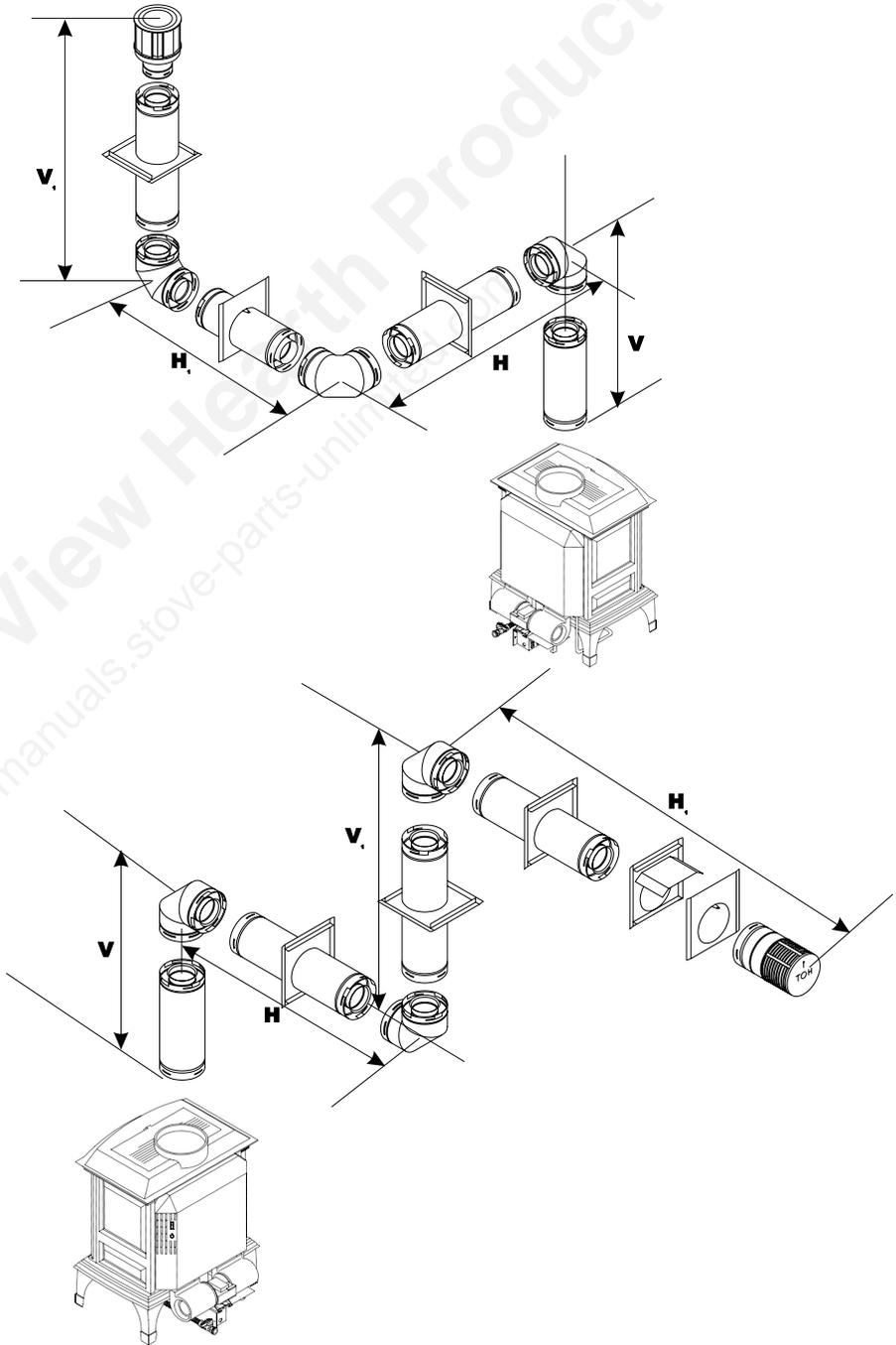


Figure 10. Vent System with three 90° elbows

B. Installing Vent Components

Before starting installation of vent kits, the installer should read the Gas Stove Instructions and the Vent Kit Instructions to ensure that the proper system has been selected for the installation.

Determine the exact position of the stove so the vent pipe is centered (if possible) between two building framing members. This will avoid any extra framing. Using a level, make sure the stove is properly positioned and squared. Minimum clearances to walls and ceilings must be maintained.

Vent terminals should not be recessed into a wall.

Consult your local Building Code Regulations before beginning the installation.



WARNING
THIS GAS STOVE AND VENT ASSEMBLY MUST BE VENTED DIRECTLY TO THE OUTSIDE AND MUST NEVER BE ATTACHED TO A CHIMNEY SERVING A SEPARATE SOLID FUEL BURNING APPLIANCE. EACH GAS APPLIANCE MUST USE A SEPARATE VENT SYSTEM- COMMON VENT SYSTEMS ARE PROHIBITED.

1. Attach the First Vent Component to the Starting Collars

To attach the first vent component to the starting collars of the fireplace:

- Apply a 3/8 inch (9.5mm) bead of stove cement around the 4 inch (100mm) fireplace starting collar.
- Make sure that the fireplace rope gasket supplied with the fireplace seals between the first vent component and the outer fireplace wrap.
- Lock the vent components into place by sliding the concentric pipe sections with four (4) equally spaced interior beads into the fireplace collar or previously installed component end with four (4) equally spaced indented sections.
- When the internal beads of each outer pipe line up, rotate the pipe section clockwise about one-quarter (1/4) turn. The vent pipe is now locked together.

1. Apply the stove cement.
2. Line up the internal beads and rotate the pipe sections clockwise until locked.
3. Lock the vent components into place.

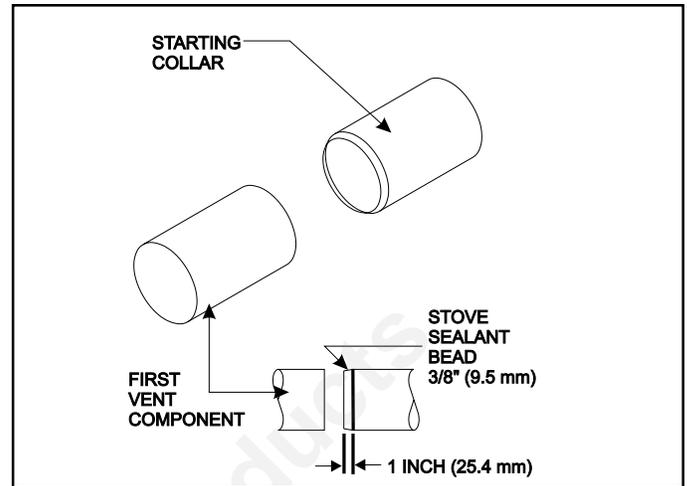


Figure 11. Attaching the First Vent Component to the Starting Collars



WARNING

A 3/8 INCH (9.5 mm) BEAD OF STOVE CEMENT MUST BE PLACED AROUND THE STOVE STARTING COLLAR BEFORE ATTACHING THE FIRST VENT COMPONENT. FAILURE TO SEAL THIS JOINT MAY CAUSE THE STOVE TO OPERATE IMPROPERLY. SEE THE DIAGRAM .

2. Continue Adding Vent Components

To continue adding vent components in accordance with the pre-planned vent system configuration:

- Ensure that each succeeding vent component is securely fitted and locked into the preceding component in the vent system.

90° elbows may be installed and rotated to any point around the preceding component's vertical axis. If an elbow does not end up in a locked position with the preceding component, attach with a minimum of three (3) sheet metal screws.

Continue adding vent components, locking each succeeding component into place.

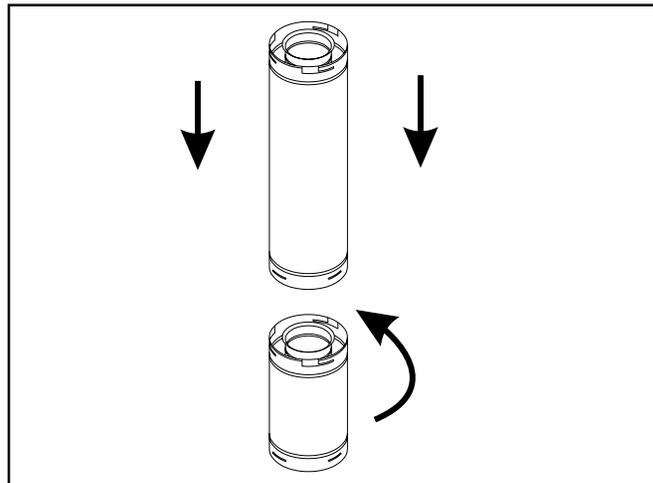


Figure 12. Adding Venting Components

3. Install Support Brackets

For Horizontal Runs - The vent system must be supported every 5 feet (1.5m) of horizontal run by a horizontal pipe support.

To install support brackets for horizontal runs:

- Place the pipe supports around the vent pipe.
- Nail the pipe supports to the framing members.

For Vertical Runs - The vent system must be supported every 8 feet (2.4m) above the stove vent outlet by wall brackets.

To install support brackets for vertical runs:

- Attach wall brackets to the vent pipe and secure the wall bracket to the framing members with nails or screws.

Use wall brackets to support vertical runs every 8 feet (2.4m) above the stove vent outlet.

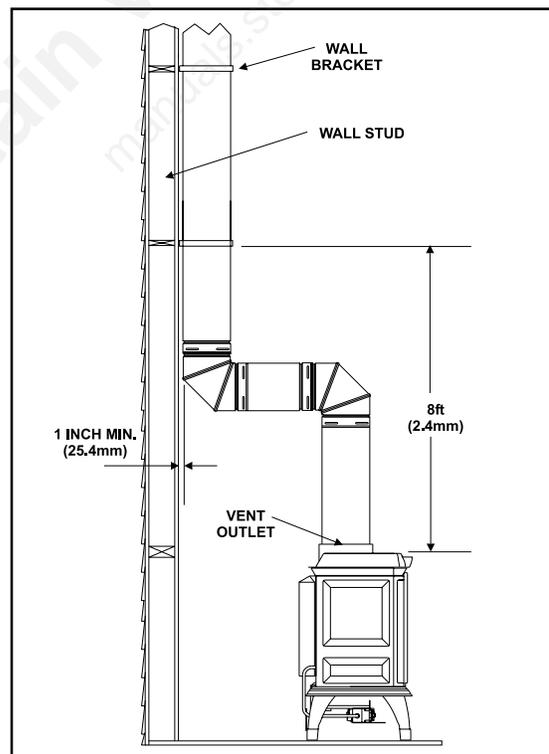


Figure 13. Installing Support Brackets

4. Install Firestops

For Horizontal Runs - Firestops are **REQUIRED** on both sides of a combustible wall through which the vent passes.

NOTE

Model SLK-01TRD does not need an exterior firestop on an exterior combustible wall.

To install firestops for horizontal runs that pass through either interior or exterior walls:

- Cut a 10 in. x 10.in (254mm X 254mm) hole through the wall. The center of the hole is 1-inch (25.4mm) above the center of the horizontal vent pipe.
- Position the firestops on both sides of the hole previously cut and secure the firestops with nails or screws.
- The heat shields of the firestops **MUST BE** placed towards the top of the hole.
- Continue the vent run through the firestops.

1. Cut the 10 in. x 10 in. (254 x 254mm) hole.

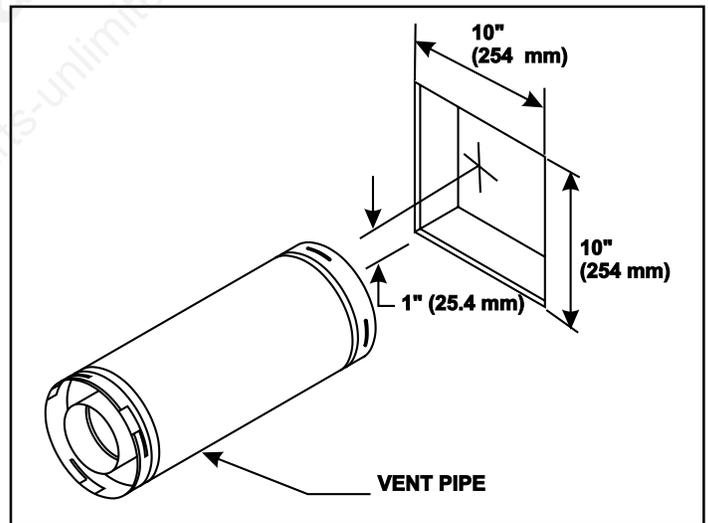


Figure 14. 10 in. X 10 in. Hole and Vent Pipe

1. Position the firestops.
2. Place the heat shield to the top.
3. Continue the vent run.

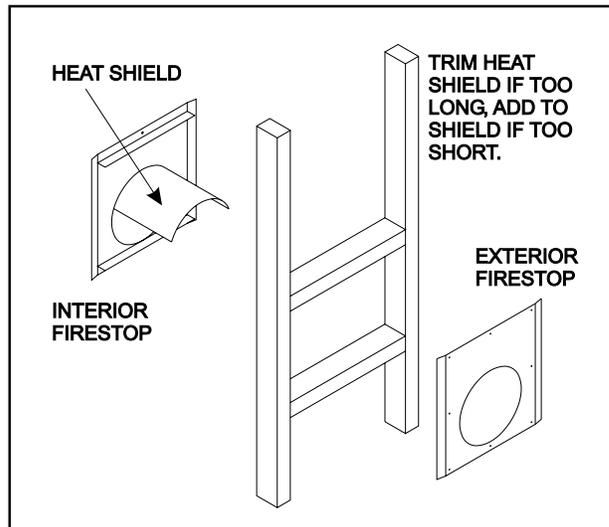


Figure 15. Heat Shield, Interior and Exterior Firestops

For Vertical Runs - One ceiling firestop is **REQUIRED** at the hole in each ceiling through which the vent passes.

To install firestops for vertical runs that pass through ceilings:

- Position a plumb bob directly over the center of the vertical vent component.
- Mark the ceiling to establish the centerpoint of the vent.
- Drill a hole or drive a nail through this centerpoint.
- Check the floor above for any obstructions, such as wiring or plumbing runs.
- Reposition the stove and vent system, if necessary, to accommodate the ceiling joists and/or obstructions.
- Cut an 10" x 10" (254mm X 254mm) hole through the ceiling, using the centerpoint previously marked.
- Frame the hole with framing lumber the same size as the ceiling joists.

1. Cut the 10" x 10" hole.
2. Add the new framing members.

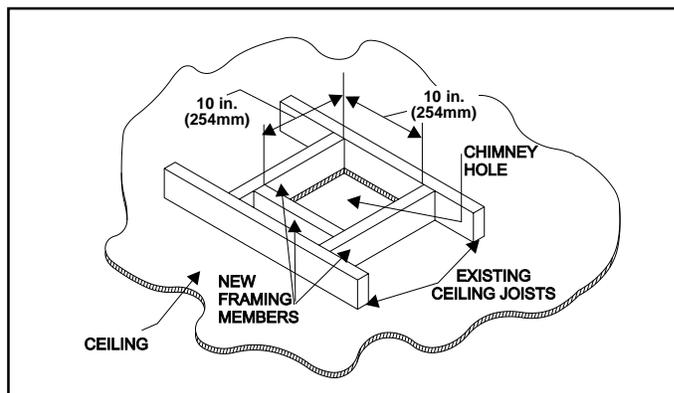


Figure 16. 10" x 10" Hole and New Framing Members

This shows a ceiling installation.

If the area above the ceiling is **NOT** an attic, position and secure the ceiling firestop on the ceiling side of the previously cut and framed hole.

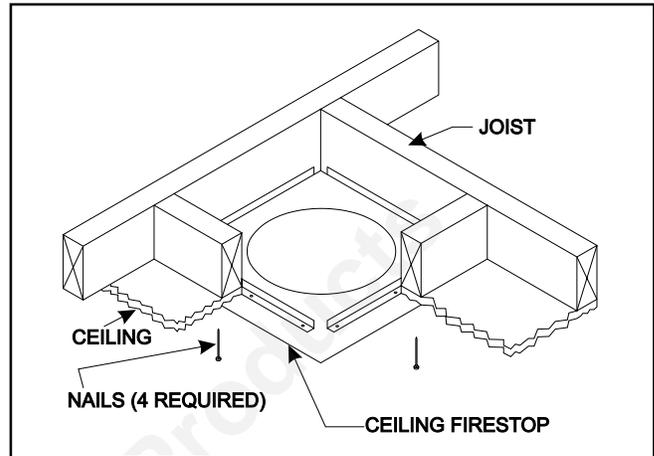


Figure 17. Ceiling Firestop (Ceiling Side)

If the area above the ceiling **IS** an attic, position and secure the firestop on top of the previously framed hole.

This shows an attic installation.

1. Keep insulation away from the vent pipe at least 1 inch (25 mm).

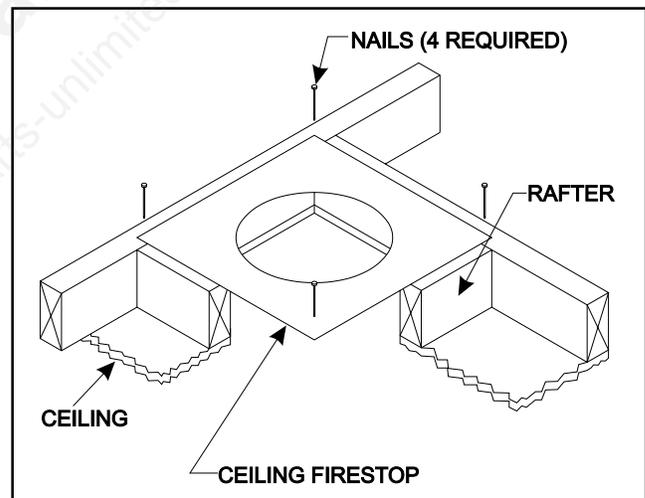


Figure 18. Attic Firestop

C. Vent Termination

For Horizontal Terminations - To attach and secure the termination to the last section of horizontal vent:

- Rotate and interlock the ends as described at the beginning of the Installing Vent Components section.
- The termination kit should pass through the wall firestops from the exterior of the building.
- Adjust the termination cap to its final exterior position on the building.



WARNING: THE TERMINATION CAP MUST BE POSITIONED SO THAT THE ARROW IS POINTING UP.

For roundcap termination kits:

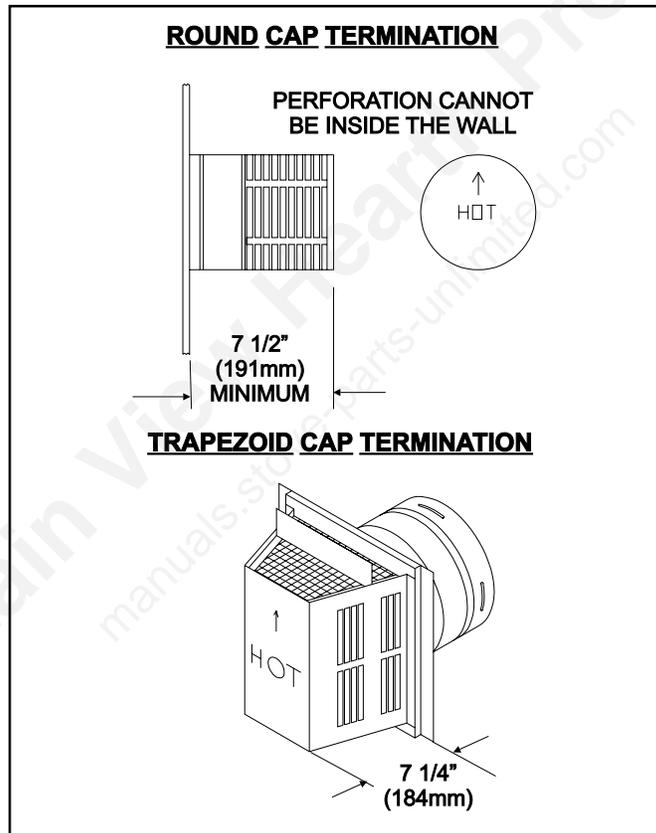
- Use the exterior pipelock hole provided on the round flange of the wall firestop to secure the vent pipe in place.

For trapezoidal cap termination kits:

- Using screws, secure the cap to the exterior wall through the flanges built into the cap.
- Use a high-temperature sealant or fiberglass rope gasket to seal between the vent pipe and exterior firestop.

For round cap termination:

1. Secure the vent pipe, using the exterior pipelock hole on the round flange of the wall firestop.



For trapezoidal termination:

1. Screw the cap to the exterior wall through the flanges in the cap.
2. Seal the joint between the pipe and the exterior firestop.

Figure 19. Round & Trapezoid Termination Caps



WARNING: THE BOTTOM OF THE VENT TERMINATION CAP MUST BE A MINIMUM OF 12 INCHES (305MM) ABOVE GROUND LEVEL (GRADE). THE TOP OF THE CAP MUST BE A MINIMUM OF 18 INCHES (457MM) BELOW COMBUSTIBLE MATERIAL, SUCH AS A DECK, AND THE SIDE OF THE CAP MUST BE A MINIMUM OF 6 INCHES (152MM) AWAY FROM A PARALLEL OUTSIDE WALL. VENTING TERMINALS SHALL NOT BE RECESSED INTO A WALL OR SIDING. SEE THE FOLLOWING DIAGRAM FOR VENT TERMINATION CLEARANCES.

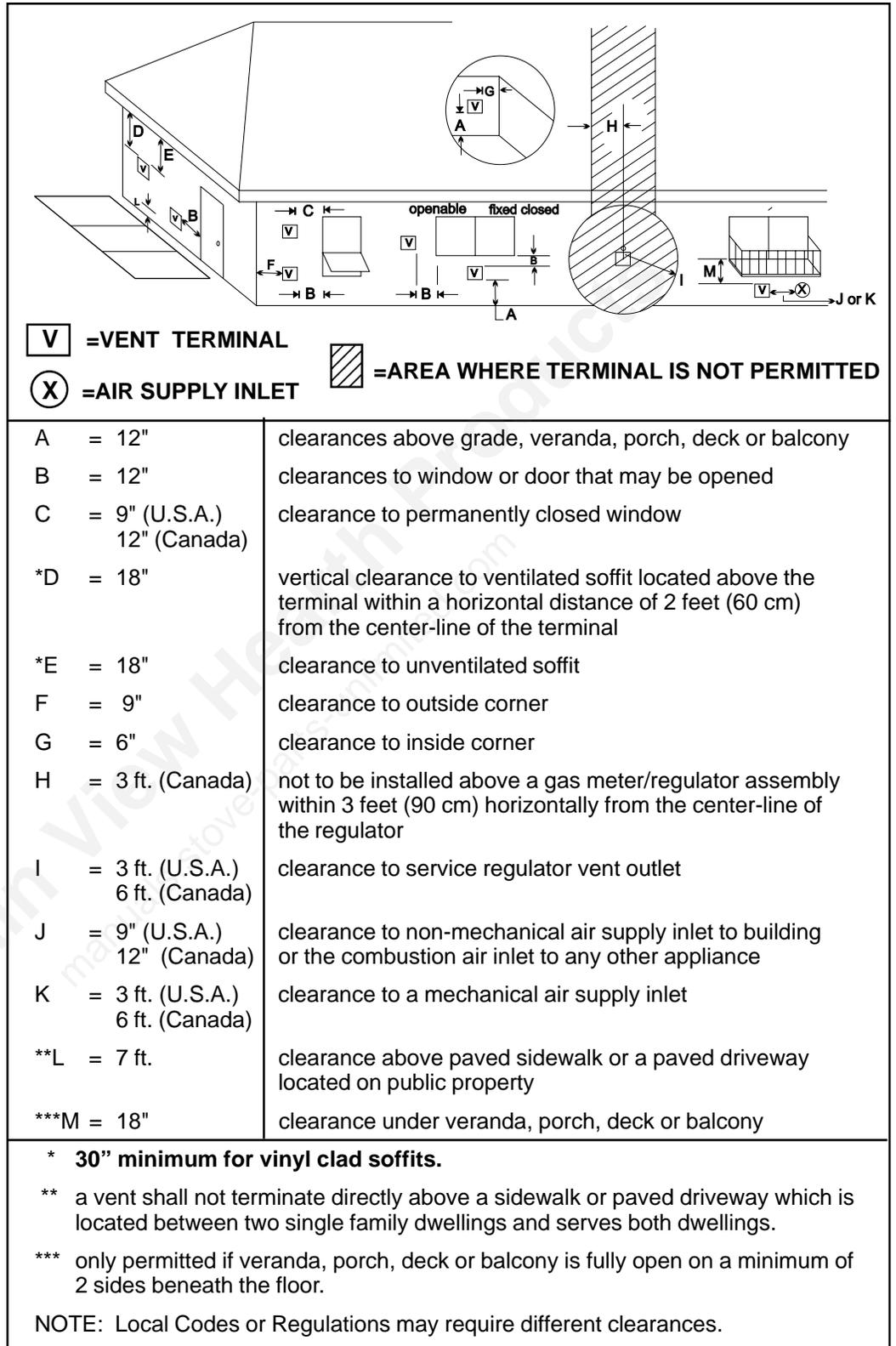


Figure 20. Vent Termination Minimum Clearances

CAUTION

IF EXTERIOR WALLS ARE FINISHED WITH VINYL SIDING, IT IS NECESSARY TO INSTALL THE VINYL PROTECTOR KIT (VPK-DV) TO THE TOP OF THE EXTERIOR FIRESTOP (FOR ALL ROUND TERMINATION CAPS).

For Vertical Terminations - To locate the vent and install the vent sections:

- Locate and mark the vent centerpoint on the underside of the roof, and drive a nail through the centerpoint.
- Make the outline of the roof hole around the centerpoint nail.
- The size of the roof hole framing dimensions depend on the pitch of the roof. There **MUST BE** a 1-inch (25.4 mm) clearance from the vertical vent pipe to combustible materials.
- Mark the roof hole accordingly.
- Cover the opening of the installed vent pipes.
- Cut and frame the roof hole.
- Use framing lumber the same size as the roof rafters and install the frame securely. Flashing anchored to the frame must withstand heavy winds.
- Continue to install concentric vent sections up through the roof hole (for inside vent installations) or up past the roof line until you reach the appropriate distance above the roof (for outside terminations).



WARNING
MAJOR U.S. BUILDING CODES
SPECIFY MINIMUM CHIMNEY AND/OR
VENT HEIGHT ABOVE THE ROOF TOP.
THESE MINIMUM HEIGHTS ARE
NECESSARY IN THE INTEREST OF
SAFETY. SEE THE FOLLOWING
DIAGRAM FOR MINIMUM HEIGHTS,
PROVIDED THE TERMINATION CAP IS
AT LEAST TWO (2) FEET FROM A
VERTICAL WALL AND 2- FEET BELOW A
HORIZONTAL OVERHANG.

NOTE

This also pertains to vertical vent systems installed on the outside of the building.

To seal the roof hole, and to divert rain and snow from the vent system:

- Attach a flashing to the roof using nails, and use a non-hardening mastic around the edges of the flashing base where it meets the roof.
- Attach a storm collar over the flashing joint to form a water-tight seal. Place non-hardening mastic around the joint, between the storm collar and the vertical pipe.
- Slide the termination cap over the end of the vent pipe and rotate the pipe clockwise 1/4 turn.

1. Attach the flashing and apply sealant around the edges of the flashing base.
2. Attach the storm collar over the flashing joint and apply sealant between the storm collar and vertical pipe.

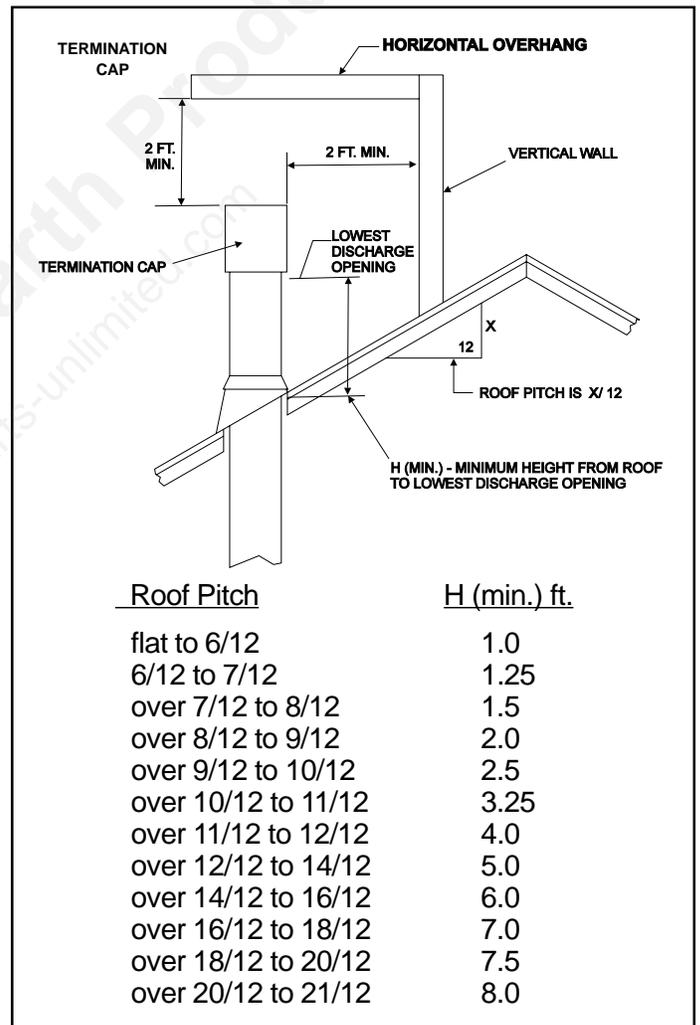


Figure 21. Minimum Height from Roof to Lowest Discharge Opening

Step 4 The Gas Control System



WARNING: THIS UNIT IS NOT FOR USE WITH SOLID FUEL.

Standing Pilot Ignition System

This system includes millivolt control valve, standing pilot, thermopile/thermocouple flame sensor, and piezo ignitor.



WARNING: 110-120 VAC MUST NEVER BE CONNECTED TO A CONTROL VALVE IN A MILLIVOLT SYSTEM.

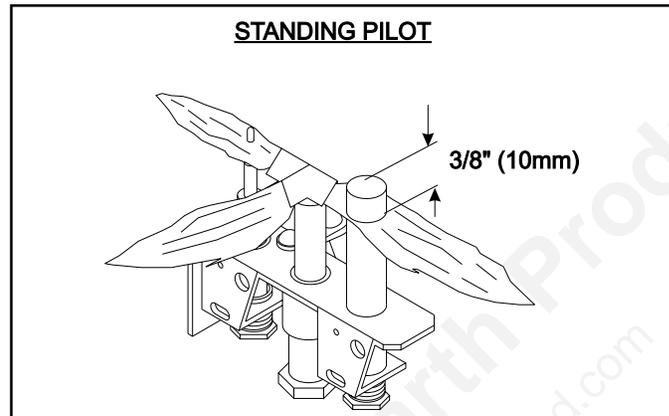


Figure 22. Gas Controls Systems

Step 5 The Gas Supply Line

NOTE: Have the gas supply line installed by a qualified service technician in accordance with all building regulations.

NOTE: Before the first firing of the stove, the gas supply line should be purged of any trapped air.

NOTE: Consult local building regulations to properly size the gas supply line leading to the 1/2 inch (13mm) hook-up at the unit.

This gas fireplace is designed to accept a 1/2 inch (13 mm) gas supply line.

To install the gas supply line:

- A listed 1/2 inch (13 mm) manual shut-off valve and a listed flexible gas connector are connected to the 1/2 inch (13 mm) inlet of the control valve.
- A 1/8 inch (3 mm) N.P.T. plugged tapping, accessible for test gauge connection, should be provided for in the gas supply line leading to the unit's shut-off valve.
- Locate the manual shut-off valve at the rear of the stove.
- Connect the gas supply line to the shut-off valve.
- When attaching the pipe, support the control so that the lines are not bent or torn.
- After the gas line installation is complete, use a soap solution to carefully check all gas connections for leaks.



WARNING: DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.

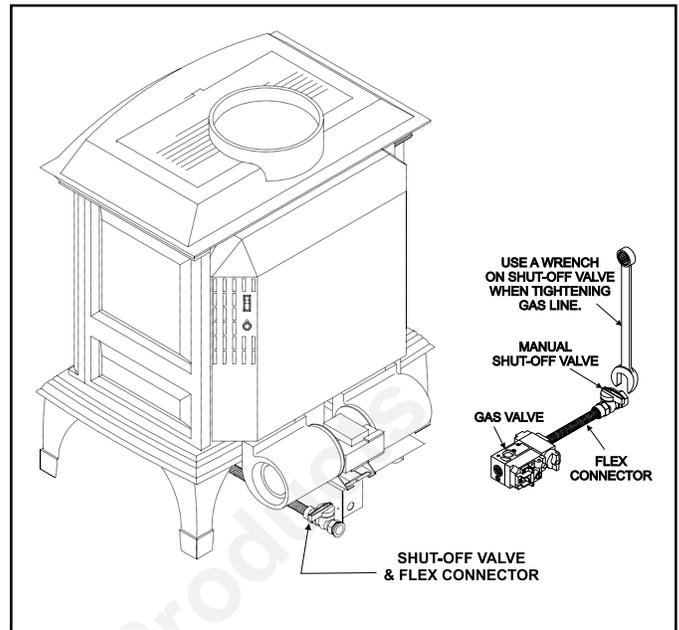


Figure 23 GAS SUPPLY CONNECTION

Step 6 Gas Pressure Requirements

Pressure requirements for Heat-N-Glo gas stoves are shown in the table below.

Pressure	Natural Gas	Propane
Minimum Inlet Pressure	5.0 inches w.c.	11.0 inches w.c.
Maximum Inlet Gas Pressure	14.0 inches w.c.	14.0 inches w.c.
Manifold Pressure	3.5 inches w.c.	10.0 inches w.c.

A one-eighth (1/8) inch (3 mm) N.P.T. plugged tapping is provided on the outlet side of the gas control for a test gauge connection to measure the manifold pressure. To measure inlet pressure, provisions must be made to attach a test gauge to a one-eighth (1/8) inch (3 mm) N.P.T. plugged tapping immediately upstream of the gas supply connection to the fireplace. On some models there may be a tap for the manifold and inlet pressure on the face of the valve. Use a small flat blade screwdriver to crack open the screw in the center of the tap. Position a rubber hose over the tap to obtain the pressure reading.

The fireplace and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressures in excess of one-half (1/2) psig (3.5 kPa).

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

Step 7 Wiring the Stove

NOTE: Electrical wiring must be installed by a competent electrician.

For Standing Pilot Ignition Wiring Appliance Requirements

- This appliance **DOES NOT** require 110-120 VAC to operate.



WARNING: DO NOT CONNECT 110-120 VAC TO THE GAS CONTROL VALVE OR THE APPLIANCE WILL MALFUNCTION AND THE VALVE WILL BE DESTROYED.

Optional Accessories

Optional fan and remote control kits require that 110-120 VAC be wired to the factory installed junction box before the stove is permanently installed.

Remote Wall Switch

Position the remote wall switch in the desired position on a wall. Run a maximum of 25 feet (7.8m) or less length of 18 A.W.G. minimum wire and connect it to the stove ON/OFF switch pigtails.



WARNING: DO NOT CONNECT 110-120 VAC TO THE REMOTE WALL SWITCH OR THE CONTROL VALVE WILL BE DESTROYED.

CAUTION

LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING.

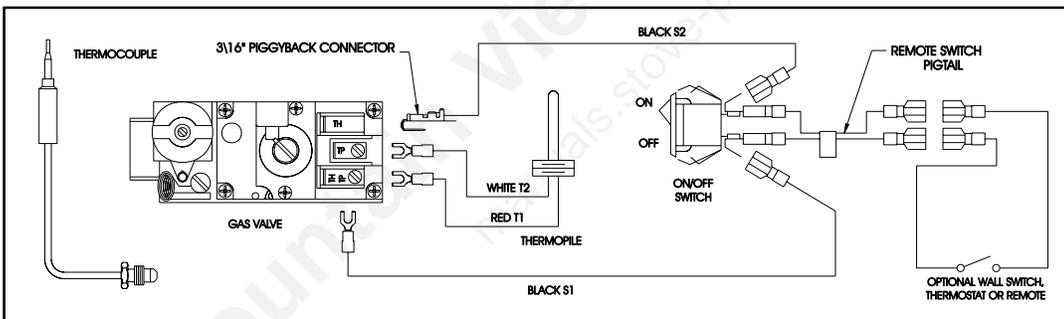


Figure 24. Standing Pilot Ignition Wiring Diagram

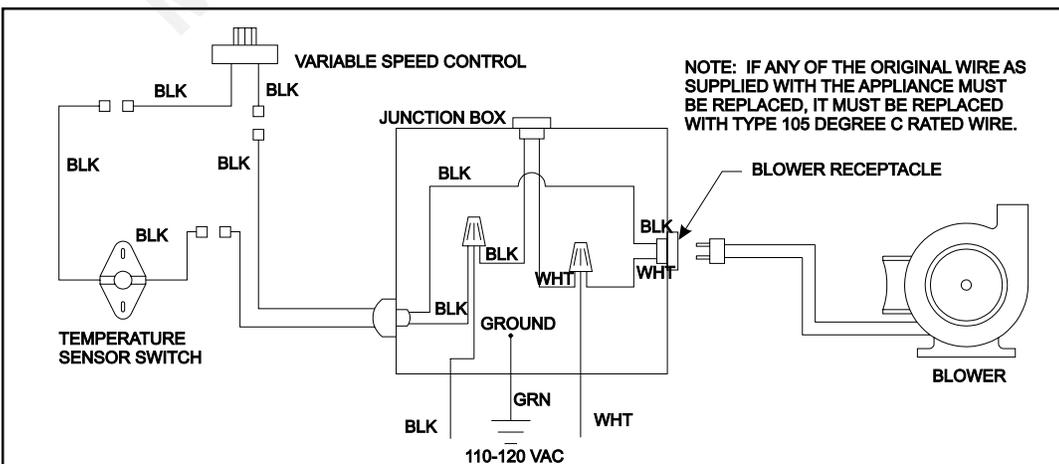


Figure 25. Fan Wiring Diagram (when fitted)

Step 8 Finishing

Do not install combustible mantel or other combustible projection closer than 55 inches minimum above the top of the unit.

HEARTH EXTENSION

While a hearth extension may be desirable for aesthetic reasons, it is not required for gas fireplace heaters per ANSI or CSA testing standards.



WARNING: WHEN FINISHING THE STOVE, NEVER OBSTRUCT OR MODIFY THE AIR INLET/OUTLET GRILLES IN ANY MANNER.

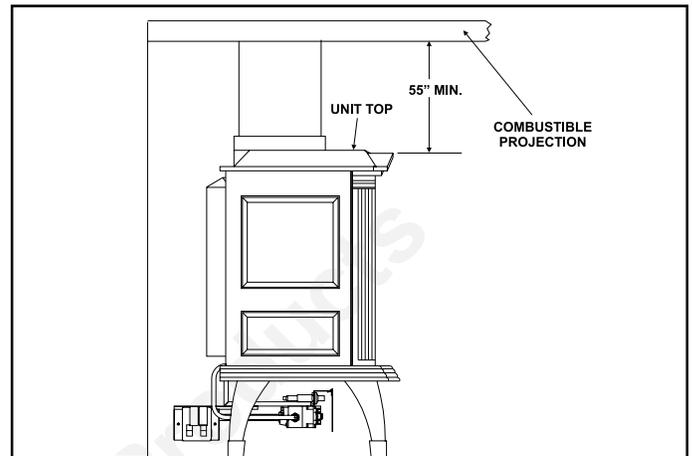


Figure 26. Combustible Mantel Minimum

Step 9 Installing Logs and Ember Material

Positioning the Logs

If the gas logs have been factory installed they should not need to be positioned.

If the logs have been packaged separately, refer to the installation instructions that accompany the logs.

Save the log instructions with this manual.

If sooting occurs, the logs might need to be repositioned slightly to avoid excessive flame impingement.

Placing the Ember Material

Two separate bags of ember material are shipped with this gas fireplace:

- The bag labeled Golden Ember (GE-93) is flame colorant material.
- The bag labeled Glowing Ember (050-721) is standard glowing ember material.

To place the ember material:

- Remove the glass door from the unit.
- Cover the top of the burner with a single layer of ember material. Then sprinkle GE-93 on top of the burner.
- Save the remaining ember materials for use during fireplace servicing.
- Replace the glass door and a front trim door on the unit (see Replacement Parts Section of the manual.)

1. Place the ember material directly onto the top of the burner.

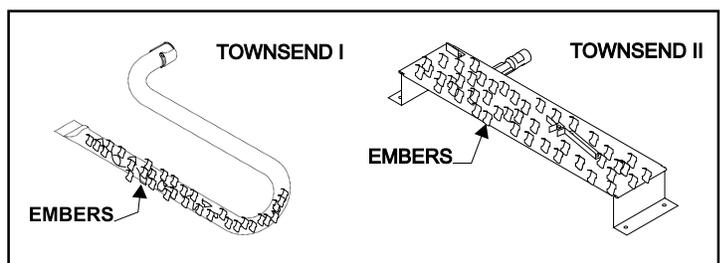


Figure 27. Placement of the Ember Material

Step 10 Before Lighting the Stove

Before lighting the stove, be sure to do the following:

Review safety warnings and cautions

- Read the **Safety and Warning Information** section at the beginning of this *Installers Guide*.

Double-check for gas leaks

- Before lighting the stove, double-check the unit for possible gas leaks.

Double-check vent terminations for obstructions.

- Before lighting the stove, double-check the unit for possible obstructions that could be blocking the vent terminations.

Double-check for faulty components

- Any component that is found to be faulty **MUST BE** replaced with an approved component. Tampering with the stove components is **DANGEROUS** and voids all warranties.

A small amount of air will be in the gas supply lines. When first lighting the stove, it will take a few minutes for the lines to purge themselves of this air. Once the purging is complete, the stove will light and will operate normally.

Subsequent lightings of the stove will not require this purging of air from the gas supply lines, **unless the gas valve has been turned to the OFF position**, in which case the air would have to be purged.

You've reviewed all safety warnings, you've checked the stove for gas leaks, you know the vent system is unobstructed, and you've checked for faulty components. Now you're ready to light the stove.

Step 11 Lighting the Stove



WARNING
PLEASE REFER TO THE USER'S
MANUAL FOR ALL CAUTIONS, SAFETY,
AND WARNING INFORMATION
PERTAINING TO THE LIGHTING AND
OPERATION OF THE STOVE.

After the Installation



LEAVE THIS INSTALLATION MANUAL
WITH THE APPLIANCE FOR FUTURE
REFERENCE.

4

Maintaining and Servicing Your Stove

Stove Maintenance

Although the frequency of your stove servicing and maintenance will depend on use and the type of installation, you should have a qualified service technician perform an appliance check-up at the beginning of each heating season. See the table below for specific guidelines regarding each stove maintenance task.

IMPORTANT

TURN OFF THE GAS BEFORE SERVICING YOUR STOVE.

Type of Stove Maintenance	Frequency	By	Stove Maintenance Task To Be Completed
Replacing Old Ember Material	Once annually, during the annual check-up	Qualified Service Technician	Brush away loose ember material near the burner. Replace old ember material with new dime-size and shape pieces of Golden Ember (GE-93) and Glowing Ember (050-721). New ember material should be placed alternately on top of the burner—a layer of Golden Ember, a layer of Glowing Ember, and so on. Save the remaining ember material and repeat this procedure at your next servicing. For more information, see Placing Ember Material in the INSTALLERS GUIDE .
Cleaning Burner & Controls	Once annually	Qualified Service Technician	Brush or vacuum the control compartment, stove logs, and burner areas surrounding the logs.
Checking Flame Patterns, Flame Height	Periodically	Qualified Service Technician/ Owner	Make a visual check of your stove's flame patterns. Make sure the flames are steady—not lifting or floating. See the picture in Figure 28. The thermopile/thermocouple tips should be covered with flame. See the picture in Figure 29.
Checking Vent System	Before initial use and at least annually thereafter, more frequently if possible	Qualified Service Technician/ Owner	Inspect the external terminal cap on a regular basis to ensure that no debris is interfering with the flow of air. Inspect entire vent system for proper function.
Cleaning Glass Door	As necessary	Homeowner	Clean as necessary, particularly after adding new ember (flame colorant) material. Film deposits on the inside of the glass door should be cleaned off using a household glass cleaner. NOTE: DO NOT handle or attempt to clean the door when it is hot and DO NOT use abrasive cleaners.

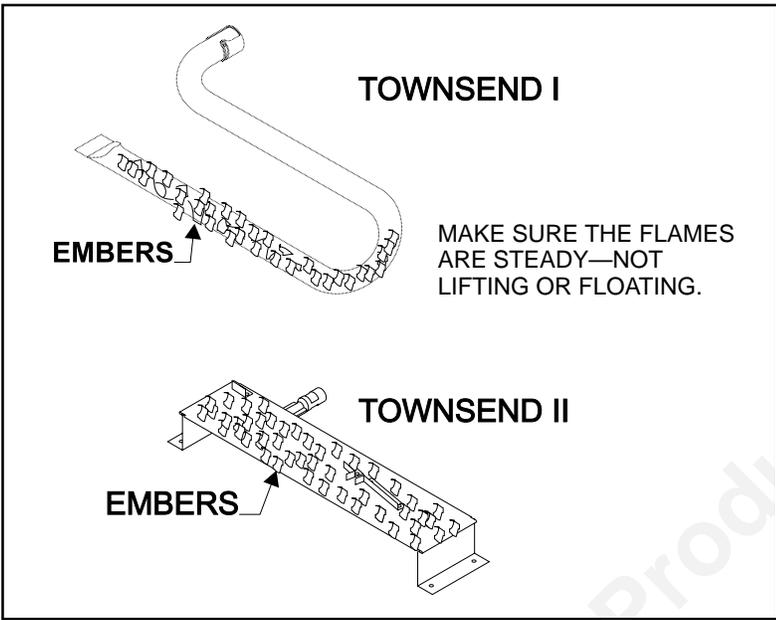


Figure 28. Burner Flame Patterns

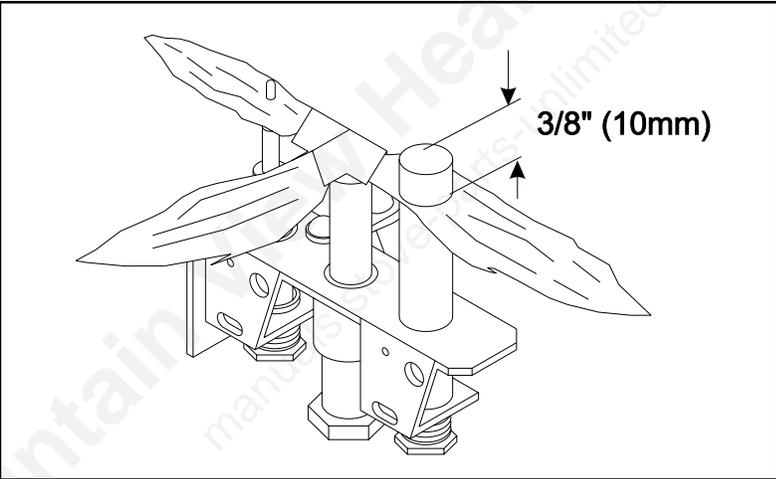


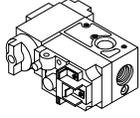
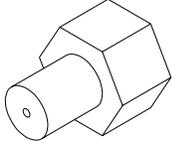
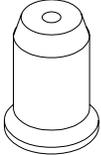
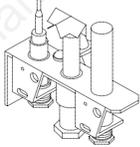
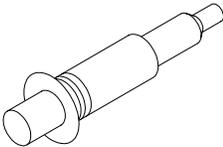
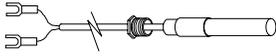
Figure 29. Pilot Flame Patterns

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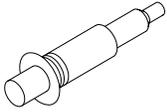
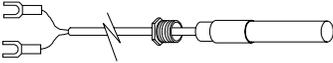
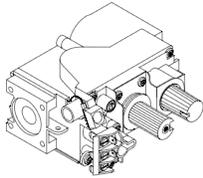
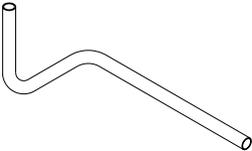
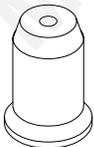
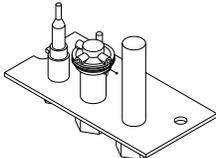
Replacement Parts and Accessories

All parts listed in this **INSTALLERS GUIDE** may be ordered from an authorized dealer. When requesting service or replacement parts for your stove, please provide the model number and the serial number.

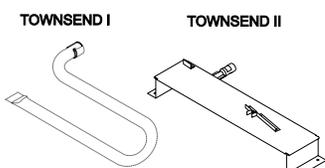
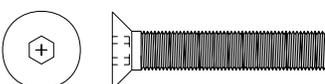
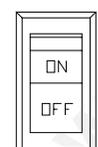
Standing Pilot with Robertshaw controls

PART	PART DESCRIPTION	PART NUMBER
	Gas Valve LP	SRV60-523
	Gas Valve NG	SRV60-522
	Burner Orifice LP TOWNSEND I	SRV60-801
	Burner Orifice NG TOWNSEND I	SRV57-800
	Burner Orifice LP TOWNSEND II	SRV57-801
	Burner Orifice NG TOWNSEND II	SRV79-831
	Pilot Orifice LP	SRV446-517
	Pilot Orifice NG	SRV446-505
	Pilot Tube	SRV446-301
	Burner Tube TOWNSEND I	SRV419-304
	Burner Tube TOWNSEND II	SRV402-300
	Pilot Assembly LP	SRV446-511A
	Pilot Assembly NG	SRV446-510A
	Piezo Ignitor	SRV60-513
	Thermocouple	SRV60-512
	Thermocouple	SRV446-511

Standing Pilot with S.I.T. controls only

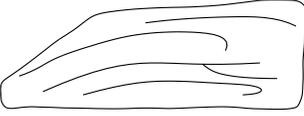
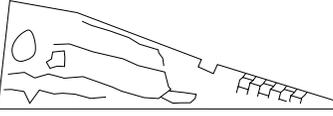
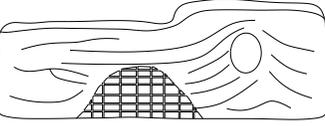
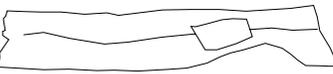
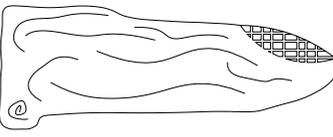
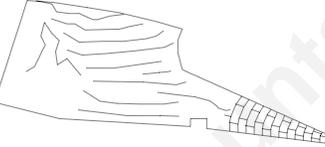
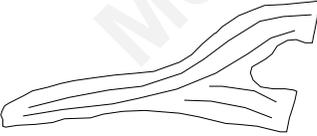
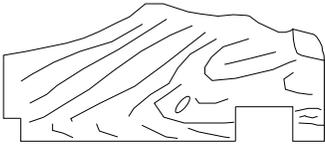
PART	PART DESCRIPTION	PART NUMBER
	Piezo Ignitor	SRV60-513
	Thermopile	SRV60-512
	Thermocouple	SRV571-511
	Valve LP	SRV571-501
	Valve NG	SRV571-500
	Burner Tube Townsend I	SRV419-304
	Burner Tube Townsend II	SRV402-300
	Pilot Tube	SRV571-301
	Pilot Orifice LP	SRV571-517
	Pilot Orifice NG	SRV571-516
	Pilot Assembly LP	SRV571-511A
	Pilot Assembly NG	SRV571-510A

Both Robertshaw & S.I.T. Standing Pilot Replacement Parts

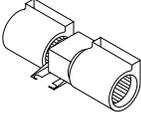
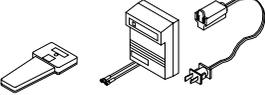
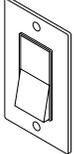
PART	PART DESCRIPTION	PART NUMBER
 <p style="text-align: center;">TOWNSEND I TOWNSEND II</p>	Burner LP/NG Townsend I	SRV419-327A
	Burner LP Townsend II	SRV402-175A
	Burner NG Townsend II	SRV402-181A
	Flat Head Screw Townsend I	SRV402-800
	Flat Head Screw Townsend II	SRV402-802
	On/Off Rocker Switch	SRV60-525A
	Glass Assembly - TOWNSEND I	SRV419-600A
	Glass Assembly - TOWNSEND II	SRV402-600A
	3/16" Allen Wrench	SRV402-801

Glass Specifications: **Townsend I 13 3/8" x 14" Ceramic**
Townsend II 14 3/4" x 21 1/2" Ceramic

Both Robertshaw & S.I.T. Replacement Parts

PART	PART DESCRIPTION	PART NUMBER
	Upper Front Log - TOWNSEND I	SRV446-715
	Left Front Log - TOWNSEND I	SRV446-703
	Rear Log - TOWNSEND II	SRV446-701
	Front Log - TOWNSEND II	SRV446-704
	Right Front Log - TOWNSEND I Right Middle Log - TOWNSEND II	SRV446-714
	Left Middle Log - TOWNSEND II	SRV446-702
	Top Log - TOWNSEND II	SRV402-701
	Rear Log - TOWNSEND I	SRV419-705

Accessories

ACCESSORY	PART DESCRIPTION	PART NUMBER
	Fan Kit	GFK-160A GFK-230
	Remote Control Kit	RC-SMART SMART-STAT RC-MLT
	Wall Switch Kit - Off White - White	WSK-21 WSK-21-W