

POWER VENT INSTALLATION INSTRUCTIONS VERTICALLY TERMINATED

NOTE: This kit must be installed by a qualified installer. These instructions are to be used in conjunction with the fireplace installation manual to insure proper installation.

AA-11-04100 – Vertical Power Vent Kit: Vent runs up to 80 feet in length.

This component kit is to be with all Power Vent Kits

AA-11-05379 Power vent component kit for 4" x 6-5/8" vented fireplaces. The instructions for this kit are at the end of this document.

ATTENTION: This installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1.

All electrical installations should be performed by a qualified electrician to the Canadian and U.S. National Electrical Codes (CSA C22.1 for Canada), (ANSI/NFPA 70 for the U.S.) and/or local electrical codes.



REQUIRED TOOLS AND COMPONENTS

Tools

- Phillips Head Screw Drive
- Allen Wrenches
- 1/4" Hex Driver.
- Wire Stripper
- Caulk Gun

Components – NOT INCLUDED WITH THE POWER VENT.

- 14/2 SOLID COPPER WIRE
The power vent kit must be wired to the fireplace using 14/2 solid copper wire. Required wire length will depend on vent run length.
- Weather sealant. Used to seal around the power vent.

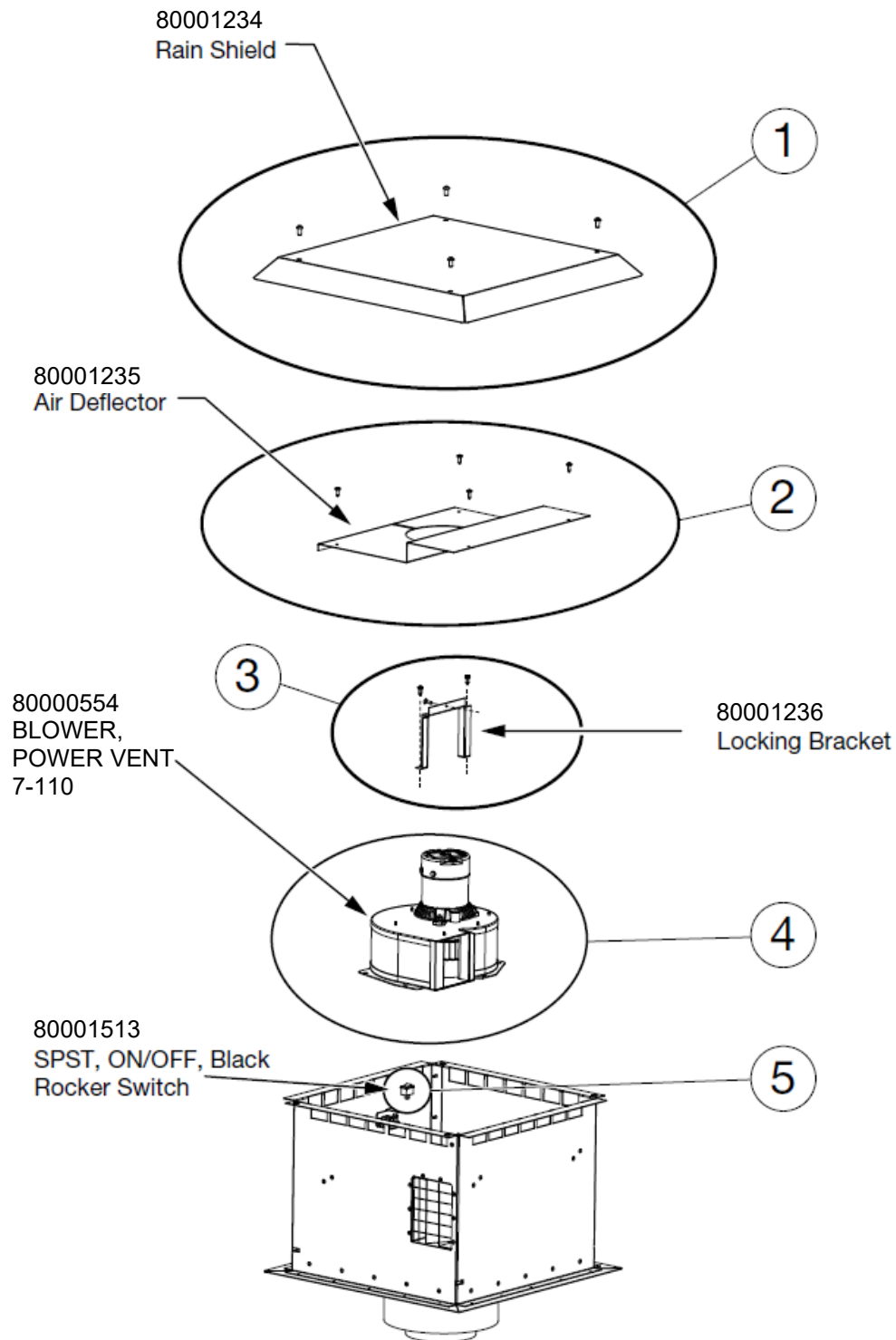
Table of Contents

REQUIRED TOOLS AND COMPONENTS	1
Tools	1
Components – NOT INCLUDED WITH THE POWER VENT.....	1
POWER VENT KIT SERVICE PARTS	3
POWER VENT	3
RISER	4
DIMENSIONS.....	5
POWER VENT	5
RISER	6
VENTING CONFIGURATIONS	7
VENT PIPE	7
VENT STARTER HEIGHT REQUIREMENT	7
OPTION FOR FIREPLACES WITH A 5" X 8" STARTER COLLAR	7
VENT RUN CHART	8
EXTERIOR VENT LOCATIONS AND RESTRICTIONS	9
RISER	9
INSTALLING THE POWER VENT	10
WIRING THE POWER VENT	12
CONTROL MODULE PREPERATION	15
WIRE HARNESS PREPARATION	22
FIREPLACE PREPARATION	23

INSTALLER: Leave this manual with the appliance.
 CONSUMER: Retain this manual for future reference.

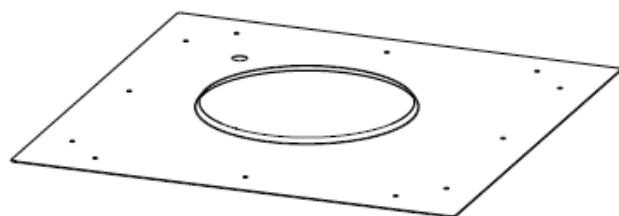
POWER VENT KIT SERVICE PARTS

POWER VENT

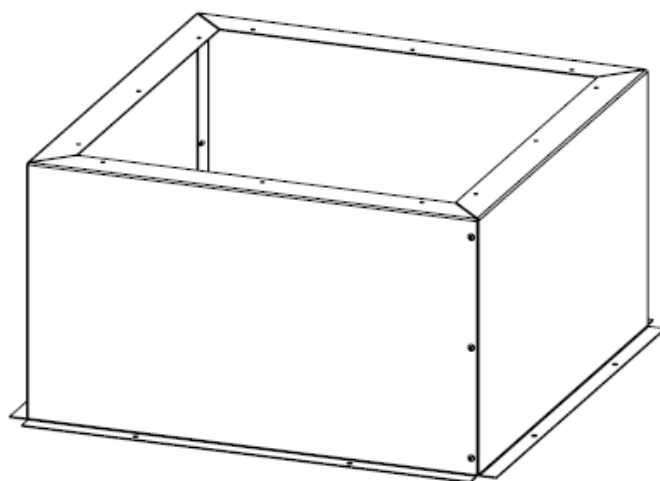


RISER

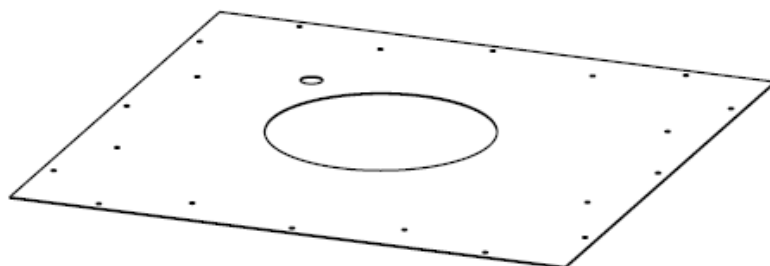
80002101 RISER ASSEMBLY



Upper riser plate



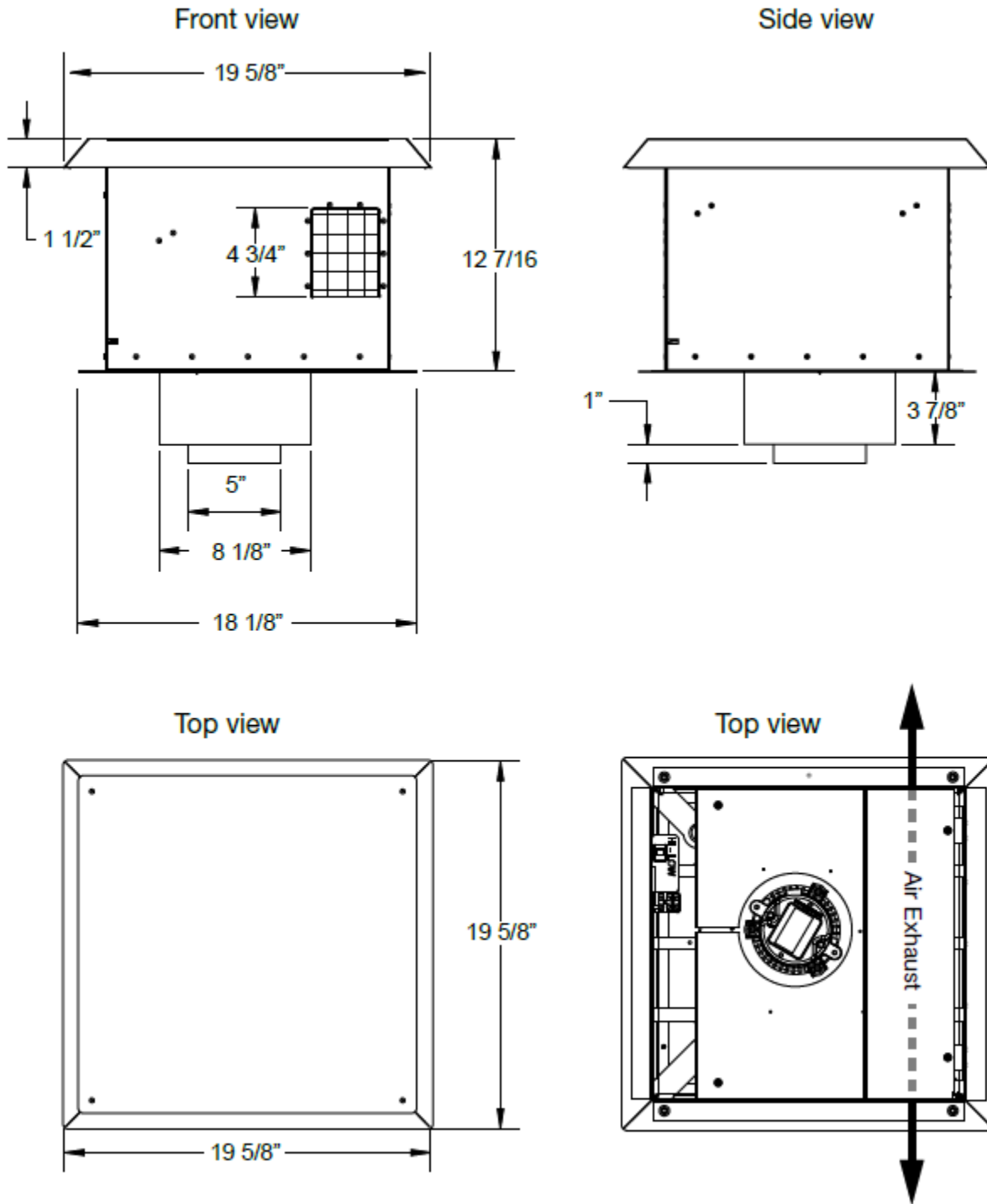
Riser



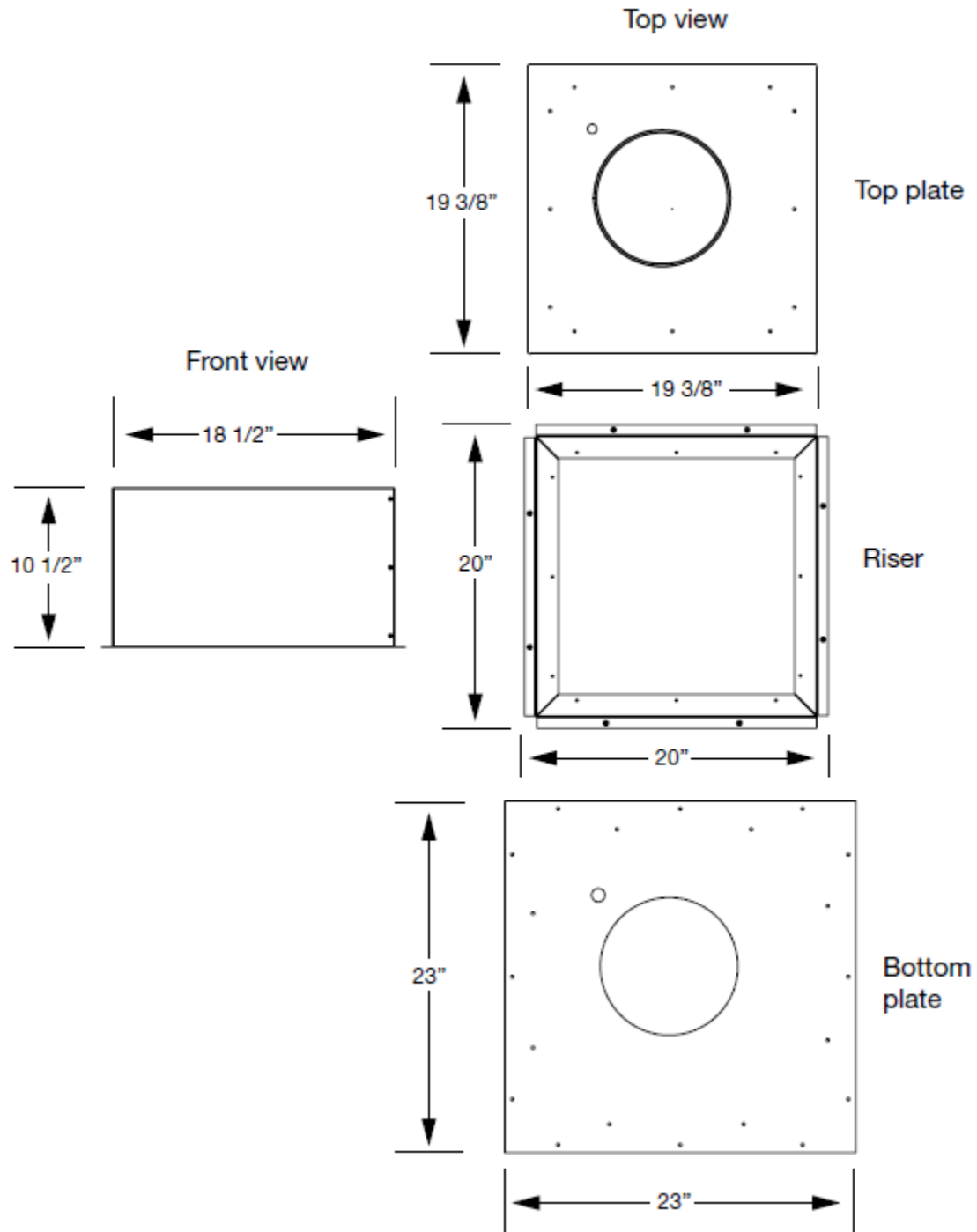
Lower riser plate

DIMENSIONS

POWER VENT



RISER



VENTING CONFIGURATIONS

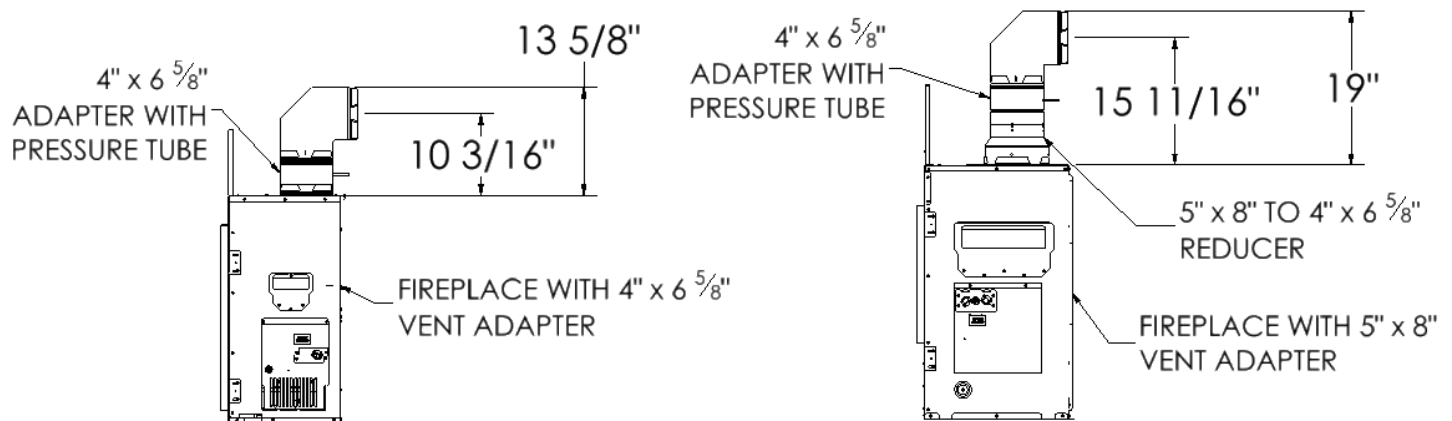
VENT PIPE

Consult fireplace manual for approved vent pipe size and type. For all installations rigid, coaxial vent pipe is required. For all power vent approved fireplaces 4" x 6 5/8" direct vent pipe should be used. A reducer is included in the power vent accessory kit to reduce the venting on fireplaces that come with a 5" x 8" vent.

VENT STARTER HEIGHT REQUIREMENT

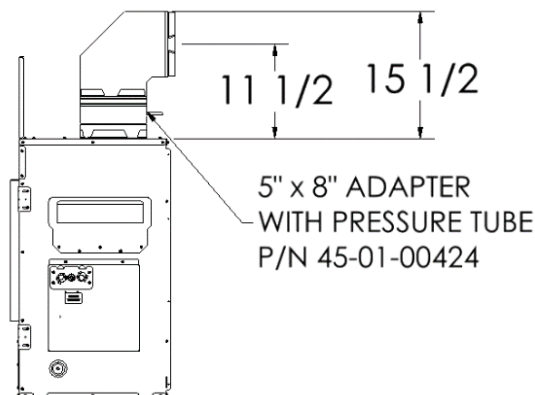
The vent adapter with a pressure tube must be connected to the fireplace starter collar. Installing the adapter results in a minimum vertical rise off the top of the fireplace. The adapter with the pressure tube is a 6" long vent. The reducer is 7 1/2" long. Minimum heights for venting from the top of the fireplace are shown in the drawing below.

ATTENTION: Vent pipe clearances to combustible material must be maintained to 3" above vent pipe and 1" on sides and bottom.



OPTION FOR FIREPLACES WITH A 5" X 8" STARTER COLLAR

On fireplaces with a 5" x 8" starter collar 5" x 8" venting can be used if necessary. To use 5" x 8" venting a 5" x 8" adapter with pressure tube (Part Number 45-01-00424) must be purchased separately.

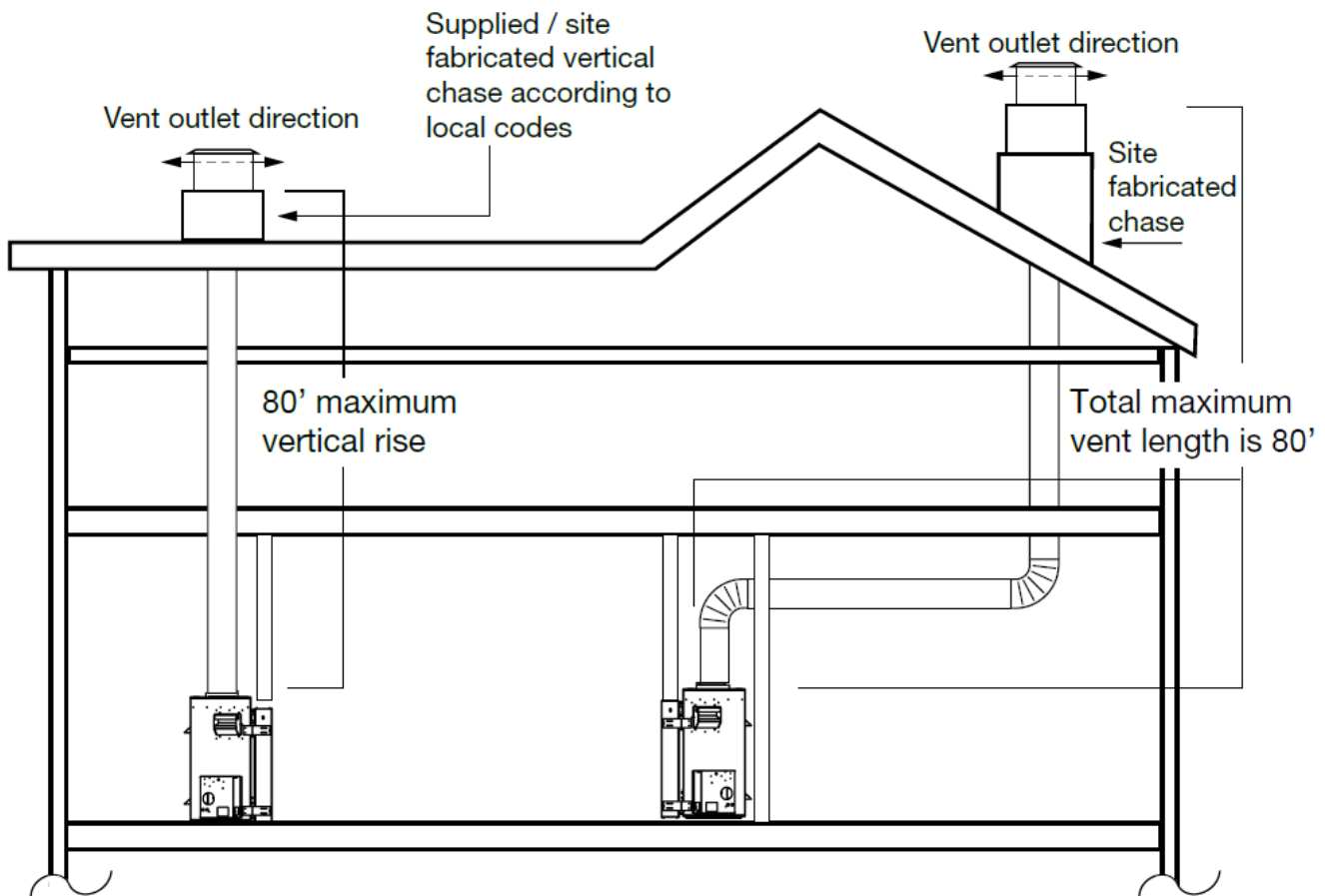


VENT RUN CHART

ATTENTION: Vent pipe clearances to combustible material must be maintained to 3" above vent pipe and 1" on sides and bottom.

- The total vent length must be a minimum of 3 ft. to a maximum of 80 ft.
- Up to six 90° elbows or combination of other elbows equaling 90° (For example two 45° elbows = one 90° elbow) can be used in the venting run.
- Venting can be installed with any combination of rise and run.

Reference the diagram below for approved venting configurations.

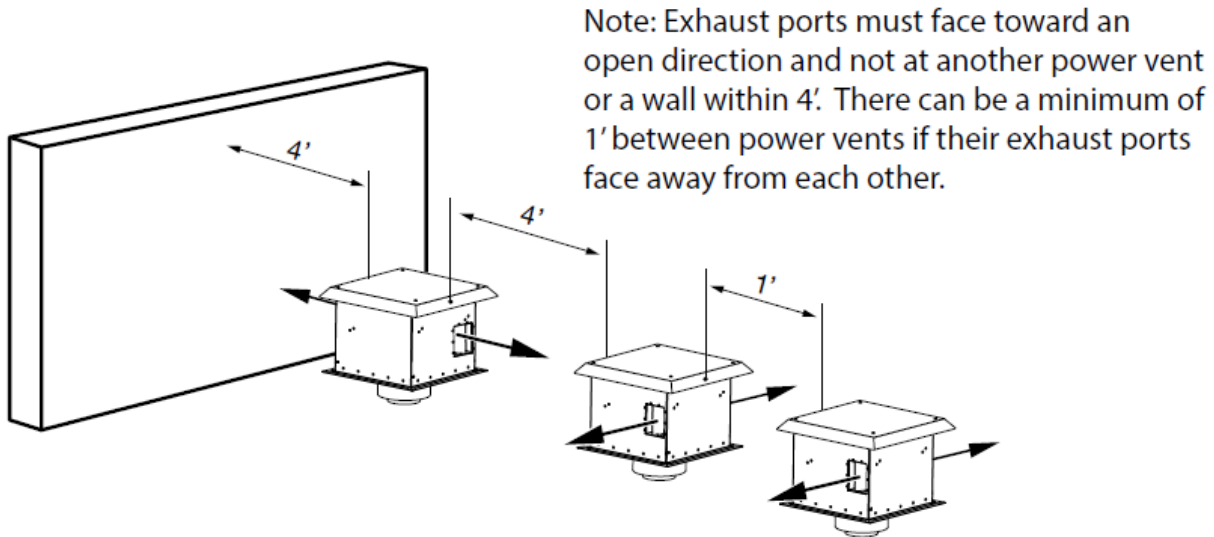


EXTERIOR VENT LOCATIONS AND RESTRICTIONS

Minimum clearances to the vent terminal must be maintained as shown below. Measure clearances to the nearest edge of termination hood.

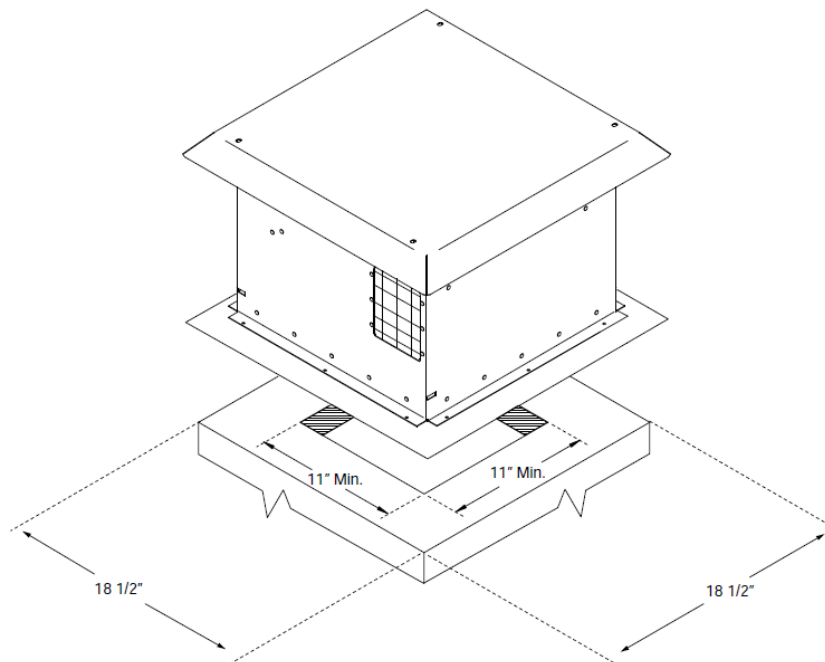
NOTE: Local codes or regulations may require different clearances.

NOTE: For flat roof installations, check local codes for elevated platform dimensional requirements.



RISER

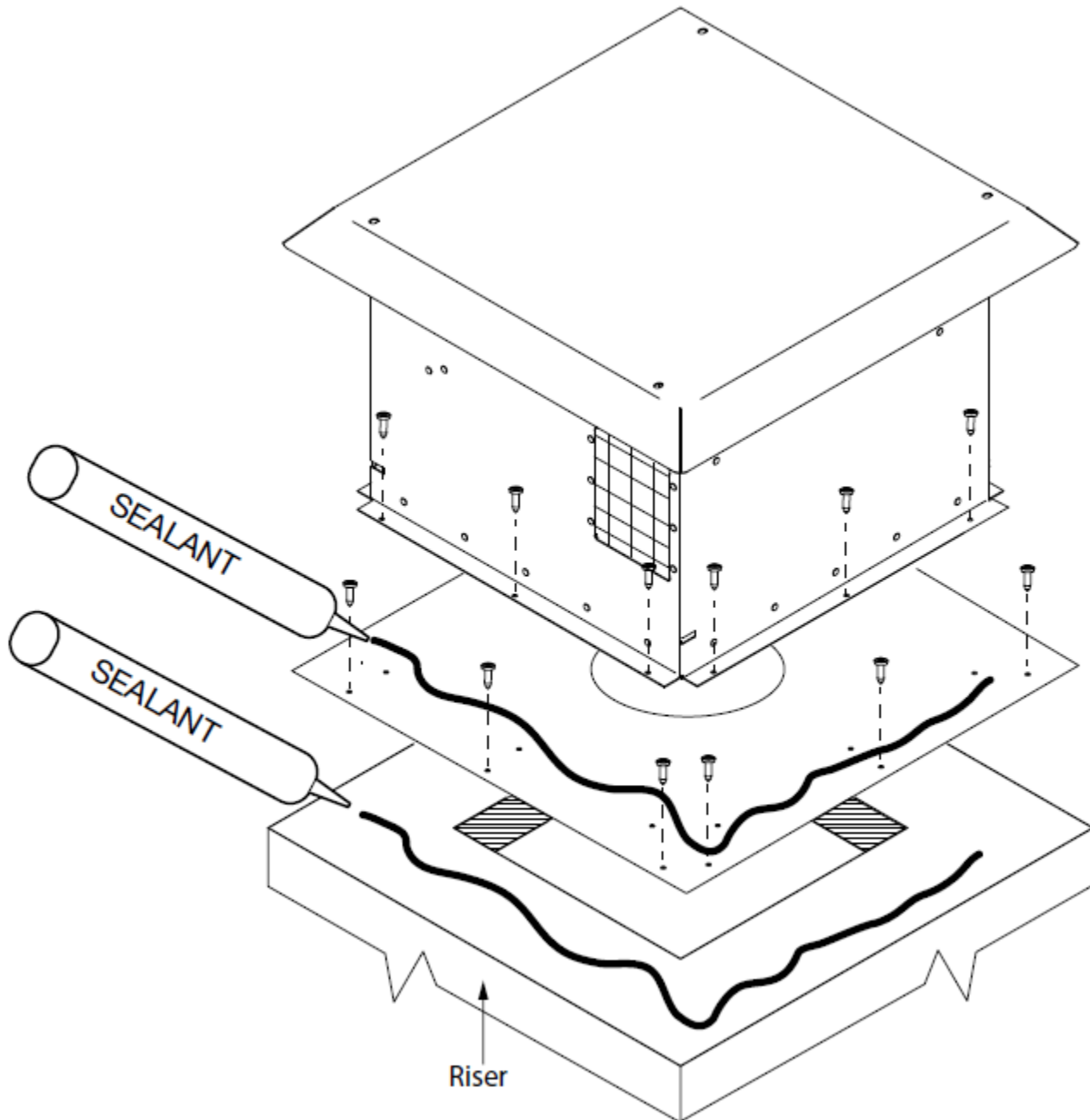
A site fabricated riser or standoff must be built to elevate this power vent from any surface where water or snow could accumulate at the power vents base if not using supplied riser. Consult local codes to determine the height of this chase or standoff.



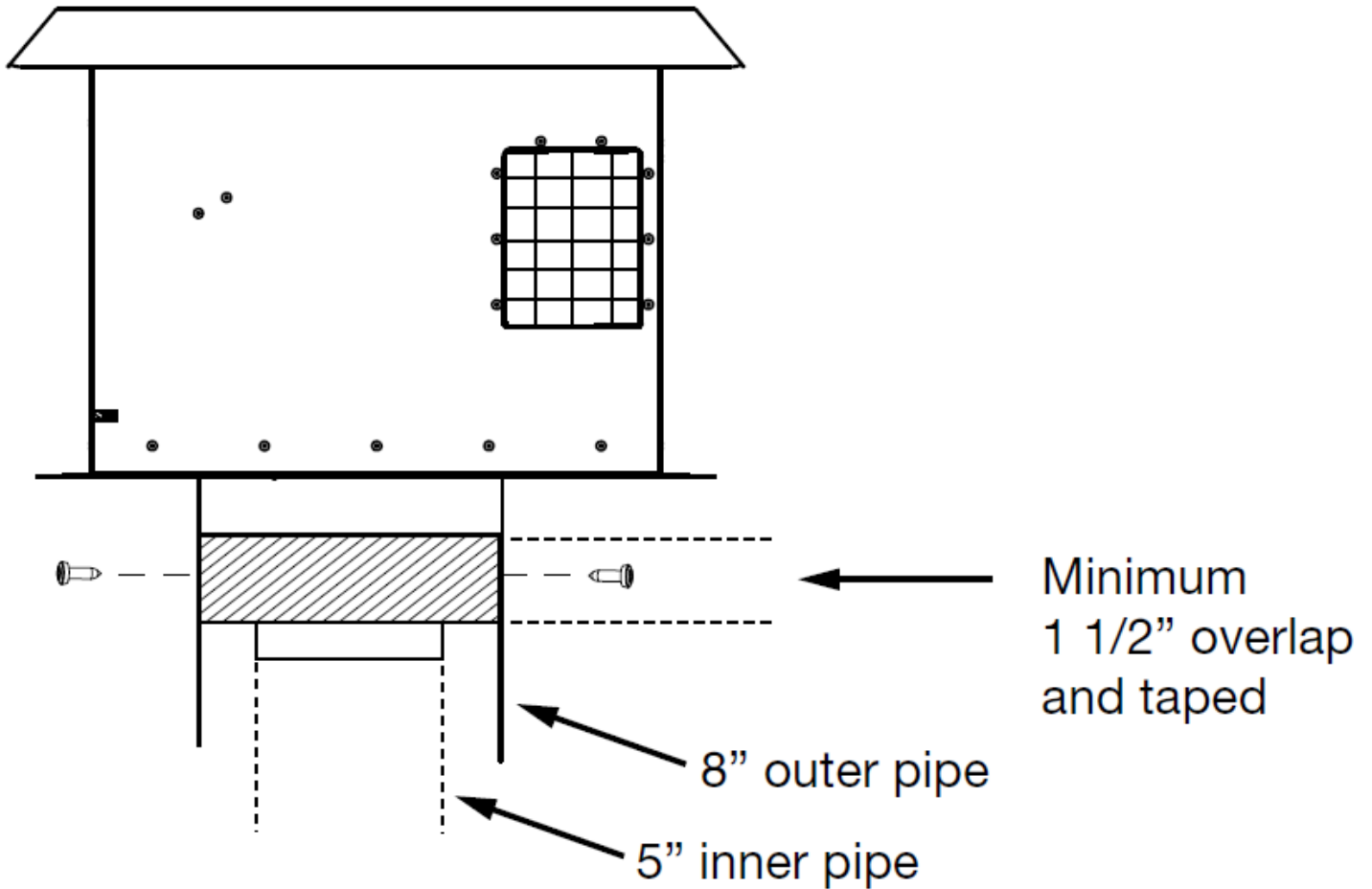
INSTALLING THE POWER VENT

The power vent attaches to the upper riser plate with three screws along each edge of the base. The upper riser plate is then attached to the included or site fabricated riser.

Use weather sealant between the power vent and upper riser plate and the riser as necessary to prevent moisture from entering the power vent unit and building. Flash according to local codes.



When attaching venting to the power vent insure that the vent tube overlaps the power vent tubing at least 1 1/2" so that the vent can be secured with screws. The joint should also be taped with aluminum ducting tape.



WIRING THE POWER VENT

The fireplace will have a junction box with two strain relief clamps. See the installation manual included with the fireplace for the location of the junction box. To connect the power vent to the fireplace, follow these steps.

1. Remove the junction box cover plate from the side of the fireplace.
2. To connect the power vent, 14/2 solid copper wire (not supplied with power vent kit) must be run from the fireplace to the power vent. The wire must maintain clearance to the venting of: 3" above the venting and 1" to the sides and below the venting.
3. Locate the plug shown below in the manual packet included with the fireplace. The plug is labeled TO POWER VENT.

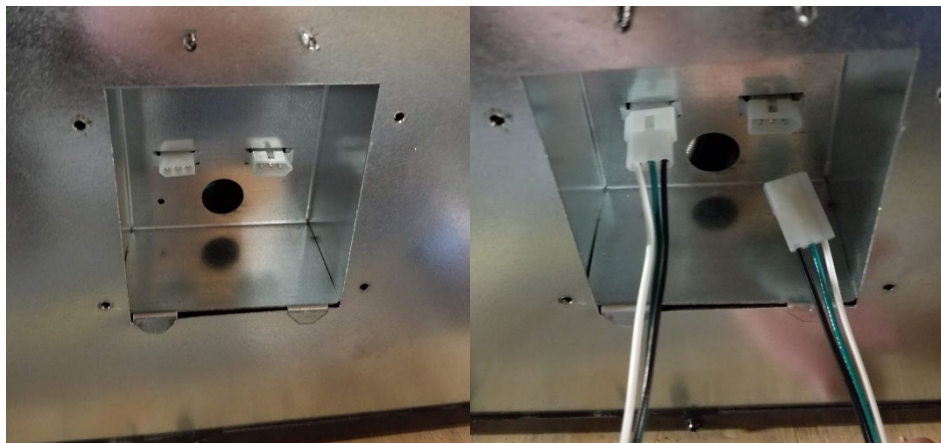


4. Strip the ends of the power vent wire. Feed the end of the 14/2 solid copper wire through one of the strain relief clamps on the junction box cover plate. Connect each color-coded wire to corresponding colored wires on the plug. White to White, Black to Black, and Ground to Green. Use the supplied wire nuts to connect each wire pair ends.



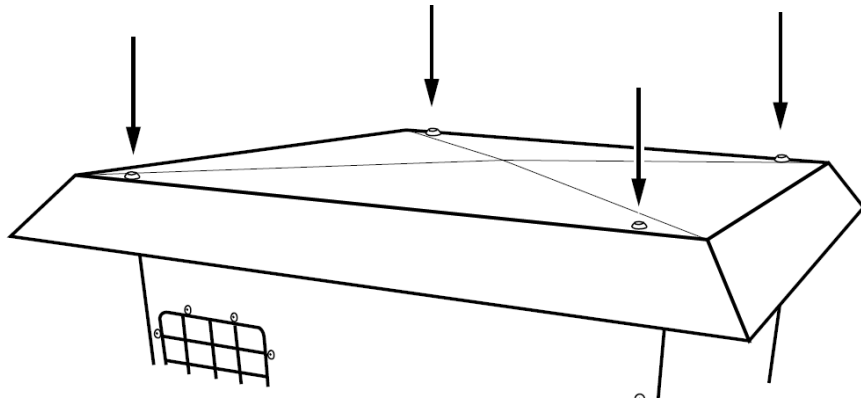
Note: When connecting two braided wires using wire nuts, strip both braided wire ends at least 1/2" and twist the two bare ends together before using wire nuts. When connecting a braided wire to a solid copper wire, strip the solid copper wire end 1/2" and the braided wire end 3/4". Twist the braided wire around the solid copper wire end before applying the wire nut.

5. There are two terminals located in the outlet box one is for house power and one is for the power vent. Plug the power vent wires into the terminal on the back of the outlet box. The plugs are designed so that they cannot be plugged into the wrong terminal. Follow directions in the fireplace installation instructions for connecting house power.

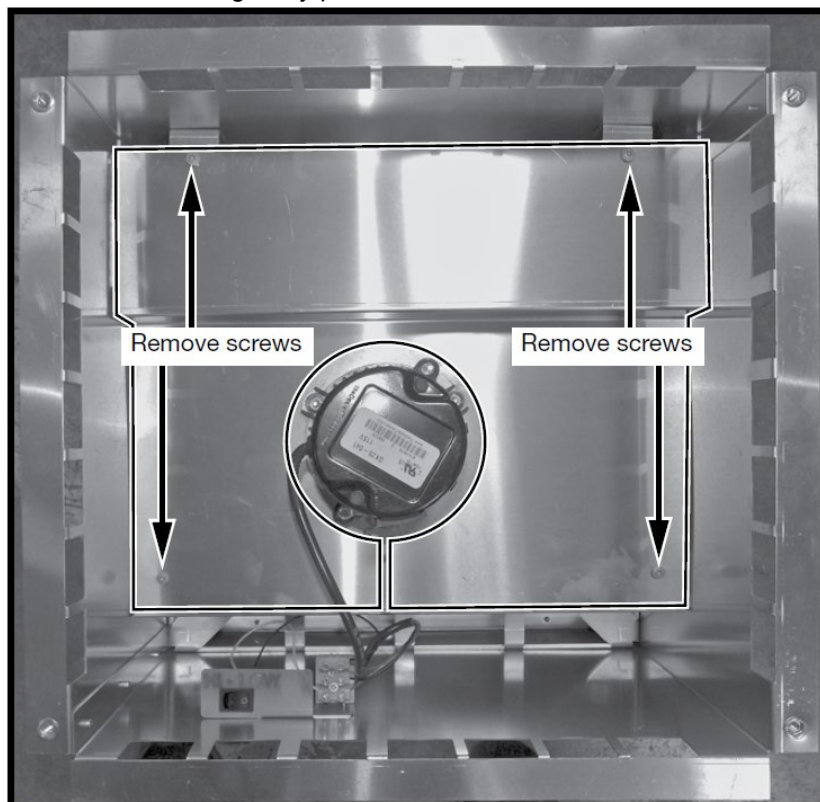


6. Once the wires are plugged in, place the wires into the junction box and reinstall the cover plate.

7. At the other end, the power vent wire must be wired to the power vent blower housing. The power vent has an electrical connector block mounted internally. The wiring must be connected to this block.
8. Remove the 4 hex screws holding the top cover in place and remove the cover.

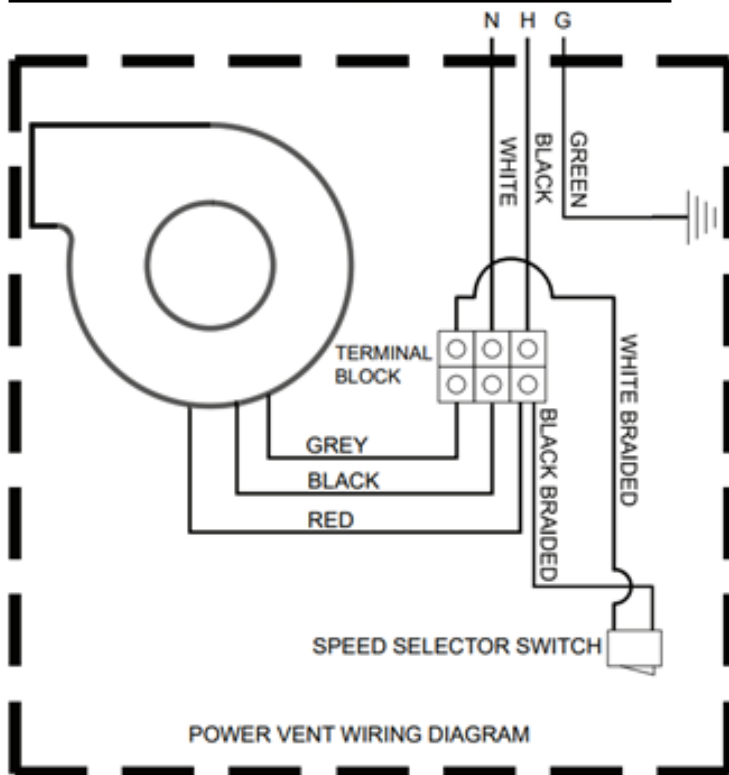
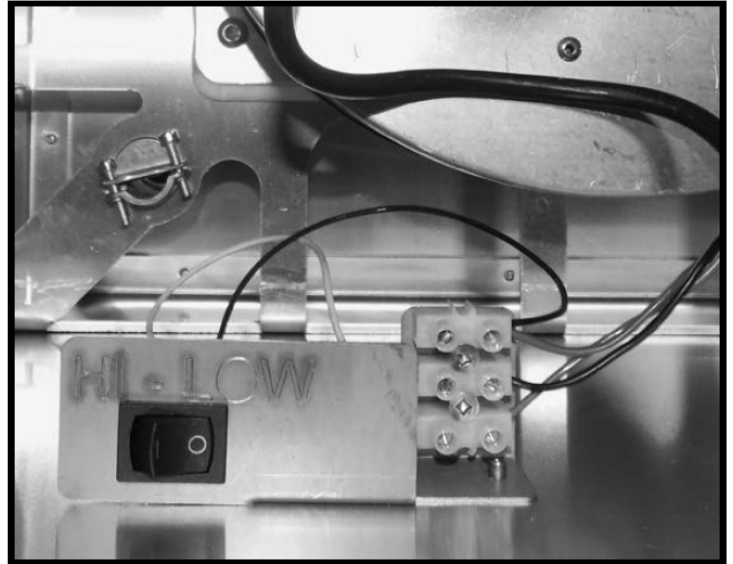
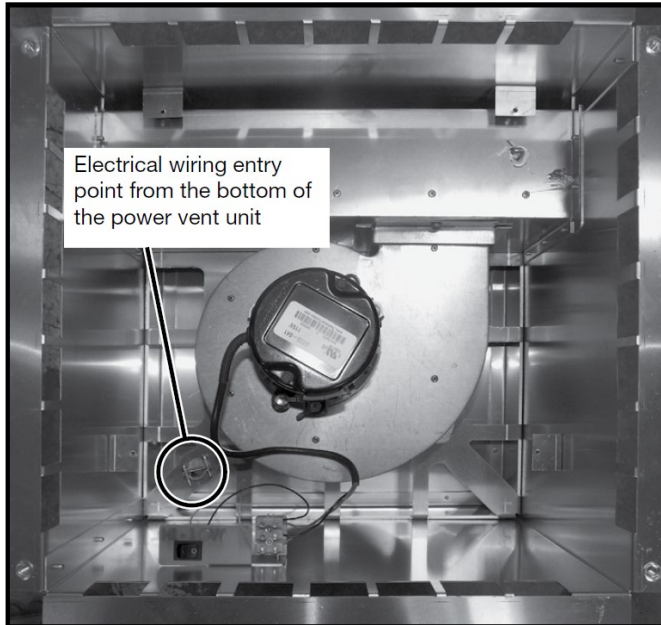


9. Remove the internal cover plate by removing 4 screws and slipping the plates slot around the motor wiring to remove. This exposes the electrical wiring entry point.



10. Run the electrical supply wire from the fireplace up through the bottom of the power vent and to the connector block inside the power vent assembly. Connect wires as shown and tighten the strain relief. Insure that the switch located beside the terminal block is toggled to high "HI".

ATTENTION: The switch located in the power vent must be toggled to high "HI".



11. Reposition the internal cover plate and blower cover and secure in place with the previously removed screws.

POWER VENT KIT INSTALLATION INSTRUCTIONS

AA-11-05379 Power vent component kit for 4" x 6-5/8" vented fireplaces.

For all installations rigid, coaxial vent pipe is required. For all power vent approved fireplaces 4" x 6 5/8" direct vent pipe should be used. A reducer is included in the power vent accessory kit to reduce the venting on fireplaces that come with a 5" x 8" vent.

Tools Needed

- Large Flat Blade Screwdriver
- Wire Cutters

CONTROL MODULE PREPERATION

The board will need to be opened to remove a component inside for the power vent to be operational. This can be done with the board still in the fireplace or it can be removed from the fireplace for easier access.

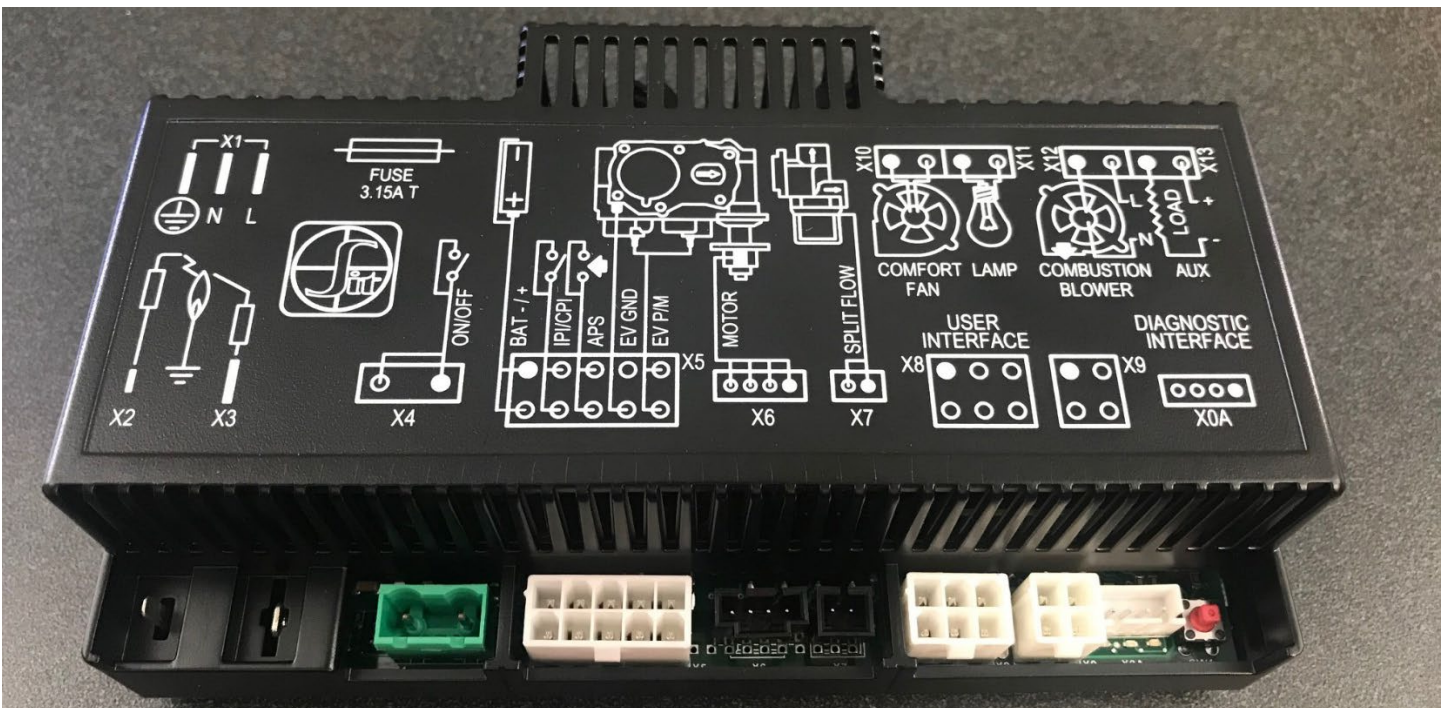
1. Use a flat blade screwdriver to carefully wedge the blade in between the 4 tabs on the control module and twist the screwdriver slightly to disengage the clips to remove the top cover.



2. Locate the pin cover circled in the top photo. Grab it with your fingers and pull it straight up to remove it. You may discard this piece.



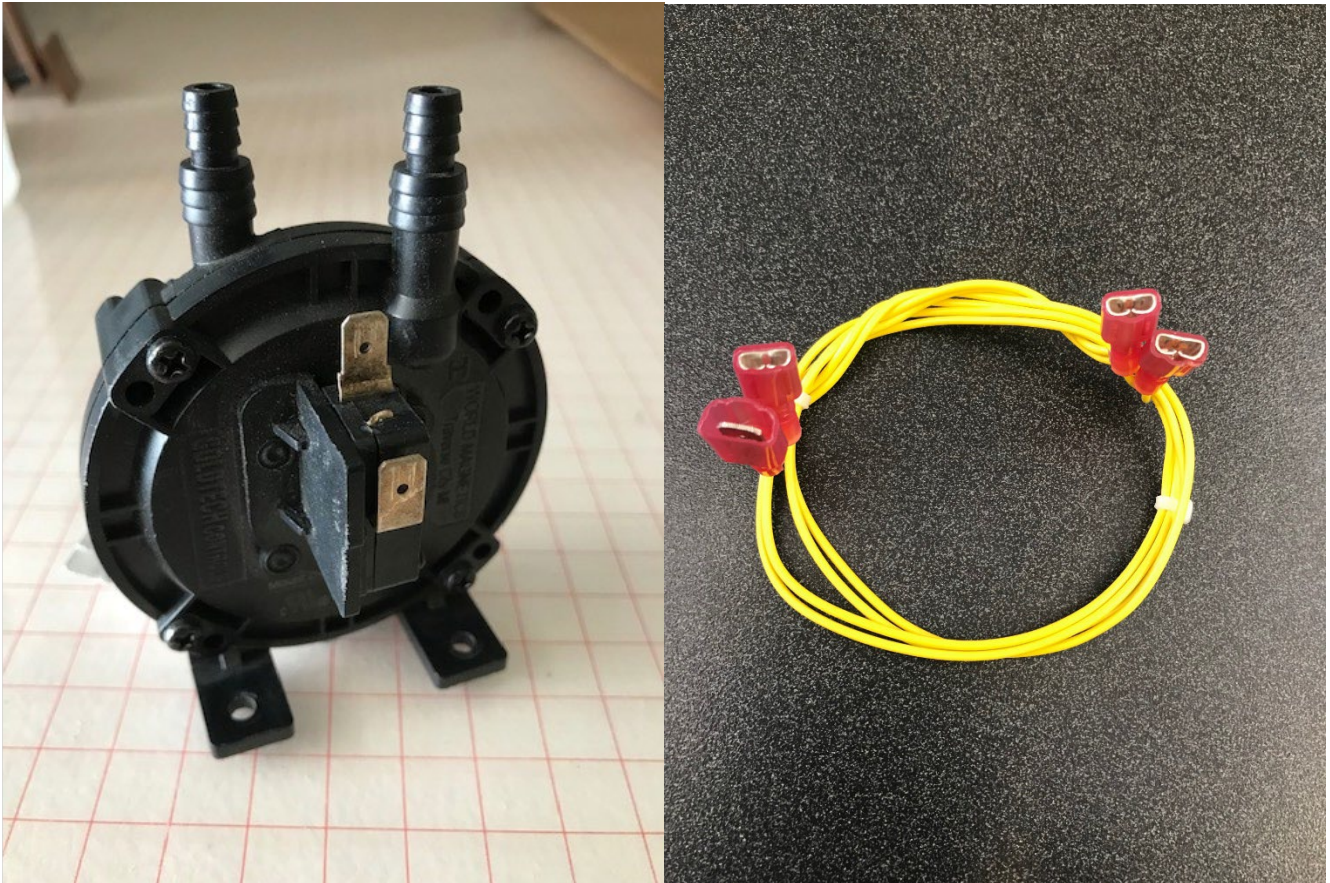
3. Place the top cover back onto the control module, make sure it is oriented properly, press lightly on the top cover till you hear a clicking sound engaging the retaining clips.
4. Re-install the control module back into the fireplace if it was removed.



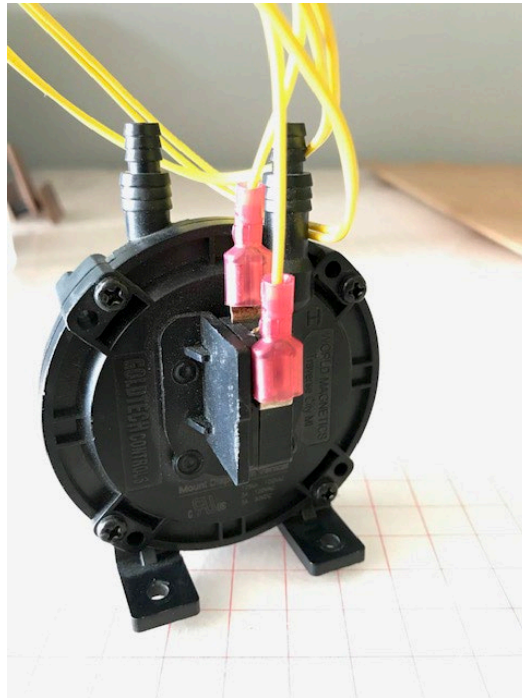
PRESSURE SWITCH PREPARATION

To begin preparation on the pressure switch you will first need to find the pressure switch, silicone hose, and power vent harness. The pressure switch and silicone hose are in the same box as these instructions. The power vent harness is the yellow harness with red quick connect connectors in the fireplace manual box.

1. Pressure switch and power vent harness.



2. Locate the end of the power vent wire harness with two female connectors. Connect this end of the power vent wire to the two silver terminals on the pressure switch marked "NO" and "COM". These can be connected in either order it does not make a difference.



3. Take the silicone hose and attach it to the hose barb on the pressure switch marked "L". This may not be visible, but it is opposing to the barb marked "H".



4. The pressure switch will be installed in the fireplace near the control module. The pressure switch must be installed vertically. The photos in the instructions show the pressure switch being placed in a ML series fireplace. For all fireplaces the pressure switch can be placed next to the control module in a similar way.



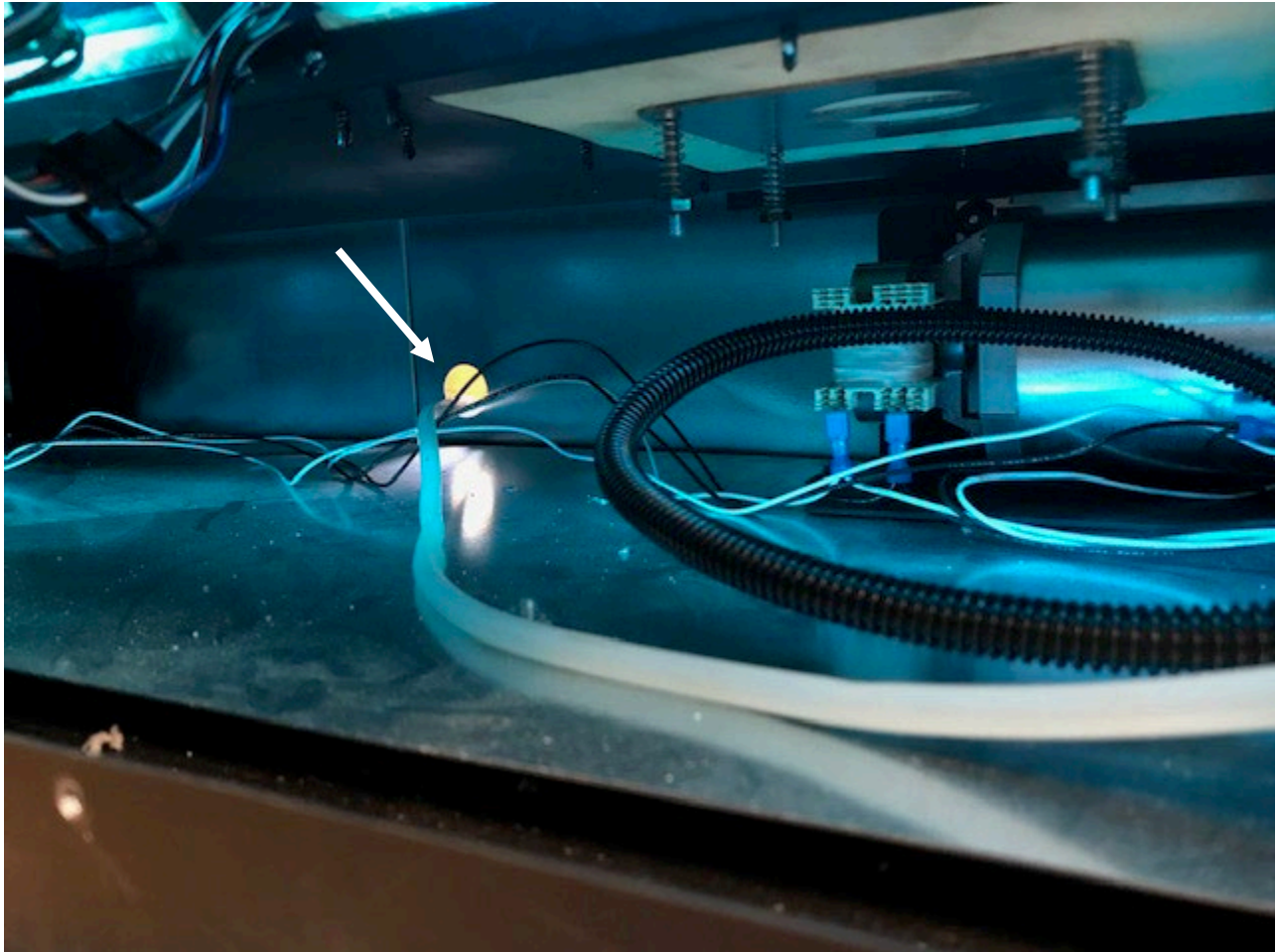
5. Peel the adhesive backing off the bottom of the pressure switch and place the pressure switch next to the control module as shown in the picture.



6. (ML-Series fireplaces) Route the silicone hose through the rear cutout of the fireplace. The cutout is located near the center of the fireplace at the bottom on the backside. The silicone hose can be routed from this hole to the pressure switch.

(FV-Series fireplaces) Route the silicone hose through the cut out in the access panel where the gas line is connected.

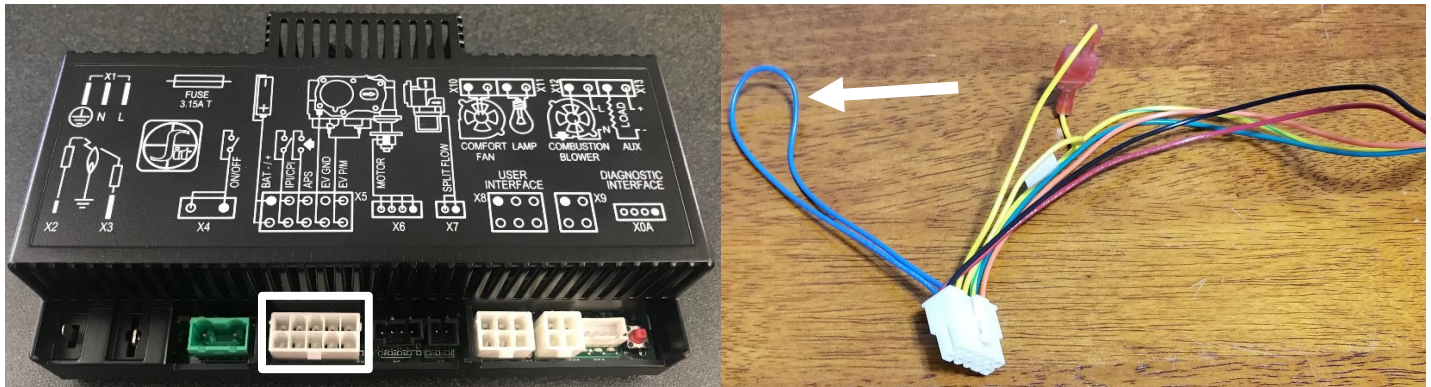
(DXV-Series fireplaces) Route the hose through one of the side cutouts where the gas line can be connected.



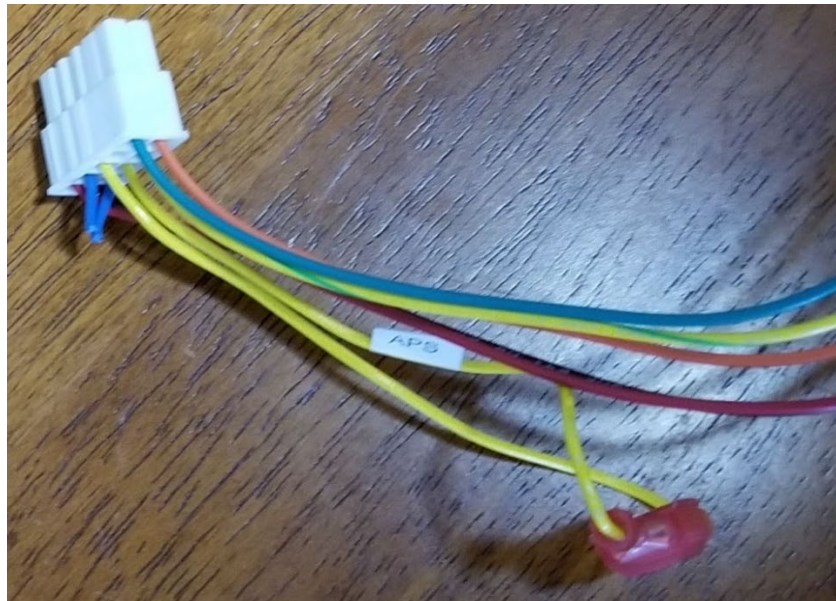
WIRE HARNESS PREPARATION

The wire harness needs to be modified for the power vent to be operational. You will need the wire cutters to remove a wire from the harness. The harness that needs to be modified will come already installed into the fireplace. This modification must be made to remove CPI mode.

1. Locate the harness that is shown below, it will be connected into the control module in the connector with the square around it. Then locate the blue wire that is looped on the Molex connector.



2. Using the wire cutters, remove the blue loop as best as you can from the wire harness.
3. Disconnect the red quick connect connectors on the loop marked "APS"



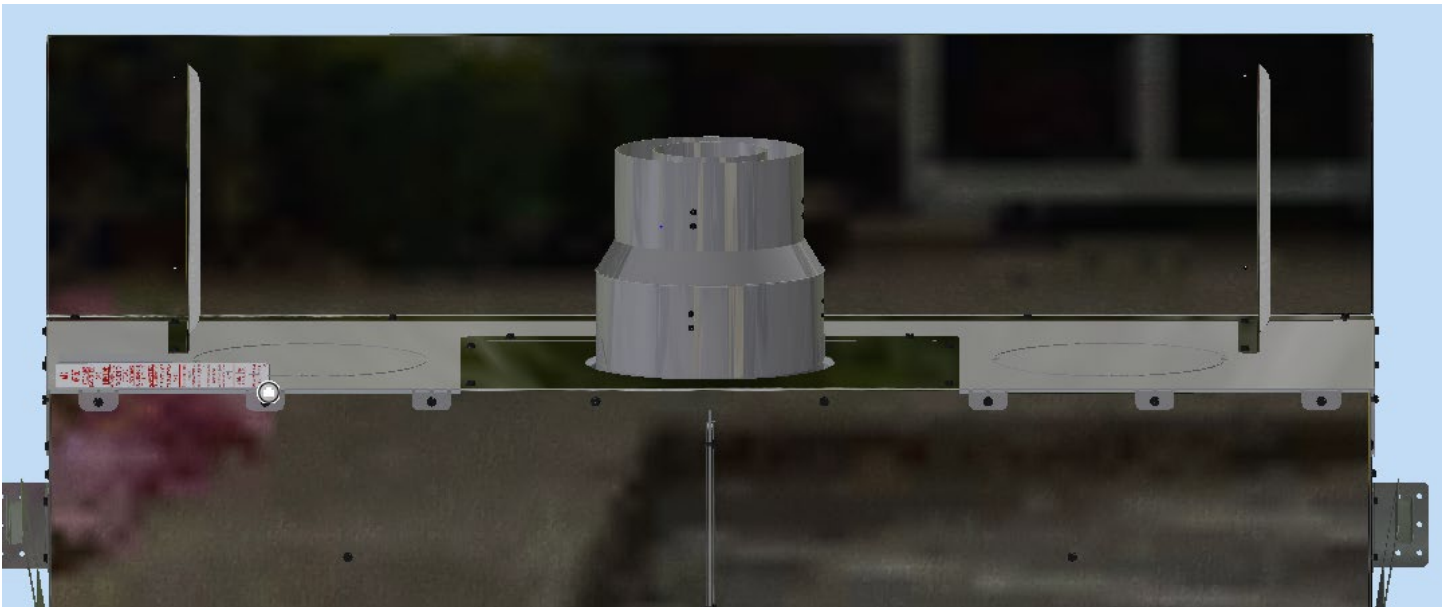
4. Connect the two red quick connect connectors on the harness to the two corresponding red quick connect connectors on the pressure switch wire harness.

FIREPLACE PREPARATION

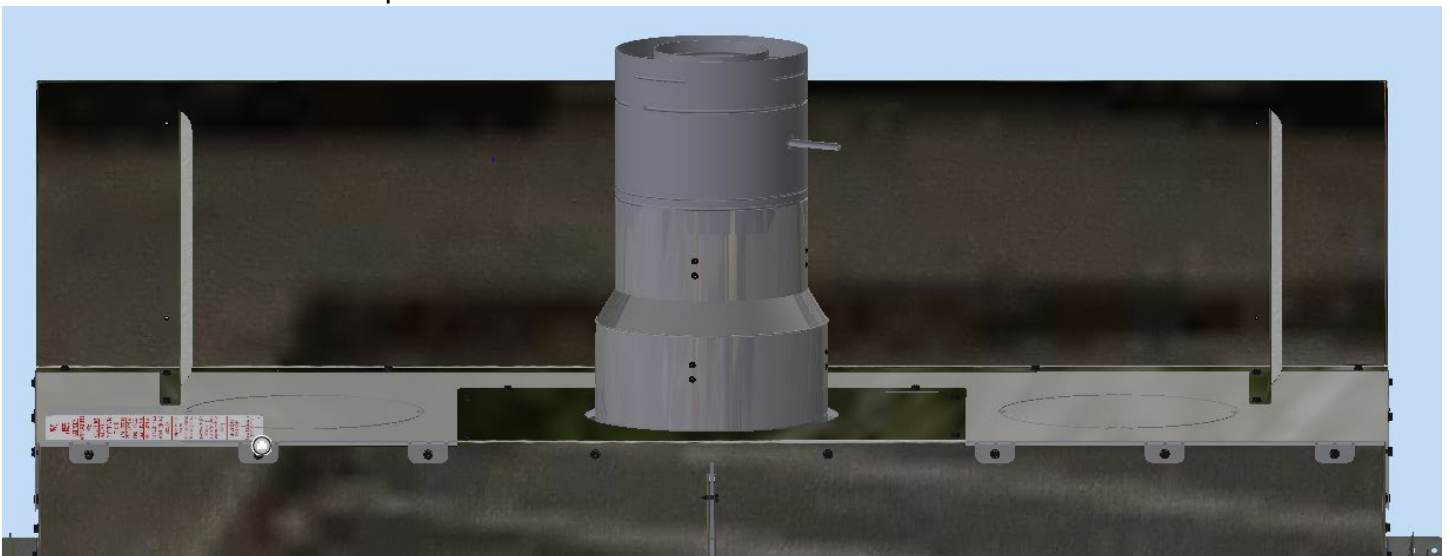
Use Kit AA-11-05379 for the following steps.

Note: For the following units DXV35DT4, FV34, FV34 ARCH, FV34 DÉCOR. Start with the 4 x 6 vent adapter with the pressure tube.

1. Install the 5/8-4 x 6 reducer.



2. Attach the 4 x 6 vent adapter with pressure tube to the reducer in item one. Note: the height of the reducer and adapter attached is 11 1/2".

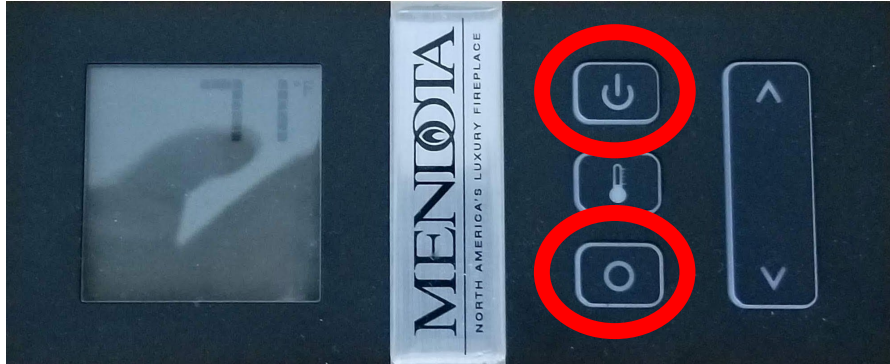


3. Install the 4 x 6- 5/8 increaser to the power vent.

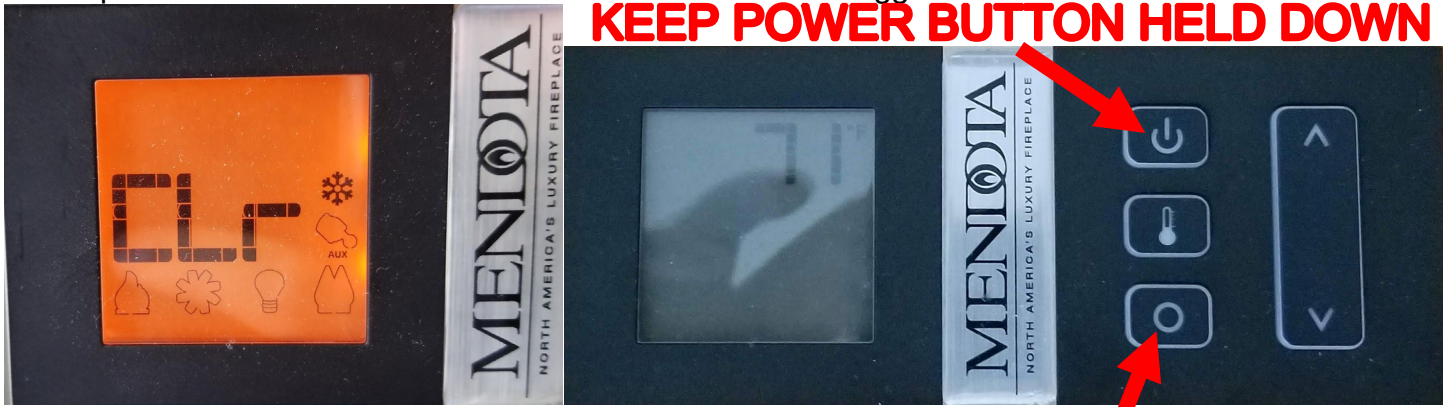


REMOVE CPI FUNCTION FROM THE REMOTE.

- Remove the batteries from the remote. Then install the batteries while holding the power and mode buttons.



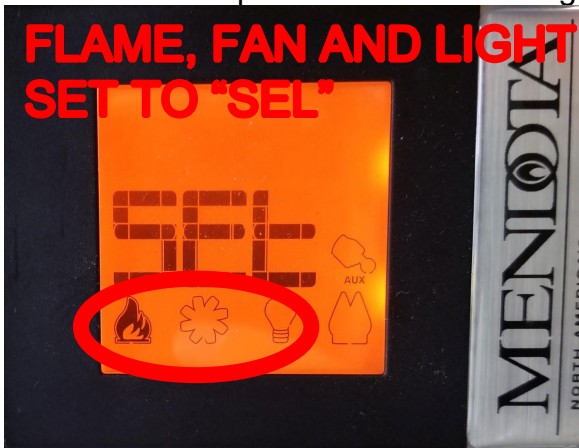
- This will bring up a display that will let you select or clear the functions on the remote. Keep the power button held down and use the mode button to toggle between functions.



KEEP POWER BUTTON HELD DOWN

PUSH TO TOGGLE FUNCTIONS

- Use the up/down arrows to change the CPI function so the display reads CLR.



**FLAME, FAN AND LIGHT
SET TO "SEL"**



CPI SET TO "CLR"

- After setting the functions release the power button. Push the power button again and check that the flame height, fan and light function can be activated.