

Heatilator Inc.
1915 W. Saunders Street
Mt. Pleasant, IA 52641
a HON INDUSTRIES company

DVi10 DIRECT VENT GAS-FIRED FIREPLACE INSERT ROOM HEATER **OWNERS MANUAL** AND INSTALLATION INSTRUCTIONS

MODELS: DVi10 NATURAL GAS
DVi10L PROPANE GAS

This manual must be used for installation of the DVi10 Direct Vent Gas-Fired Fireplace Insert Room Heater and retained by the homeowner for operating and maintenance instructions.

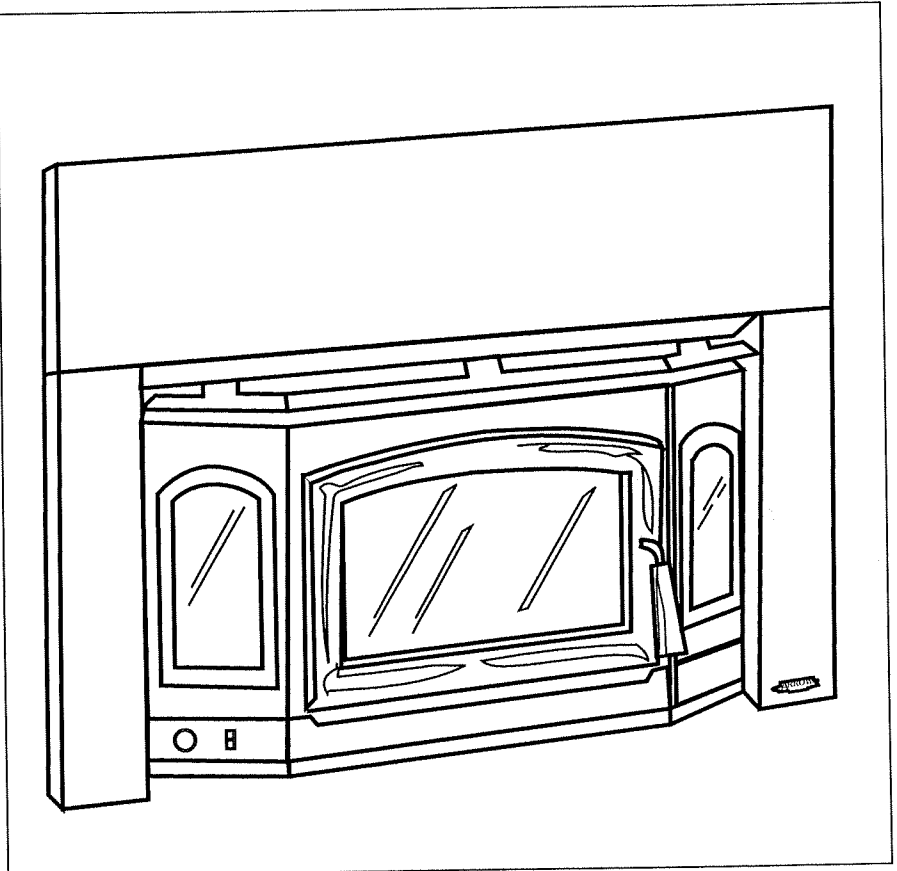
FOR YOUR SAFETY

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.

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.



FOR YOUR SAFETY

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



Electrician: Please refer to page 15 for wiring instructions.



Plumber: Please refer to pages 5 and 10 for gas connection information.

PLEASE RETAIN THIS MANUAL FOR FUTURE REFERENCE.

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Safety Precautions

1. Please read these installation instructions completely before beginning installation procedures. Failure to follow them could cause malfunction resulting in serious injury and/or property damage.
2. Always check your local building codes prior to installation. This installation must comply with all local, regional, state and national codes and regulations.
3. Installation and repair should be done by a qualified service person. This heater should also be inspected annually by a qualified service person. More frequent inspections/cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that the control compartment, burners and circulating air passage ways of the heater be kept clean.
4. This heater is a direct vent Gas-Fired fireplace insert room heater. Do not burn wood or other material in this heater.
5. NEVER leave children unattended when there is a fire burning in the heater.
6. This heater must not be connected to a chimney flue servicing a solid fuel burning appliance.
7. NEVER use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids in this heater. Keep any flammable liquids a safe distance from the heater.
8. While servicing this heater, always shut off all electricity and gas to the heater. This will prevent possible electrical shock or burns. Also, make sure the heater is completely cooled before servicing.
9. During any pressure testing of the gas supply piping system that exceeds test pressures of 1/2 psig, this heater and its individual shut-off valve must be disconnected from the piping system. If test pressures equal to or less than 1/2 psig are used in pressure testing the gas supply piping system, this heater must be isolated from the piping system by closing its individual manual shut-off valve during testing.
10. Do not use this heater if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water.
11. Be sure to provide adequate clearances around the air openings into the combustion chamber and adequate accessibility clearances for servicing and proper operation.



I. LISTINGS AND CODE APPROVALS

U.S. Certification

The DVi10 Series Gas Heater has been tested in accordance with the ANSI standard Z21.11.1-1991 and applicable sections of ANSI Z21.44-1991 and has been listed by Underwriters Laboratory (UL) for installation and operation as described in these Installation and Operating Instructions. All components are A.G.A. or UL safety certified.

Canada Certification

The DVi10 Series Gas Heater has been tested in accordance with the CAN1-2.1M89 and applicable sections of CAN1-2.17M91 and CAN2.19-M81 and has been listed by UL for installation and operation as described in these Installation and Operating Instructions. All components are C.G.A. or C.S.A. safety certified.

This heater is approved for installation in bedrooms and mobile homes in the United States and Canada.

Local codes

Check with your local building code agency prior to installing this heater to ensure compliance with local codes, including the need for permits and follow-up

inspections. This installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1-latest edition, in the U.S.A. and the CANI-B149-latest edition, in Canada.

If any assistance is required during installation please contact your local dealer or contact ARROW/DOVRE Customer Relations Department, 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641.

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II. DESCRIPTION OF THE HEATER SYSTEM

The DVi10 is a direct vent Gas-Fired fireplace insert heater. Combustion air is supplied from outside, not from inside the house as with other types of heaters.

This ARROW DVi10 system consists of the following:

1. Room Heater
2. Venting System
3. Termination
4. Fan Kit
5. Surround

Optional components include:

1. Gold Side Windows
2. Remote control

Note: Illustrations throughout these instructions reflect typical installations and are for design purposes only. Actual installation may vary slightly due to individual design preferences. However, minimum and maximum clearances must be maintained at all times.

The illustrations and diagrams used throughout these installation instructions are not drawn to scale.

Tools and building supplies normally required for installation.

Tools

Pliers
Phillips screwdriver
Tape measure
Level
Electrical drill and bits
Square
High Temperature Sealant Material

Note: Operation of a direct vent heater may be sporadic in high wind situations.

High Temperature Sealant Material. Sealants that will withstand high temperatures (at least 350 degrees Fahrenheit); General Electric RTV103 (Black), or equivalent. Rutland, Inc. Fireplace Mortar #63, or equivalent; Dow Corning 732 or equivalent.



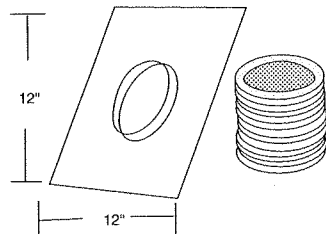
III. HEATER SYSTEM COMPONENTS

The table below is a list of only those components which may be safely used with this heater. An illustra-

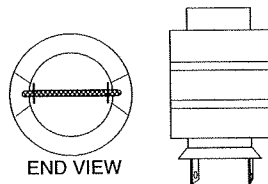
tion of each component can be found on page five.

Catalog Number	Description
DVi10B	Direct vent Gas-Fired fireplace insert - black door - natural gas, standing pilot
DVi10BL	Direct vent Gas-Fired fireplace insert - black door - propane gas, standing pilot
DVi10G	Direct vent Gas-Fired fireplace insert - gold door - natural gas, standing pilot
DVi10GL	Direct vent Gas-Fired fireplace insert - gold door - propane gas, standing pilot
GDVSR24	Small surround (24 $\frac{1}{2}$ " H x 40 $\frac{1}{2}$ " W)
GDVSR40	Standard surround (28 $\frac{1}{2}$ " H x 40 $\frac{1}{2}$ " W)
GDVSR46	Large surround (33 $\frac{1}{2}$ " H x 46" W)
TKSG	Gold trim for side windows (2)
RC6	Remote control (battery/battery)
FBTA1	Factory built fireplace termination adapter kit
MTA1	Masonry fireplace termination adapter kit

Factory Built Fireplace Termination Adapter Kit

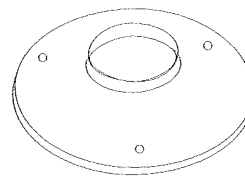


Plate/Collar & Flex



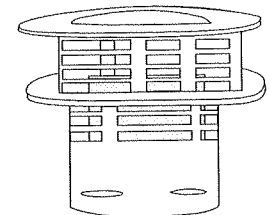
END VIEW

Coaxial Adapter



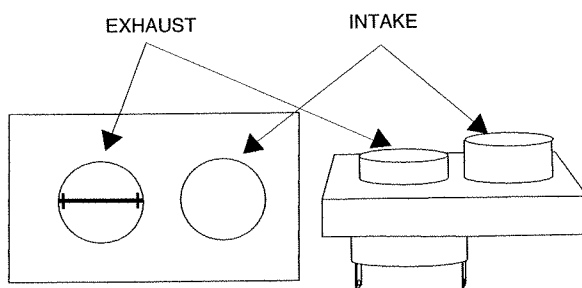
VTA

Vertical Termination Adapter



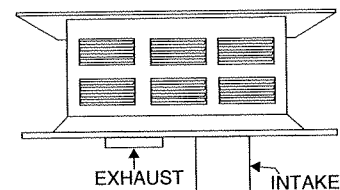
Vertical Termination Cap

Masonry Fireplace Termination Adapter Kit



TOP VIEW

Coaxial / Colinear Adapter



Vertical Termination Cap



IV. PRE-INSTALLATION PREPARATION

INSTALLATION AND REPAIR SHOULD BE DONE BY A QUALIFIED SERVICE PERSON. THE HEATER SHOULD BE INSPECTED BEFORE USE AND AT LEAST ANNUALLY BY A QUALIFIED SERVICE PERSON. MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM CARPETING, BEDDING MATERIAL, ETC. IT IS IMPERATIVE THAT CONTROL COMPARTMENTS, BURNERS AND CIRCULATING AIR PASSAGEWAYS OF THE HEATER BE KEPT CLEAN.

DUE TO HIGH TEMPERATURES, THE HEATER SHOULD BE LOCATED OUT OF TRAFFIC AND AWAY FROM FURNITURE AND DRAPERIES.

THIS HEATER MUST BE INSTALLED ON A NON-COMBUSTIBLE, FLAT, SOLID, CONTINUOUS SURFACE (i.e. fireplace hearth).

WARNING: THIS HEATER MAY ONLY USE THE DIRECT VENT CHIMNEY SYSTEM REQUIRED WITH THE UNIT AND MUST NOT BE CONNECTED TO A CHIMNEY FLUE SERVICING A SEPARATE SOLID FUEL OR GAS FUEL BURNING APPLIANCE.



A. GAS PRESSURE

For natural gas, the minimum inlet gas supply pressure is 4.5 inches water column, and the maximum inlet gas pressure is 7.0 inches water column, for the purpose of input adjustment. Input rate is 40,000 Btu/hr. For propane gas, the minimum inlet gas supply pressure is 11.0 inches water column and a maximum 14.0 inches water column. Input rate is 35,000 Btu/hr.

Manifold pressure for this heater is 1.7 - 3.5 inches water column for natural gas and 5.4 - 11.0 inches water column for propane gas. This heater has a variable adjust manifold.

A 1/8" NPT plugged tapping is provided on the gas control valve, near the outlet to the main burner immediately upstream of the gas supply connection to the heater, accessible for a test gage connection.

B. HIGH ALTITUDE INSTALLATION

For U.S. installation, this heater has been tested and approved for elevations from 0-2000 feet.

When installing this heater at an elevation above 2000 feet, United States codes require a decrease of 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 the local gas utility for proper orifice size identification. This heater is shipped with a .128 in./3.25 mm. orifice size on natural gas versions and a .070 in./1.77 mm. orifice size on propane gas versions.

For Canadian installation, this heater is certified for elevations from 0-4500 feet. When installing this unit at an elevation between 0-4500 feet in Canada, the input rating does not need to be reduced.

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 your location or refer to ANSI Z223.1-latest edition, Appendix F.



C. DIMENSIONAL REQUIREMENTS

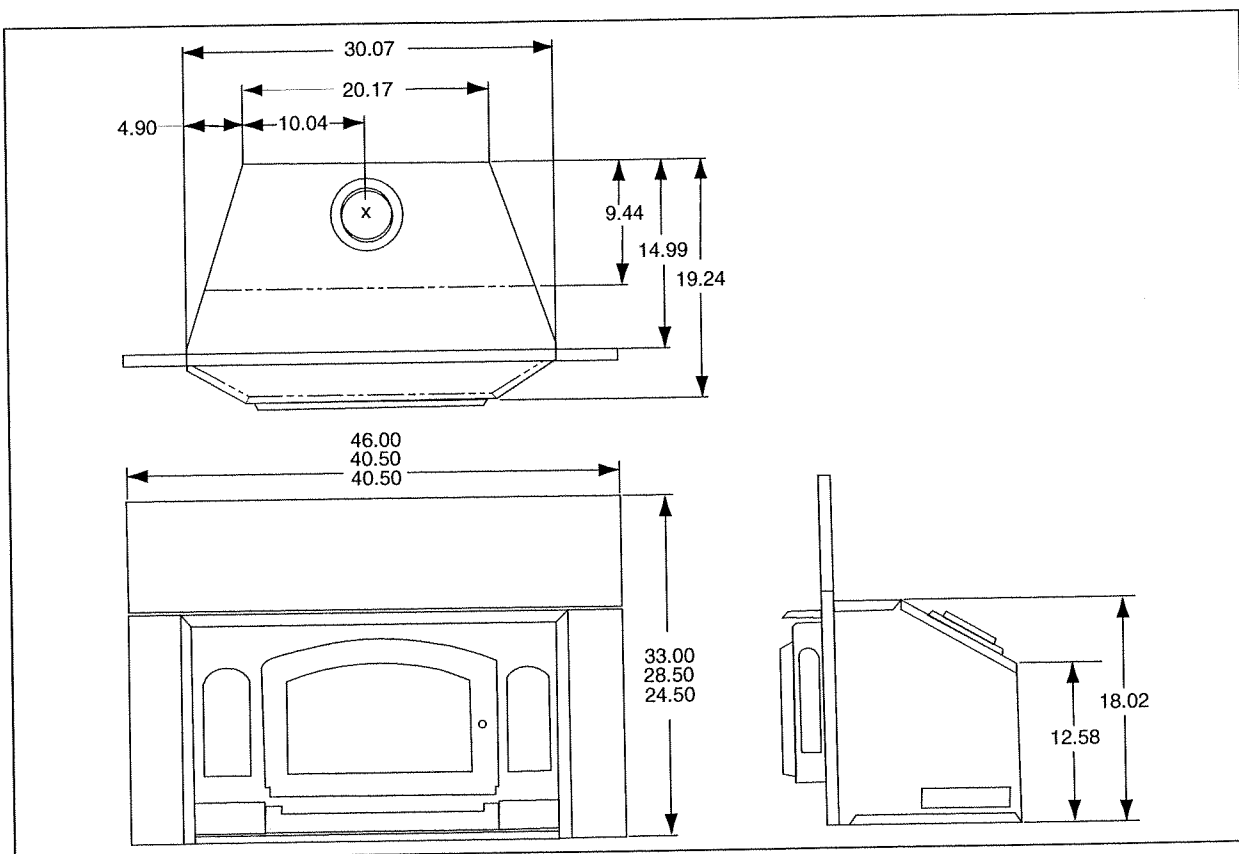


Figure 1
DVi10 Dimensions

V. STEP-BY-STEP INSTALLATION OF THE DVi10 SYSTEM

WARNING

BEFORE STARTING, DO THE FOLLOWING:

1. WEAR GLOVES AND SAFETY GLASSES FOR PROTECTION.
2. KEEP HAND TOOLS IN GOOD CONDITION. SHARPEN CUTTING EDGES AND MAKE SURE TOOL HANDLES ARE SECURE.
3. ALWAYS MAINTAIN THE MINIMUM AIR SPACE REQUIRED TO THE ENCLOSURE TO PREVENT FIRE.

A. Installation into a factory built fireplace.

A flue from the top of the heater to the roof termination is required. The minimum inside diameter of the fireplace chimney system is 6". A minimum venting height of 10' above the base of the heater must be maintained. Any horizontal run must not exceed 50% of the vertical rise of the fireplace chimney system.

Note: Fireplace chimney systems must be cleaned thoroughly and inspected before installation of the insert room heater. If any portion of the chimney system shows signs of structural or mechanical weaknesses, such as; cracks, leaky joints, corroded or warped surfaces, the faulty portion must be repaired or replaced.



1. Direct Connect. The direct connect installation uses the existing fireplace chimney system for intake air. The minimum inside diameter of the existing system is 6".

A 4" UL 1777 listed gas vent flex liner must be used for the exhaust portion of the direct vent system. Make sure that the 4" liner will pass by the damper. If the damper must be removed or locked out of place, retain parts for future use and seal any holes with a high temperature silicone.

Remove the existing chimney cap and position the VTA on top of the last section of existing chimney and adjust the legs on the VTA around the outside of the chimney section and secure with the screws provided. See Figures 2 and 3.

Stretch the 4" listed flexible gas liner out and feed it down the existing chimney until it reaches the hearth. Leave 12" sticking out the the top of the VTA and cut off excess.

Attach the 4" flex to the Vertical Termination Cap with screws provided. Place the cap on the VTA and attach with screws provided. See Figures 2 and 3.

Remove the flue adapter collar from the factory built fireplace adapter kit, position it against the top of the existing firebox top and determine if the adapter, which is 12" x 12", needs to be trimmed. If needed, trim the adapter with tin snips to size. Drill 4 holes in adapter 3/16" dia.

From the factory built fireplace adapter kit, attach the 6" flex pipe to the flue adapter collar. Place a bead of high temperature silicone on the top of the adapter collar and position the adapter collar w/flex pipe to the top of the existing fireplace firebox. Screw the adapter to the firebox top with four (4) self-tapping screws. See Figure 4.

Inside the existing fireplace firebox attach the 4" flexible liner to the coaxial adapter (from the Factory built fireplace adapter kit) with provided screws. Next attach the 6" flexible adapter to the coaxial adapter with screws provided. After the two flex liners are secured, press the coaxial adapter upwards to compress the flexible liners.

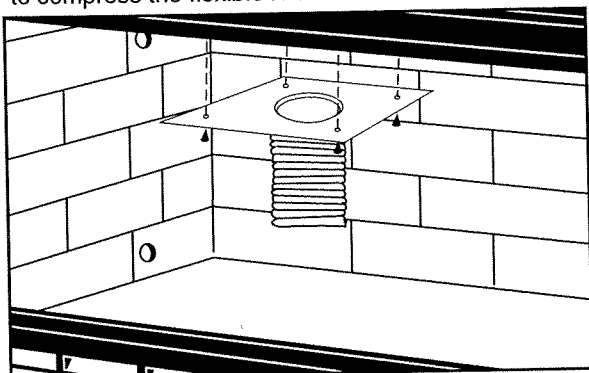


Figure 4
Installation of the Adapter Collar w/ Flex

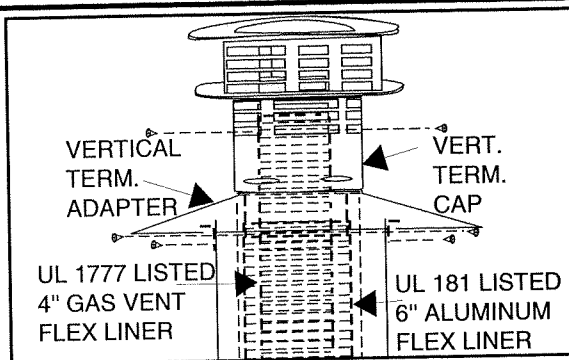


Figure 2
Termination of the Vertical Termination Cap

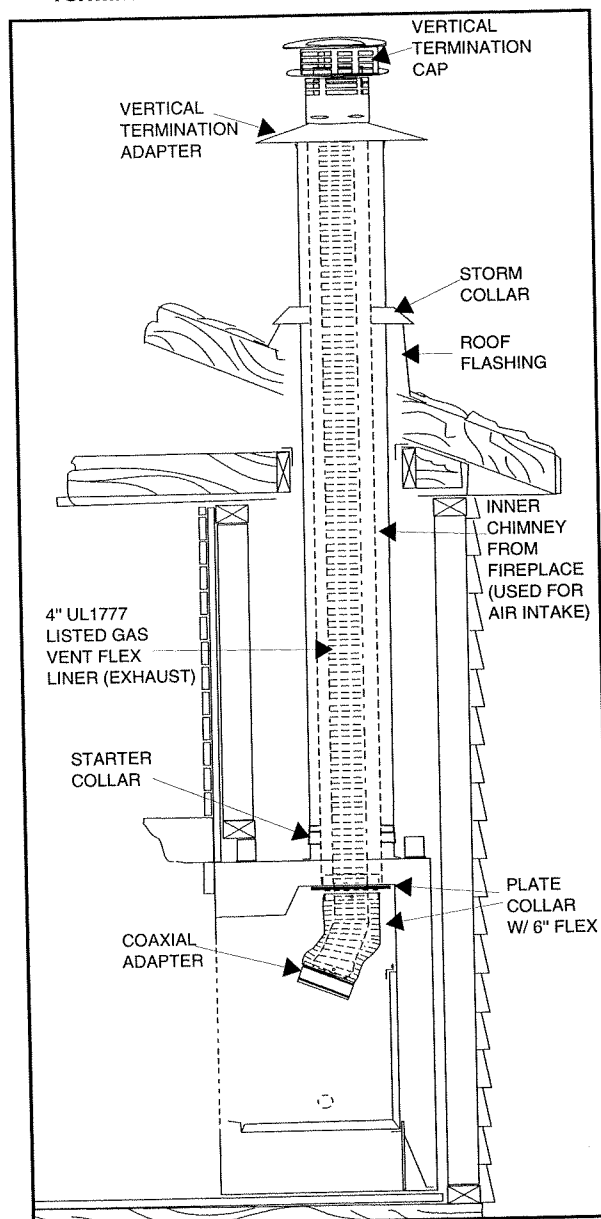


Figure 3
Direct Connect Termination



2. Relining an existing Factory built fireplace chimney system. When relining an existing system use a 6" listed flexible liner that meets UL listed 181 or a 6" gas vent aluminum flexible liner can be used (UL1777).

Stretch the 6" flexible liner out and feed down the chimney until it reaches the hearth. Leave 12" sticking out the top of the chimney and cut off excess. Attach the 6" flexible liner to the VTA using screws provided. Place the VTA onto the top of the existing chimney and adjust the legs on the VTA around the outside of the chimney and secure with the screws provided. See Figures 5 and 6.

Stretch the 4" UL 1777 listed gas vent flex liner out and feed it down the 6" listed aluminum flex liner until it reaches the hearth. Leave 12" sticking out the top of the VTA and cut off excess.

Attach the 4" flex to the Vertical Termination Cap with screws provided. Place the cap on the VTA and attach with screws provided. See Figures 5 and 6.

Inside the existing fireplace firebox attach the 4" flexible liner to the coaxial adapter (from the Factory built fireplace adapter kit) with provided screws. Next attach the 6" flexible liner to the coaxial adapter with screws provided. After the two flex liners are secured, press the coaxial adapter upwards to compress the flexible liners.

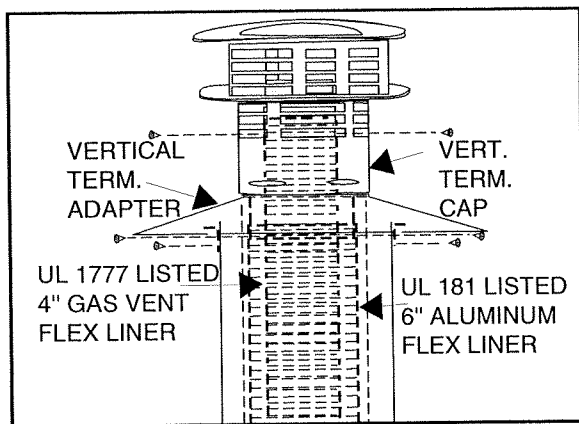


Figure 5
Installation of Vertical Cap

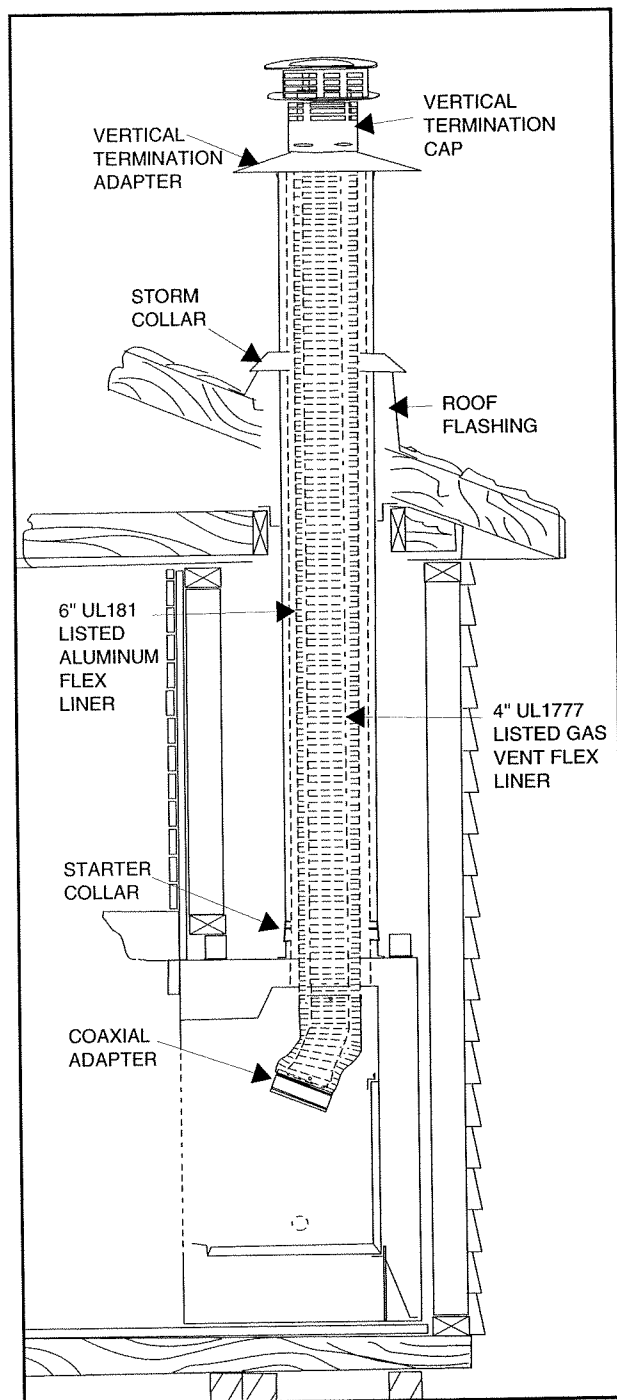


Figure 6
Relined Chimney for DVi10



B. Installation into a Masonry Fireplace. For masonry installation, two (2) 4" flexible liners are needed. One of which may be a 4" single wall aluminum flexible liner that meets UL 181 (this listed liner will only be used for intake air. The other 4" flexible liner must be a gas vent aluminum flexible liner that meets UL1777 (this is used for exhaust gas).

Before running the flexible liners, make sure that both liners will pass through existing damper area. Remove or lock damper to allow the passage of the flexible liners. If the damper will not allow the passage of both liners, **DO NOT PROCEED FURTHER**, without consulting a local mason on how to remove or alter the damper without risk of structural damage or leakage.

Before installing venting, mark the flexible liners on each end to designate which is intake and which is exhaust.

Stretch each 4" flexible liner and run it down the chimney until it reaches the hearth. Leave an additional 3" to each of the flex liners extending from the chimney and cut off excess.

Cut the Termination cap flashing and bend it to fit the chimney top. If the termination cap must be modified, silicone all seams to seal the cap.

Attach the 4" gas vent flexible liner (exhaust) to the shorter collar on the Masonry Termination Cap, then attach the 4" aluminum flexible liner (intake) to the longer collar on the Masonry Termination Cap. See Note.

Place a bead of silicone on the bottom of the cap flashing, position the flashing, and secure it to the chimney.

Note: Do not hook 4" gas vent liner(exhaust) to the longer collar. This will cause operational malfunctions.

Measure up from the hearth **18 inches** on each flexible liner and cut. Stretch the air intake liner and push it up through the damper opening until the bottom end is approximately 18 inches above the hearth. Pack the area at the damper seal with noncombustible insulation to prevent cold air infiltration into the fireplace cavity. Connect the exhaust liner to the shorter collar on the colinear adapter with the clamps provided. Then, connect the intake flexible liner to the longer collar on the colinear adapter with the clamps provided. After both liners are attached, push the adapter up until the flexible liners are compressed.

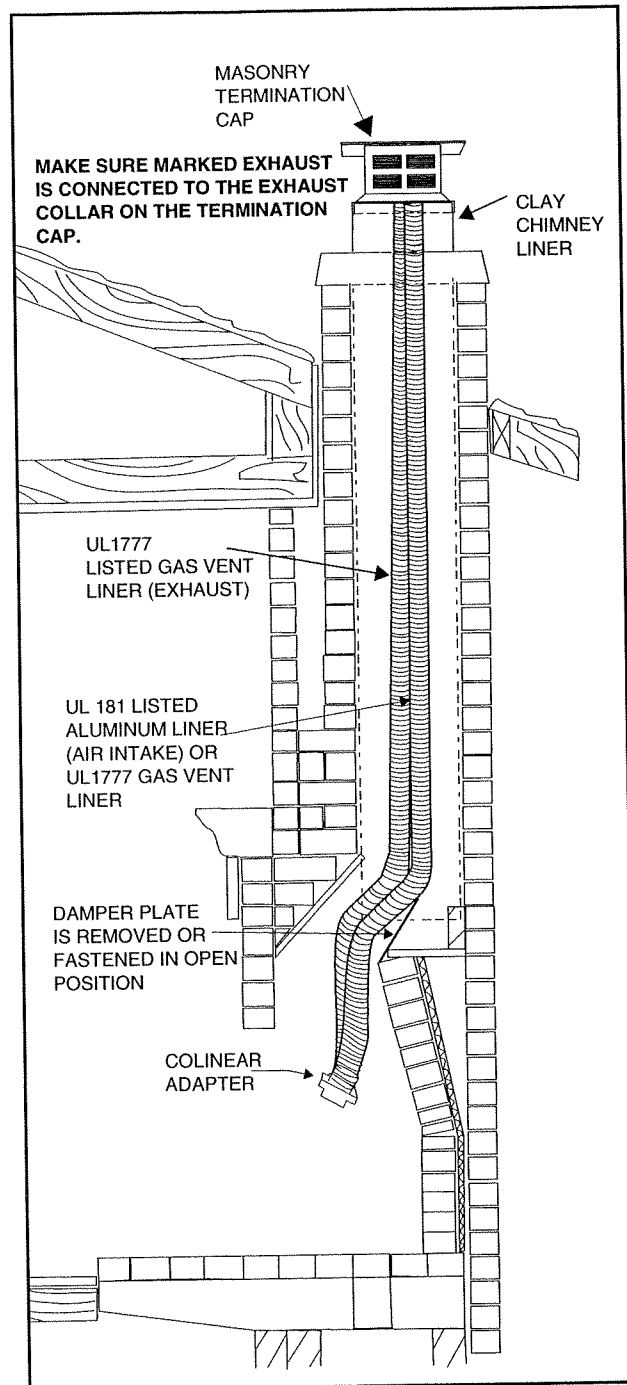


Figure 7
Masonry Installation



C. GAS LINE INSTALLATION

A gas line must be run into the existing woodburning fireplace, for either a factory built fireplace or masonry. If it is a factory built fireplace the gas line should be brought into the fireplace through the gas knock-outs provided.

It is recommended that 1/2" inside diameter Black pipe be run into the fireplace through the right side. If the existing unit already has gas run to it, but through the left side, it is recommended that the gas line be rerouted to the right side. The gas line should enter the existing firebox at least far enough to ensure that it will extend approximately 2" inside the heater.

Place an elbow at the end of the Black pipe so that it runs perpendicular to the face. Attach the gas shut-off valve (provided) to the elbow. Attach flex tube to the shutoff valve. See Figure 8.

Check for leaks using a soap and water solution.

Seal with high temperature silicone the point where the gas line enters the existing fireplace firebox to prevent cold air infiltration.

THIS FIREPLACE HAS BEEN ALTERED TO ACCOMMODATE AN INSERT AND SHOULD BE INSPECTED BY A QUALIFIED PERSON PRIOR TO RE-USE AS A CONVENTIONAL FIREPLACE.

Note: The above label, located in the instruction package, must be affixed to the existing fireplace prior to installation of the DVi10 Direct Vent Gas-Fired Fireplace Insert Room Heater.

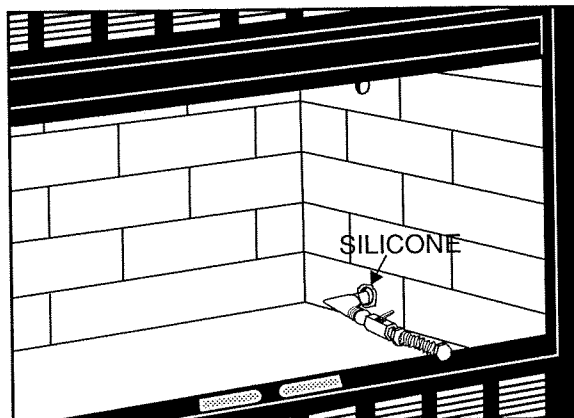


Figure 8
Gas Line Installation

D. HEATER INSTALLATION

1. Surround Installation.

Carefully remove the surround parts from the shipping carton. Attach two (2) screws and spacers in the holes at the top of each side panel. Slide the top panel flange between the top plate and the top pan and push into place. The slots in the top panel should line up and snap over the spacers installed on the side panels. Attach side panels from the surround to the heater through the access holes using the screws provided. See Figure 9.

Assemble the gold trim kit with the corner brackets provided and slide the trim around the surround.

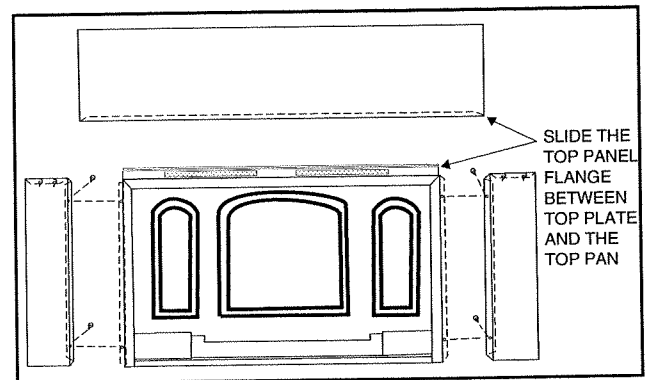


Figure 9
Surround Installation

2. Door Removal.

To gain access to the firebox, unscrew the phillips head screw, located at the right hand side of the door frame. See Figure 10. Open the door and carefully lift it off its' hinges and place it in a safe place until the installation of the insert is complete and logs are positioned.

Remove the door handle from inside of the firebox and place it with the door.

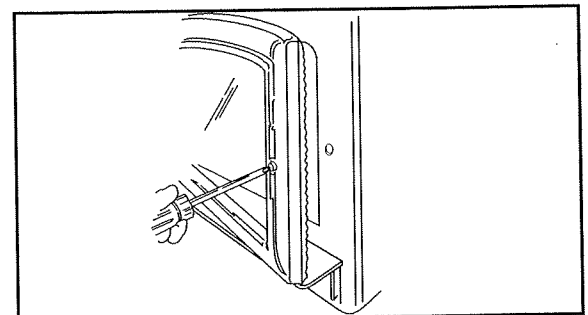


Figure 10
Access Firebox



3. Installation of Heater.

Remove baffle from heater by unscrewing nine (9) screws located around the baffle. (See Figure 11)
Remove and discard the gas line access cover located on the right side of the heater (4 screws). (See Figure 12)

Remove the right hand access to access gas line hook up (2 screws). (See Figure 13)

Place the heater on the hearth and carefully slide the heater into the fireplace. Making sure that the gas line enters the heater through the gas access opening. Also making sure the electrical cord is hanging out the front of the fireplace.

Reach into heater and up through the flue and grasp handle on the colinear/coaxial adapter, pulling it down onto the flue of the heater.

Keep downward pressure on the colinear/coaxial adapter and continue to slide the heater into the fireplace.

Bend locking tabs on the colinear a/coaxial adapter and secure in the holes with screws provided.

Re-install the upper baffle and secure with the nine (9) screws.

Connect the gas flex line to the input side of the valve. Turn the gas shutoff valve to on and check for leaks with a soap and water solution.

Reinstall the right hand access cover.

Route the electrical cord away from heater.

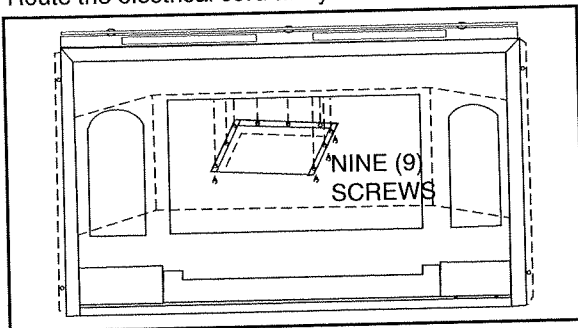


Figure 11
Baffle Removal

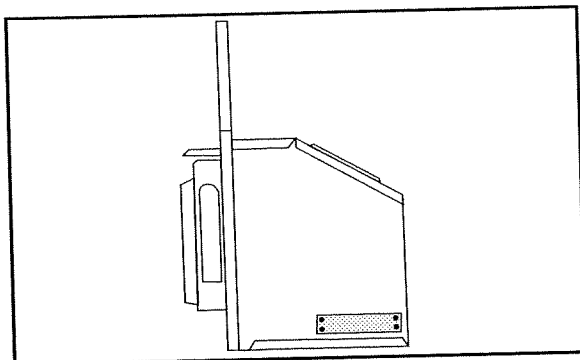


Figure 12
Gas Line Access Cover

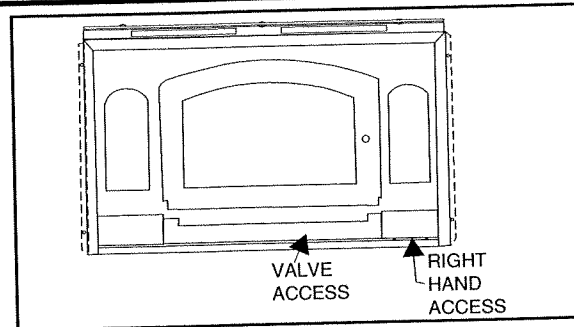


Figure 13
Installing DVi10 Insert

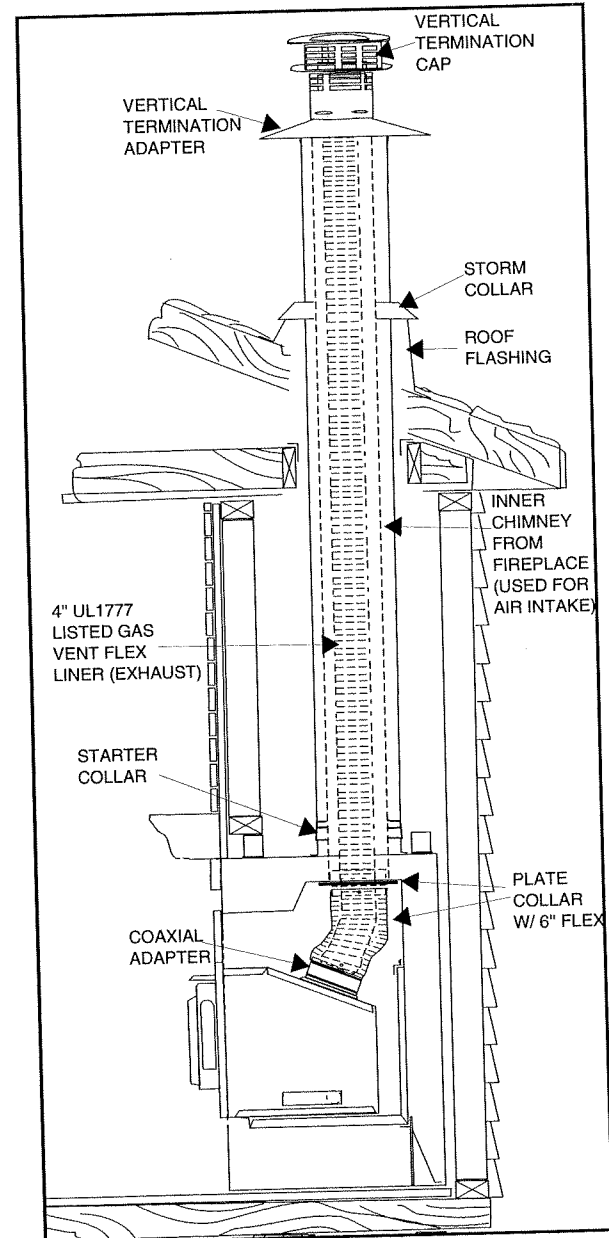


Figure 14
Direct Connect Termination



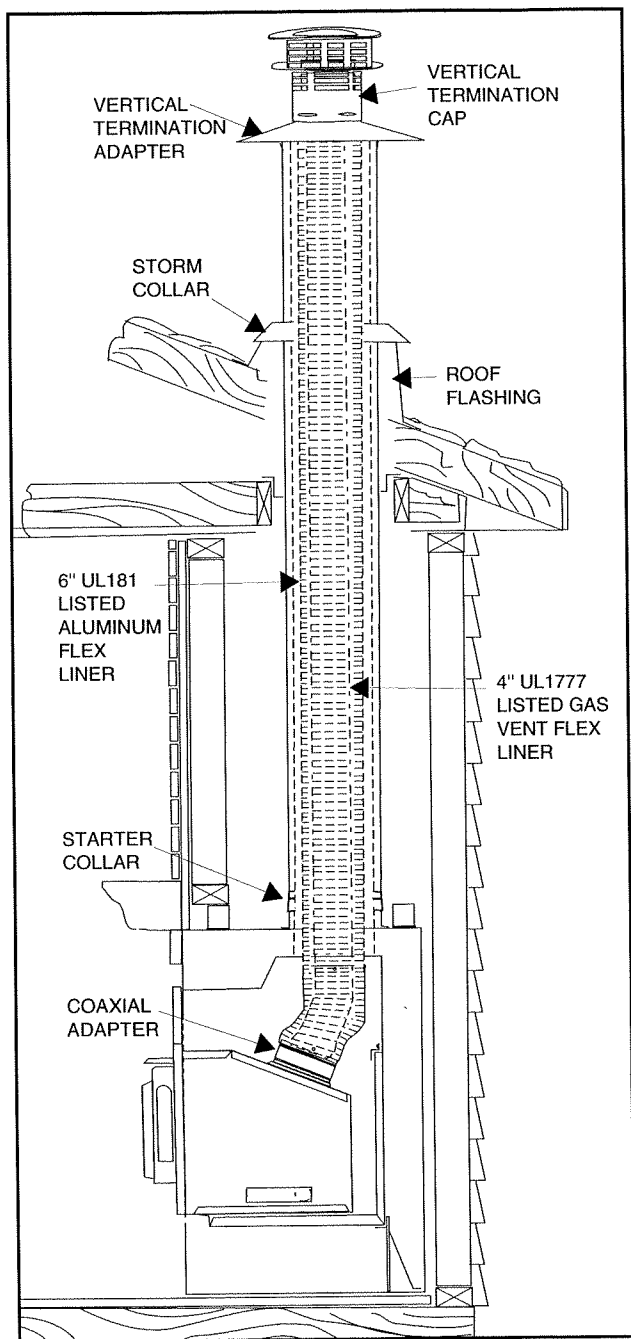


Figure 14A
Relined Direct Connect Termination

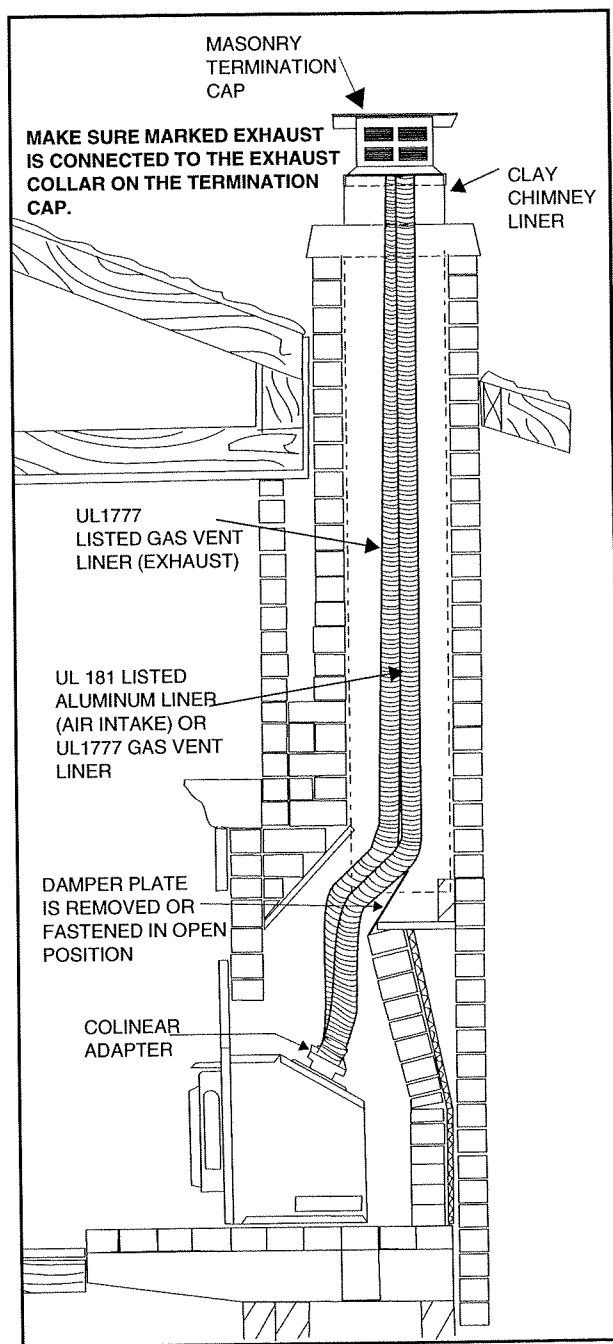


Figure 14B
Masonry Termination



Note: Placement of the logs and rock wool should be done with care and time, as this will create the look of the fire when burning.

4. Log Placement

Carefully unpackage the nine (9) logs from the shipping carton and inspect for the condition of the logs. Place the back log in the firebox on the rear support. The notch will provide clearance for the pilot assembly. See Figure 15.

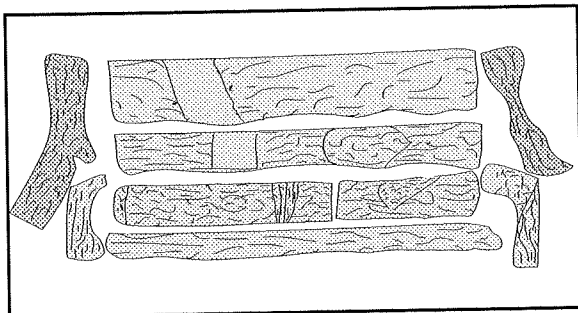


Figure 15
DVi10 Log Set

Place the outer left and right log pieces at each bend of the burner. See Figure 15.

The middle log should be placed between the rear and middle burner tube. See Figure 15.

The front right log with the notch should be placed to the right side of the burner between the middle and front burner tube. See Figure 16.

The front left log should be placed to the left side of the burner between the middle and front burner tube. See Figure 16.

Place the front log between front burner tube and the firebox front. See Figure 16.

The top left log should be positioned in the notches of the back and left front logs. See Figure 17.

The top right log should be positioned on the front right log, in the notch. See Figure 17.

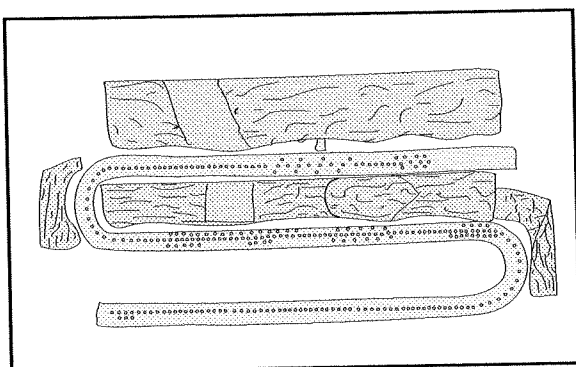


Figure 16
DVi10 Log Placement

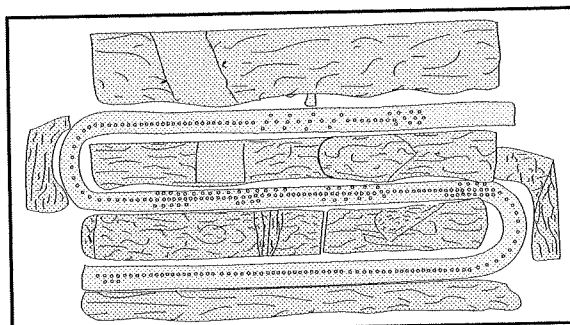


Figure 17
DVi10 Log Placement

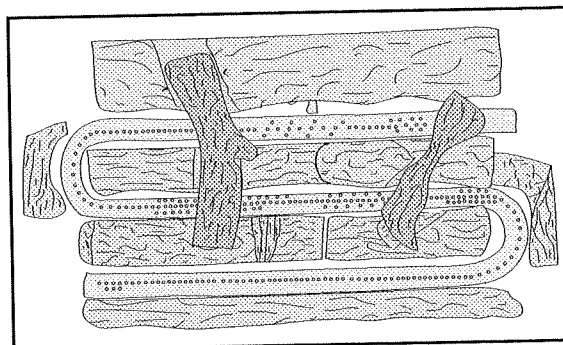


Figure 17A
DVi10 Log Placement

5. Rock Wool Placement

Tear the rock wool into pieces no larger than 1/2" diameter.

Lay the rock wool pieces on the front gas ports and on each bend of the burner so that the flame can touch the rock wool and create the glowing ember look. **Be sure not to pack the rock wool against the gas ports of the burner.** See Figure 18.

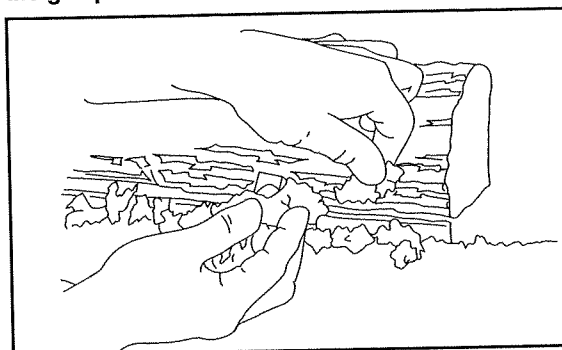


Figure 18
Placing the Rock Wool



E - Re-Installation of Door

Lift door above hinge pins on the face of the heater and line up pins with the holes in the door. Gently push down on the door until the center screw hole lines up with the threaded hole on the face of the heater.

F - Clean the Glass

To clean the glass, use a non-abrasive, mild cleaning solution. (For example, a glass cleaner or for stubborn film, an oven cleaner.) Simply apply an adequate amount to the glass and wipe off with a damp cloth. Please be sure all cleaner is thoroughly rinsed from the glass.

G - Close the door

Close the door and tighten center screw, securing the door. See Figure 19. Screw door handle into door behind the center screw. See Figure 20

H - Gold Door Cleaning. All prints and smudges must be wiped clean from the gold door prior to initial burn. If this is not done, these prints will be cured into the gold finish and set for the life of the stove.

To keep the finish looking its best, gently wipe with a soft cloth. If desired, use a non-abrasive cleaner such as soap and water, window cleaner, or vinegar and water. Never use any solvent, thinner, or abrasive cleaner since these will damage the finish.

I - Access door opening

The valve access door, located at the base of the heater in the front, is spring hinged and opens by simply pulling on the handle. See Figure 21. This will expose the gas valve and pilot controls as shown in Figures 25 through 27.

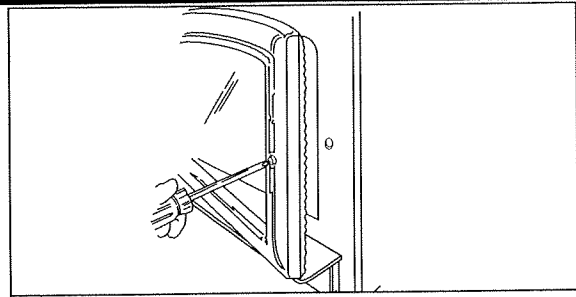


Figure 19
Secure Door

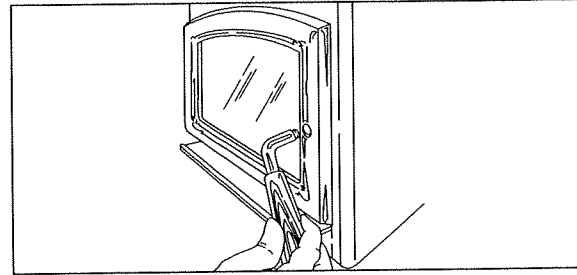


Figure 20
Attach Door Handle

WARNING

NEVER OPERATE THIS APPLIANCE WITH THE DOOR AND/OR GLASS REMOVED OR NOT SEALED.

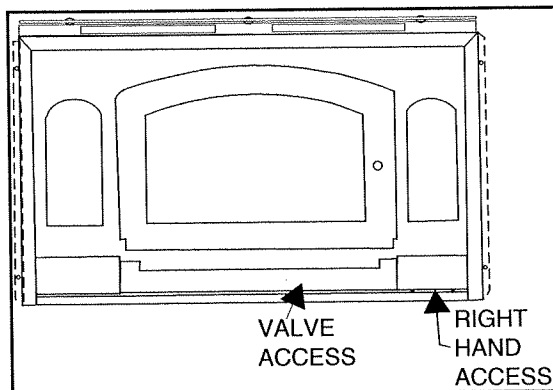


Figure 21
Valve Access



DVi10 Direct Vent Gas-Fired Fireplace Insert Room Heater

J - Wiring

Note: This heater 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. This heater can be used with a thermostat.

Note: This heater DOES require a 110VAC supply for operation of the fan.

A 110VAC outlet should be located close to the lower left side of the heater to allow the fan to be plugged in.

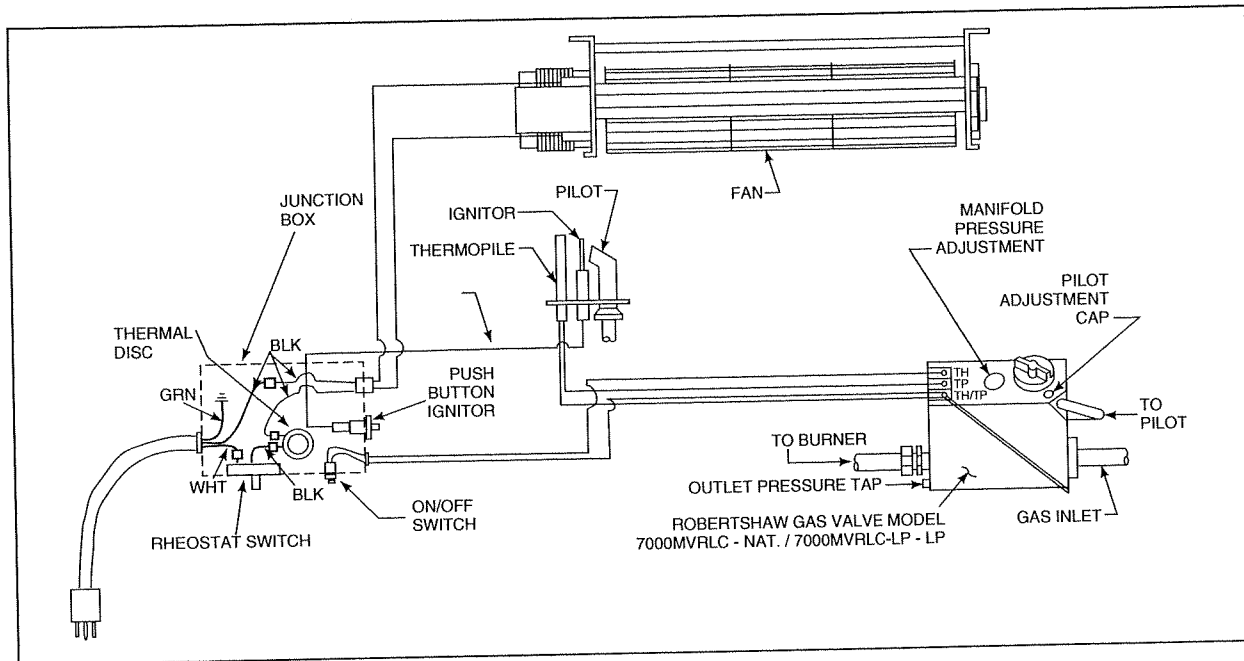


Figure 22
Wiring Diagram

1a. Optional Wall Thermostat. The use of a millivolt thermostat is allowed. It must be located within 20 feet. Figure 22a shows how to connect the thermostat. Remove ON/OFF switch wires from valve. Place Thermostat wires to the posts marked TH and TH/TP.

Note: The ON/OFF switch now becomes inoperable.

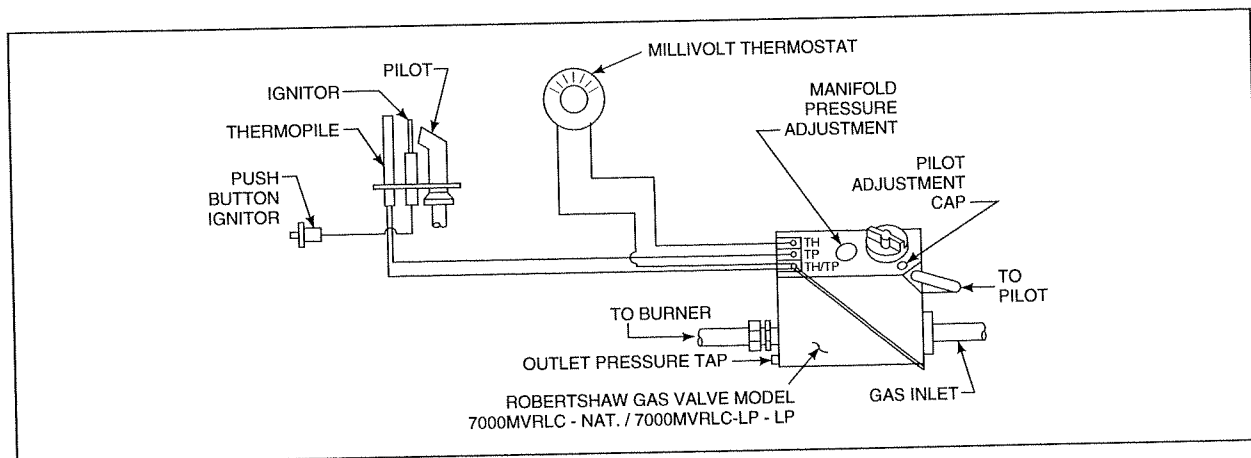


Figure 22a
Wiring Diagram



K - Pre-Use Check

Before operating this heater, please review the safety precautions given on page 2 as well as the items listed below:

- ☐ The air shutter on the burner stem must be secured to a minimum opening of 3/16" for Natural Gas. Propane Gas must be secured to a minimum opening of 5/16".
- ☐ Check to make sure the logs and rock wool have all been placed correctly. (Refer to Steps 4 and 5 on page 13.)
- ☐ Check to see that all wiring is correct and enclosed to prevent possible shock. This is done by opening the access panel (follow Step A below) to access the control area.
- ☐ Check to ensure there are no gas leaks. This may be done with a soap and water solution.
- ☐ Make sure the firebox door is sealed and in its proper position. Never operate this heater with the door removed or not sealed.
- ☐ Door has door handle in place.
- ☐ All prints and smudges must be wipe clean from the gold door/trim prior to initial burn.
- ☐ Verify that all venting and caps are unobstructed. Exhaust gases are extremely hot. Be sure there are no possible future obstructions from trees, bushes, snow drifts, etc.
- ☐ Read and understand these Instructions thoroughly before attempting to operate this heater.

A. Opening the access panel. The access door, located at the base of the heater in the front, opens simply pulling on the handle. See Figure 21. This will expose the gas valve and pilot controls as shown in Figures 25 through 27.

B. Fan Operation - To turn the fan on simply turn the knob, located on the lower left panel, to the right.

Note: The fan will not turn on until the heater has reached its proper operating temperature. This is determined by a thermal disc in the fan assembly. Also, the fan will continue to run until the heater has cooled sufficiently after shutdown.

C. Firebox entry/handle removal

To gain access into the firebox, simply unscrew the handle of the door. See Figure 23. Next, remove the center screw with a phillips screwdriver as shown in Figure 24.

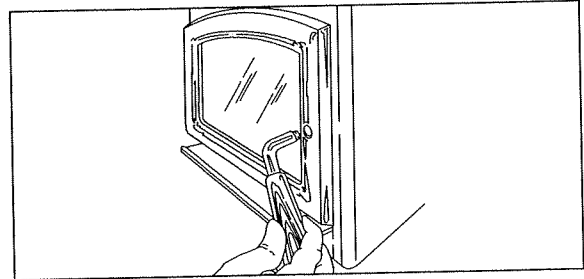


Figure 23
Door Opening

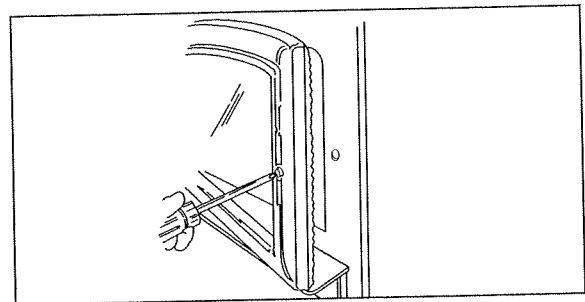


Figure 24
Door Opening



VI. OPERATING INSTRUCTIONS

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING

IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

- A. This heater has a pilot which must be lighted either by hand or with a push button piezo. When lighting the pilot, follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the heater area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
WHAT TO DO IF YOU SMELL GAS
 - Do not try to light any heater.
 - Do not touch any electric switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it; call a qualified service technician. Forced or attempted repair may result in a fire or explosion.
- D. Do not use this heater if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water.

WARNING

CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURES 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 HEATER.

CAUTION

**ANY SAFETY SCREEN OR GUARD REMOVED FOR SERVICING AN APPLIANCE MUST BE REPLACED PRIOR TO OPERATING THIS APPLIANCE.
CLOTHING OR OTHER FLAMMABLE MATERIAL SHOULD NOT BE PLACED ON OR NEAR THE HEATER.**

NOTE: All prints and smudges must be wiped clean from the gold door trim *prior* to initial burn. If this is not done, these prints will be cured into the gold finish and set for the life of the stove.
To keep the finish looking its best, gently wipe

with a soft cloth. If desired, use a non-abrasive cleaner such as soap and water, window cleaner, or vinegar and water. Never use any solvent, thinner, or abrasive cleaner since these will damage the finish.



1. Initial and Seasonal Lighting Procedure. Initial lighting constitutes the first time the heater has been lit after installation. Seasonal lighting refers to lighting the heater after it has been unused and the gas valve has been turned to OFF.

Be sure the switch (located on the lower left panel)/thermostat and the gas knob (located inside the valve access) have been turned to the OFF position. See Figure 27. If they are not, do so and allow the heater to sit for five minutes so any gas that may have accumulated in the main burner compartment escapes.

Turn the gas knob to PILOT, as shown in Figure 28, and press in. While holding it in, light the pilot by pressing the red ignitor button several times until the gas ignites. Continue to hold in the gas knob for about one minute after the pilot is lit. Release the gas knob. The pilot should remain lit. If it goes out, turn everything to the OFF position, let it sit for five minutes and repeat this step again.

When the pilot remains lit, turn the gas knob to the ON position. See Figure 29. You may now turn the switch/thermostat to the ON position which will ignite the main burner. Watch your heater display beautiful, dancing flames. Initially, the flames may have more of a blue color but after the first 20 minutes of operation, they will become more yellow.

2. Seasonal Shutdown. When the burning season comes to an end, the entire system should be shut down. This way, no gas will be running to the heater while it is not in use.

To shut down the heater for a long period of time, you must first shut off the main burner by moving the switch to the OFF position.

The next step is to open the valve access to expose the wiring system. (Follow Step A on page 16.) Locate the gas knob and turn it to the PILOT position. Press in slightly and continue turning to the OFF position. Your entire system is now shut down.

3. Lighting Procedure During Regular Use.

Simply turn the switch/thermostat to the ON position. This will ignite the main burner.

4. Shutdown During Regular Use. Simply turn the switch/thermostat to OFF. This will disengage the burner and the flames will extinguish.

When first operated, this unit may release an odor for the first several hours. This is caused by the curing of the paint and the burning off of any oils remaining from manufacturing. Glass will also require cleaning after the initial burn. (Instructions for cleaning the glass are given on page 20.)

Each time this heater is lit, it will cause condensation and fog on the glass. This condensation and fog will disappear in a few minutes.

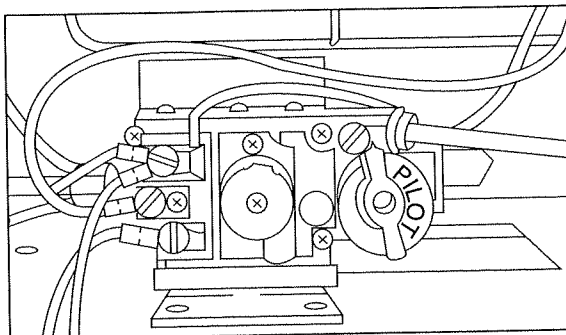


Figure 25
Standing Pilot Ignition Valve "OFF"

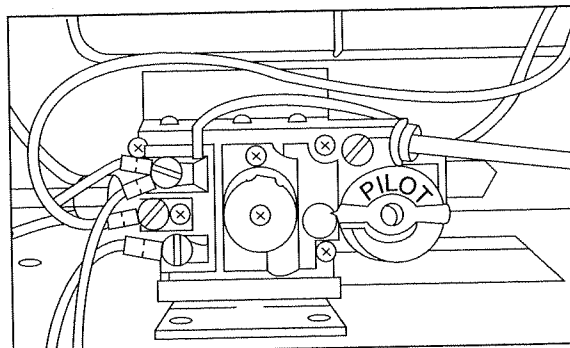


Figure 26
Standing Pilot Ignition Valve to "PILOT"

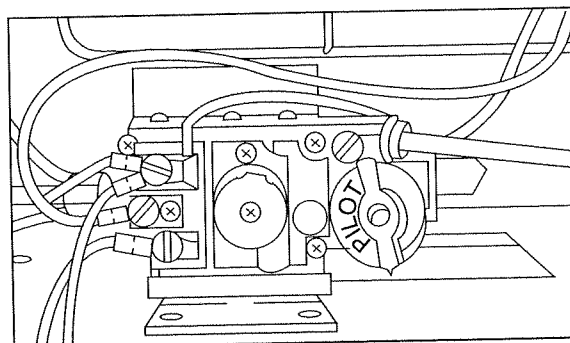


Figure 27
Standing Pilot Ignition to "ON"

Note: Keep the area near the heater clear and free from combustible materials, gasoline and other flammable vapors and liquids.



VII. MAINTENANCE INSTRUCTIONS

Cleaning the burner and control compartment

Keep the burner and control compartment clean by using a clean, dry paint brush and vacuum at least once a year. Always turn off the gas valve and the switch before cleaning. (See Step 2, page 18.)

Checking flame patterns

Visually check the flame of the burner periodically, making sure the flames are steady; not lifting or floating. The flame color should be blue with yellow tips. The thermopile tip should be covered with flame. See Figure 28.

Venting system inspection

The heater and venting system should be inspected before use each season, and at least annually, by a qualified service person, to ensure that the flow of combustion and ventilation air is not obstructed.

Cleaning the glass

It is recommended to wear gloves while handling or removing the door. **DO NOT REMOVE THE DOOR WHEN HOT.**

Note: When cleaning the glass, **NEVER** use abrasive materials. **NEVER** clean glass when hot.

To open the door for cleaning, follow item C on page 16.

To clean the glass, use a non-abrasive, mild cleaning solution. (For example, a glass cleaner or for stubborn film, an oven cleaner.) Simply apply an adequate amount to the glass and wipe off with a damp cloth. Please be sure all cleaner is thoroughly rinsed from the glass.

Never operate this heater without the glass properly secured in place or if the glass is broken.

In the event of glass breakage, follow door removal instructions. This will allow the removal of all glass fragments and sheet metal edge protection strips. Vacuum all remaining glass pieces with a shop vac. (DO NOT VACUUM IF PIECES ARE HOT.) Replace door only with ARROW part number CD7 or CD8 ordered direct or through your local distributor. Never use substitute material. Only ceramic glass may be used on this heater.

Log cleaning

Logs can be easily lifted out of position. Carbon build-up can be removed with a vacuum cleaner.

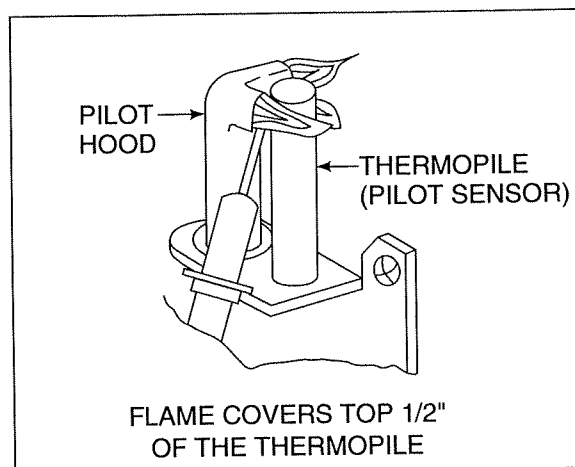


Figure 28
Standing Pilot

NOTE: All prints and smudges must be wiped clean from the gold door prior to initial burn. If this is not done, these prints will be cured into the gold finish and set for the life of the stove.

To keep the finish looking its best, gently wipe with a soft cloth. If desired, use a non-abrasive cleaner such as soap and water, window cleaner, or vinegar and water. Never use any solvent, thinner, or abrasive cleaner since these will damage the finish.



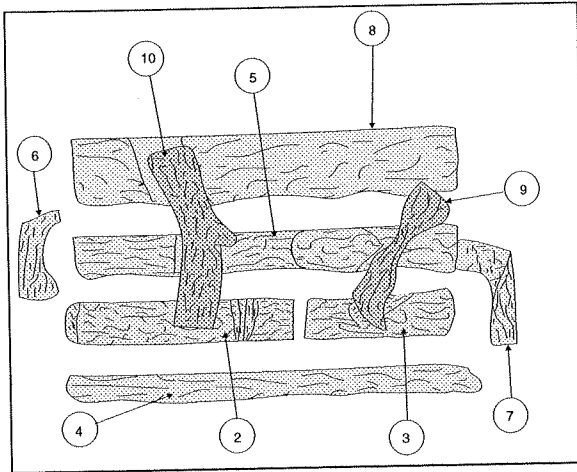
VIII. TROUBLE SHOOTING

Problem	Cause	Corrective Action
1. Burner will not ignite	A. 110 volts of electrical current has burned out the wall switch.	Remove voltage and replace valve and thermopile.
2. Spark ignitor will not light the pilot after repeat pressing of Red Button.	A. Defective ignitor. B. Misaligned ignitor.	Check for loose connections on ignitor. Check for spark. If ignitor connection is correct and no spark, replace ignitor. Spark should be extending approx. 1/8" to the bottom of the pilot hood. Adjust gap to give proper spark. Remove hands from ignitor before pressing Red Button.
3. Pilot light will not stay lit.	A. Defective pilot thermopile.	Check pilot flame. See Figure 26. Adjust flame if necessary. Be sure thermopile is secured tight into pilot bracket. Be sure wiring connections are tight throughout system. Check thermopile voltage with millivolt meter. Depress valve knob and light pilot. Meter should read min. of 325 millivolt. If not, replace the thermopile.
4. With pilot lit, valve and on/off switch in "On" position, no gas to burner.	A. On/off switch defective. B. Plugged burner orifice.	Check on/off switch for proper connections. Connect wires across terminal at on/off switch. If burner comes on, replace on/off switch. If burner does not come on, connect to on/off switch junctions at valve. If burner comes on, replace wires. Check burner orifice; remove blockage.
5. Glass Fogs up.	A. A normal result of gas combustion.	No action is necessary. After the heater has warmed up, the glass will clear.
6. Blue flames	A. A normal result during the first 20 minutes of burning.	No action is necessary. Flames will begin to turn more yellowish after about 20 minutes of burning.

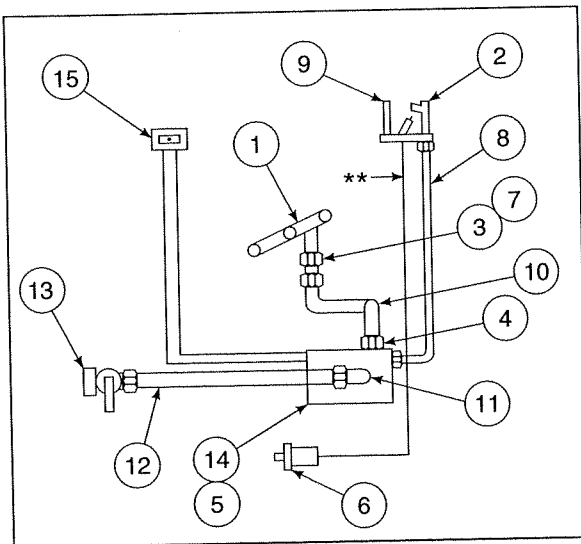


IX. REPLACEMENT PARTS

Replacement parts are available from your distributor/dealer, or through ARROW/DOVRE customer relations, Heatilator Inc., 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641.



The color of the logs in this installation does not indicate the actual color of the logs. It is for definition only.



** If any of the original wiring as supplied with the heater must be replaced, it must be replaced with Type 18 ga., 105C wire, or its equivalent.

ITEM	PART NO.	DESCRIPTION
1	21610	DVi10 Log Assembly
2	21328	Front Log Left
3	21329	Front Log Right
4	21330	Front Log
5	21331	Middle Log
6	21332	Outer Log Left
7	21333	Outer Log Right
8	21334	Back Log
9	22092	Top Right Log
10	17133	Top Left Log
11	14333	Mineral Wool

ITEM	PART NO.	DESCRIPTION
1	20433	Burner
2	13406 13444	Pilot Assembly - Natural Pilot Assembly - Propane
3	21637 18678	Orifice - Natural Orifice - Propane
4	17069	Male Connector - Brass
5	71728 71729	Valve w/Hi-Low Reg (Nat. Gas) Valve w/Hi-Low Reg (Prop. Gas)
6	13416	Push Button Ignitor
7	21352	90° Bulkhead Elbow
8	20435	1/4" Pilot Tubing (Robertshaw)
9	13411	Thermopile (Pilot Sensor)
10	20436	3/8" Gas Tubing (Robertshaw)
11	17069	Male Connector Brass
12	15696	Flex Gas Line
13	15697	On/Off Valve
14	21602	3/8" x 2.5" Pipe Nipple
15	12652	On/Off Switch
16	22048	3/8" x 3/8" MF to FNPT





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Attention

INSTALLER

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