

POWER VENT INSTALLATION INSTRUCTIONS HORIZONTALLY 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-11-04071 – Power Vent Kit: Vent runs up to 25 feet in length.

AA-11-04072 – Power Vent Kit: Vent runs over 25 feet and 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 installation Manual is 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.

PAINT: The power vent comes painted a cream color. The power vent can be painted to match your wall finish color using high temperature paint. Paint used must be able to withstand temperatures of at least 250 degrees Fahrenheit.

REQUIRED TOOLS AND COMPONENTS

Tools

- Phillips Head Screw Drive
- Torx Head Driver
- Square Head Driver.
- 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.
- SILICONE CAULK
Used to seal around the power vent.
- OPTIONAL – HIGH TEMP PAINT
The power vent comes painted a cream color. The power vent can be painted to match your wall finish color using high temperature paint. Paint used must be able to withstand temperatures of at least 250 degrees Fahrenheit.

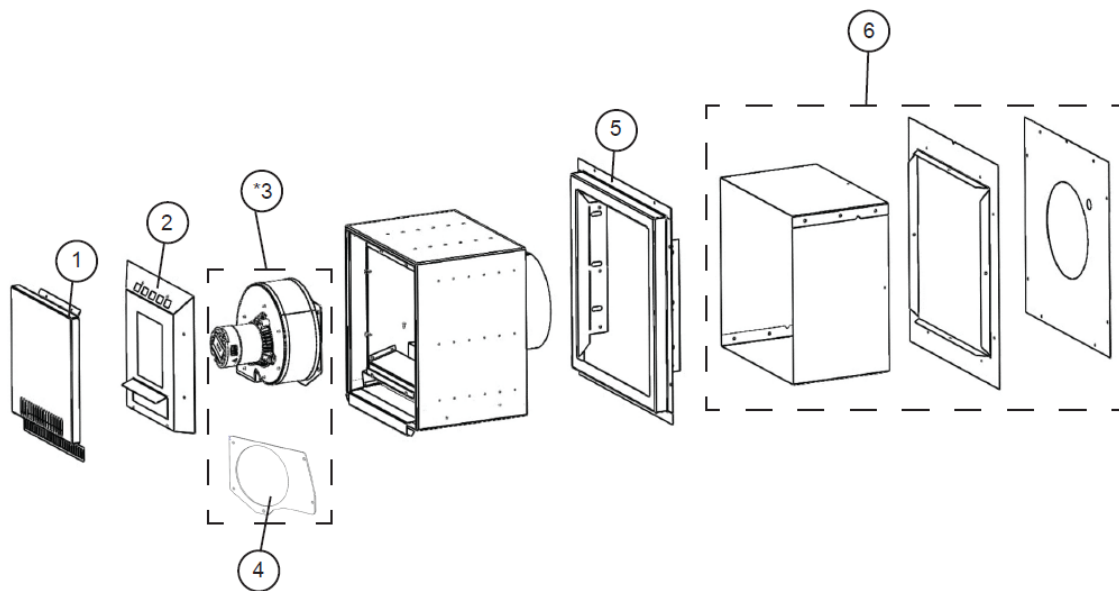
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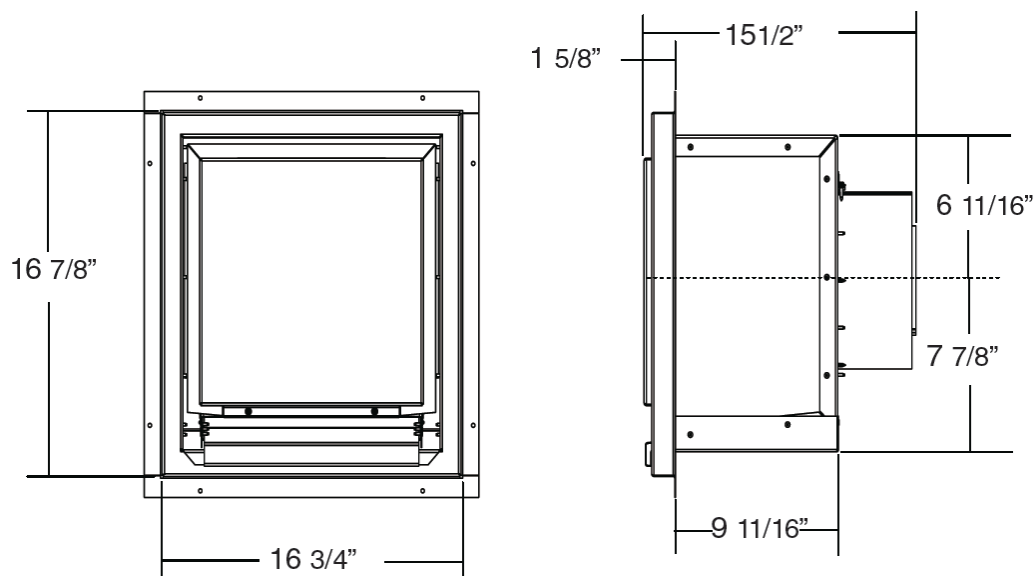
INSTALLER: Leave this manual with the appliance.
 CONSUMER: Retain this manual for future reference.

POWER VENT KIT SERVICE PARTS

ITEM	PART No.	DESCRIPTION	QTY
1	80001902	DECORATIVE COVER	1
2	80002217	BLOWER COVER	1
*3	80000553	BLOWER ASSEMBLY UP TO 25'	1
*3	80000554	BLOWER ASSEMBLY 25' TO 80'	1
4	80002024	BLOWER GASKET	1
5	80002216	MOUNTING FLANGE	1
6	80002059	FIRESTOP KIT	1



DIMENSIONS



AESTHETIC CONSIDERATIONS

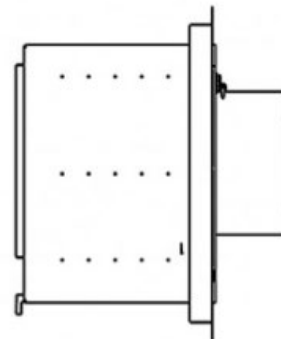
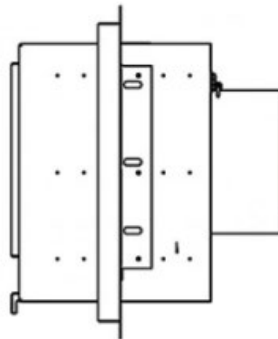
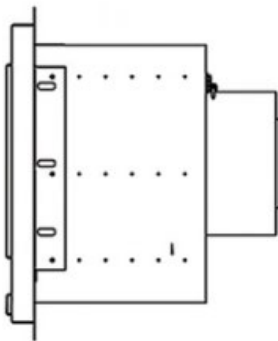
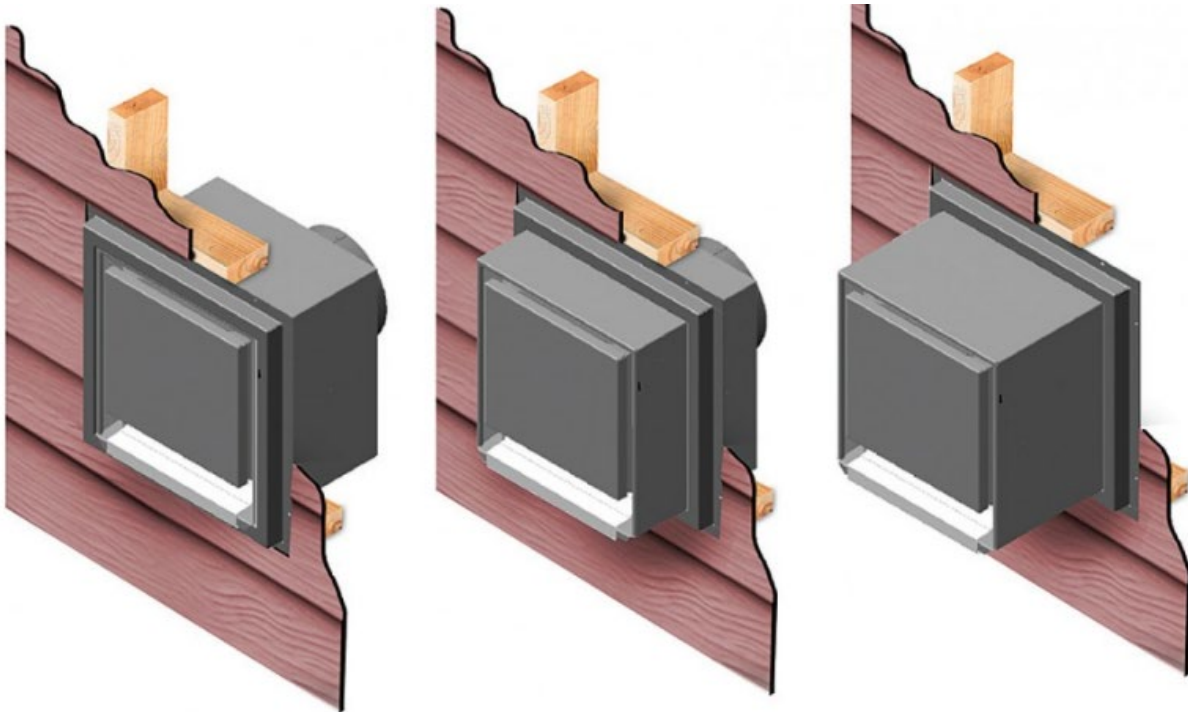
CLEAN FACE INSTALLATION

This power vent is designed so that it can be mounted at different depths in 1 1/2" intervals. This allows the power vent to be installed flush with the exterior wall, helping to maintain the beauty of your home's exterior.

WARNING: The power vent box must be flush or protruding to the finished outside wall. Under no circumstances should the power vent box be recessed into the wall.

PAINT

The power vent comes painted a cream color. The power vent can be painted to match your wall finish color using high temperature paint. Paint used must be able to withstand temperatures of at least 250 degrees Fahrenheit.



VENTING CONFIGURATIONS

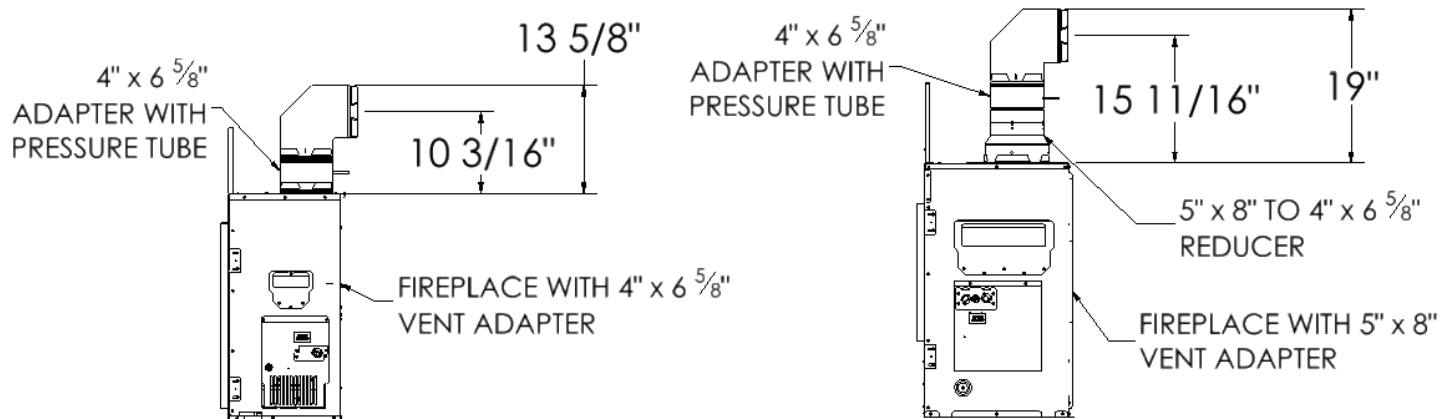
VENT PIPE

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

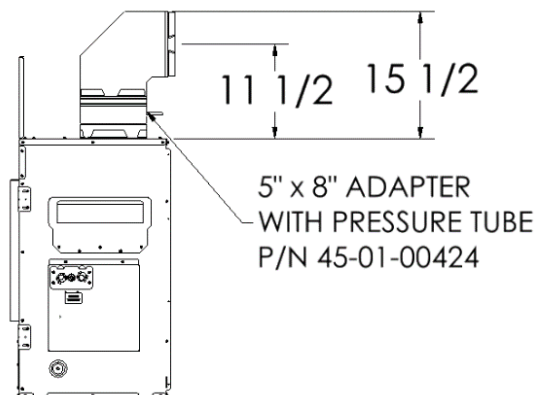
The vent adapter with a pressure tube must be connected to the fireplace starter collar. Installing the adapter results in a minimum vertical rise off the top of the fireplace. The adapter with the pressure tube is a 6" long vent. The reducer is 7 1/2" long. Minimum heights for venting from the top of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



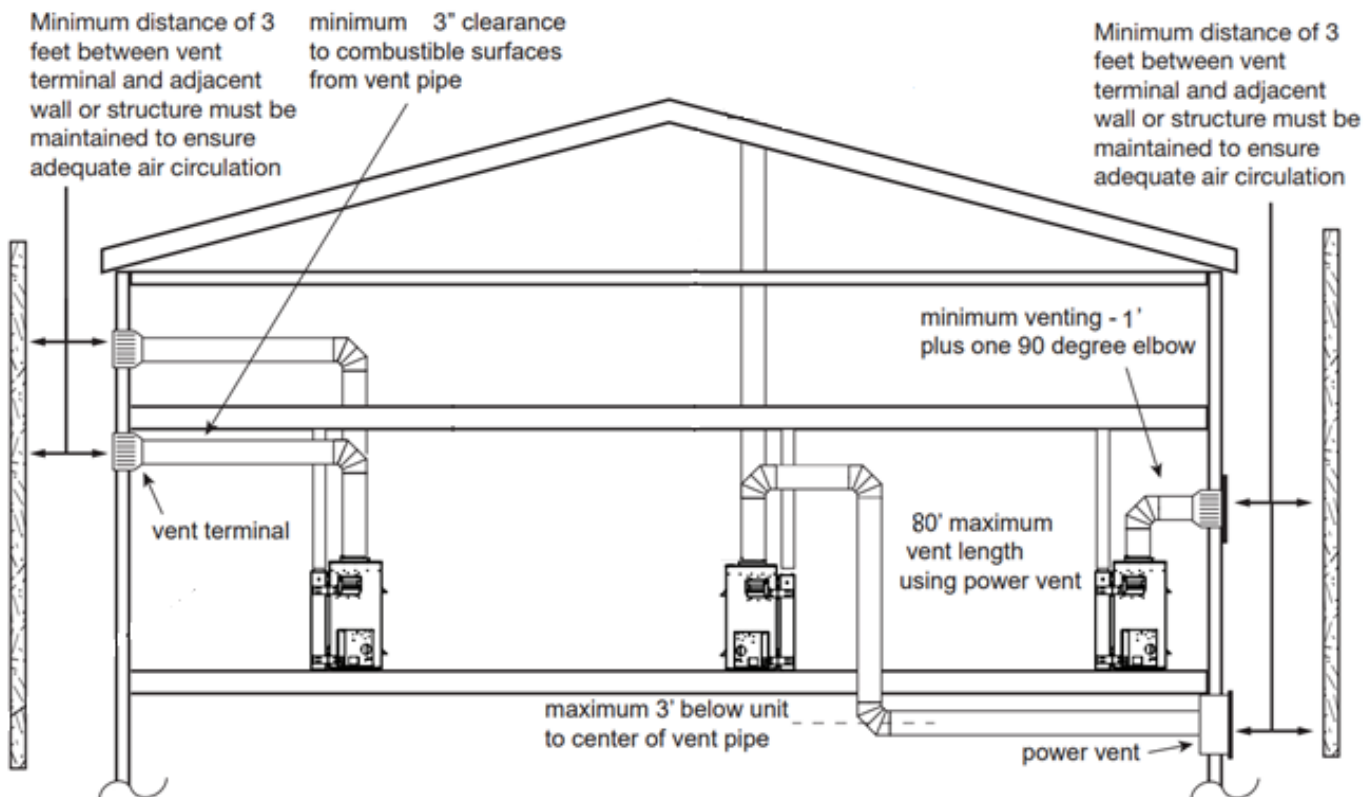
VENT RUN CHART

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

Choose the correct power vent according to the required vent run.

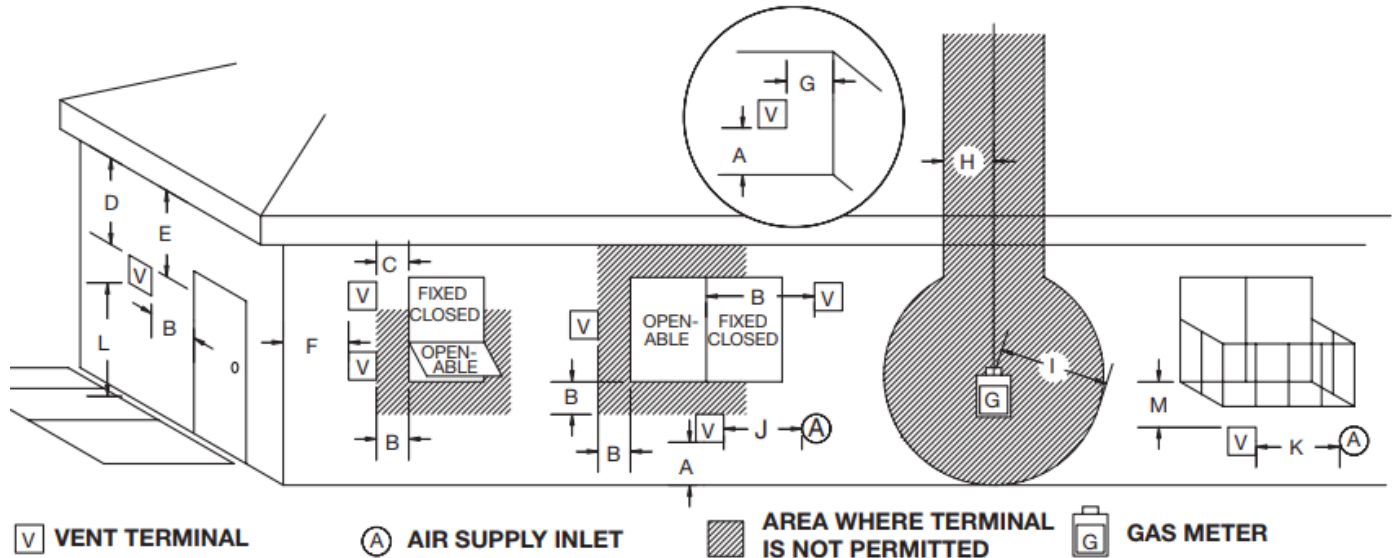
- The total vent length must be a minimum of 1 ft. to a maximum of 80 ft.
- Up to six 90° elbows or combination of other elbows equaling 90° (For example two 45° elbows = one 90° elbow) can be used in the venting run.
- For horizontally terminated vent runs that are under 25 feet power vent kit AA-11-04071 must be used.
- For horizontally terminated vent runs that are over 25 feet power vent kit AA-11-04072 must be used.

Reference the diagram below for approved venting configurations.



EXTERIOR VENT LOCATIONS AND RESTRICTIONS

Note: All measurements are to be taken from the edge of the Power Vent.



- A= clearances above grade, veranda, porch, deck, or balcony [* 12 inches (30 cm) minimum]
- B= clearance to window or door that may be opened [* 12 inches (30 cm) minimum]
- C= clearance to permanently closed window [minimum 12 inches (30 cm) recommended to prevent condensation on window]
- D= vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the edge of the terminal [0 inches (0 cm) minimum]
- E= clearance to unventilated soffit [0 inches (0 cm) minimum]
- F= clearance to outside corner [6 inches (15 cm) minimum]
- G= clearance to inside corner [3 inches (7.5 cm) minimum]

- H= * not to be installed above a meter/regulator assembly within 3 feet (90 cm) horizontally from the center-line of the regulator
- I= clearance to service regulator vent outlet [* 6 feet (1.8 m) minimum]
- J= clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other appliance [* 12 inches (30 cm) minimum]
- K= clearance to a mechanical air supply inlet [* 6 feet (1.8 m) minimum]
- L= ^ clearance above paved side-walk or a paved driveway located on public property [* 7 feet (2.1 m) minimum]
- M= clearance under veranda, porch, deck, or balcony [0 inches (0 cm) minimum**]

^ a vent shall not terminate directly above a side-walk or paved driveway which is located between two single family dwellings and serves both dwellings*

** only permitted if veranda, porch, deck, or balcony is fully open on a minimum of 2 sides beneath the floor*

* as specified in CGA B149 Installation Codes, Note: local Codes or Regulation may require different clearances

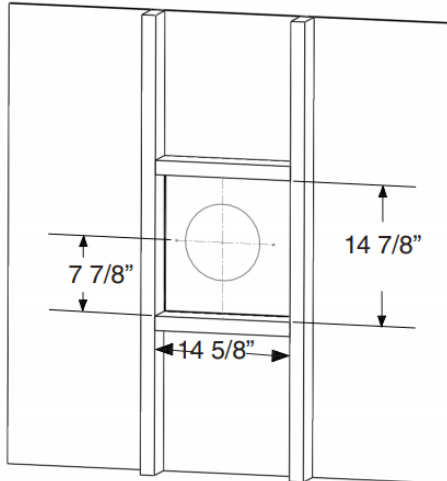
* for U.S.A. Installations follow the current National Fuel Gas Code, ANSI Z223.1

INSTALLING POWER VENT KIT

FRAMING THE POWER VENT

1. Determine the location of the power vent termination on the exterior wall. Be sure to follow all clearance restrictions in the exterior vent location and restrictions chart in this manual.
2. Cut and frame a 14 5/8" wide by 14 7/8" high opening in the wall.

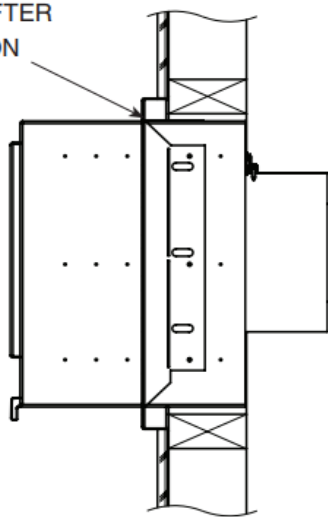
NOTE: The vent pipe is not centered vertically on the power vent. When installed the center of the vent pipe will be 7 7/8" above the bottom of the power vent.



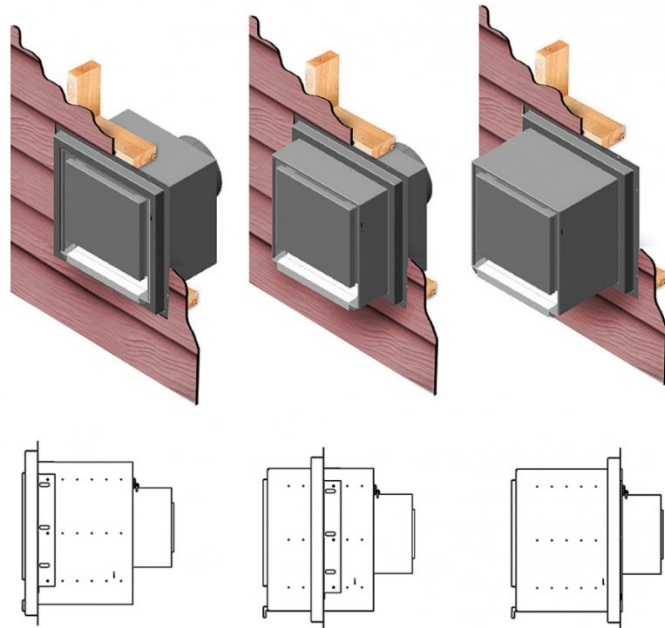
3. Determine the desired amount of exterior power vent protrusion and fasten the mounting flange with supplied self-drilling screws. The depth is adjustable in 1 1/2" increments. Screw holes on the flanges of the mounting flange will line up with dimples on the side of the power vent box. Screw the mounting flange to the power vent box on the sides and top. Use silicone to seal between the mounting flange and power vent box on all four sides.

WARNING: The power vent box must be flush or protruding to the finished outside wall. Under no circumstances should the power vent box be recessed into the wall.

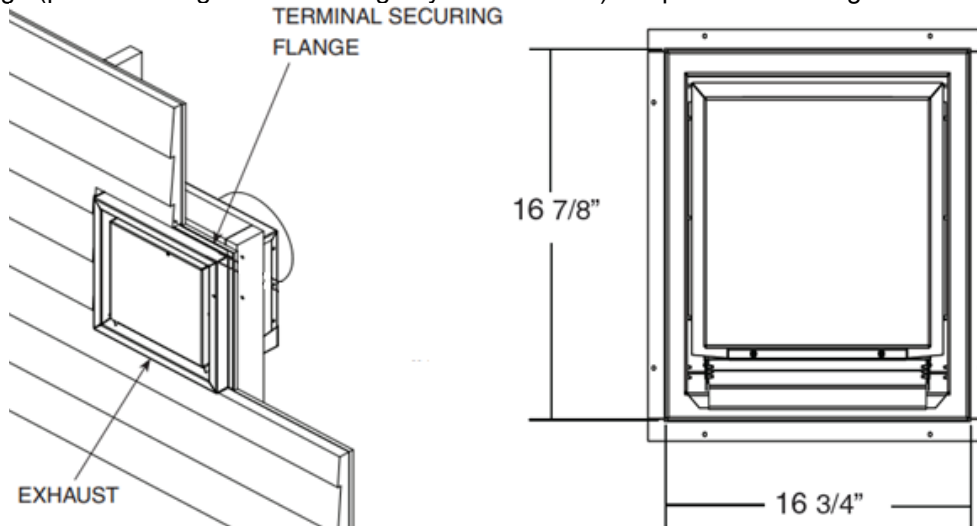
SILICONE AFTER
INSTALLATION



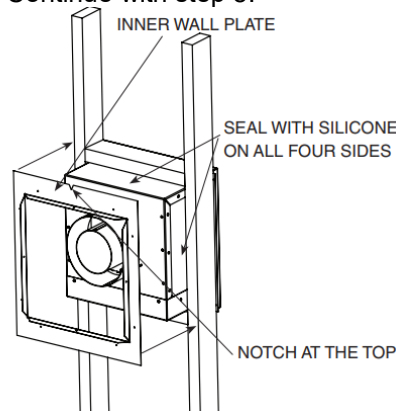
ADJUSTABLE FROM FLUSH
TO SURFACE. MOUNT IN 1 1/2"
INCREMENTS



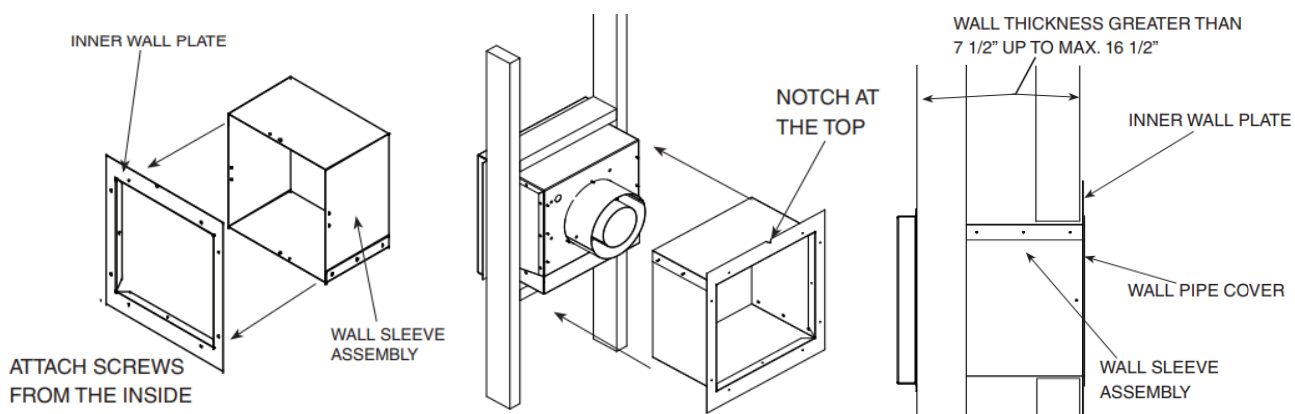
4. After the mounting flange has been attached to the power vent box, slide the assembly through the framed hole. Secure the outer flanges on the mounting flange to the outside wall. Ensure that the power vent is the right way up (exhaust at the bottom). Once secured to the building, the outer flanges may be covered with siding/stucco/etc. up to the level of the perimeter edge (perimeter edge is 16 7/8" High by 16 3/4" Wide). As per local building codes.



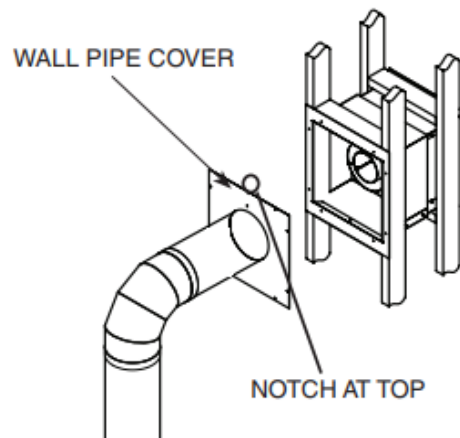
5. If the power vent box does not protrude through the entire wall skip to the next step. If when installed the power vent box protrudes through the entire wall, install the inner wall plate over the power vent box as shown and secure to the framing. Seal with silicone on all four sides. Continue with step 8.



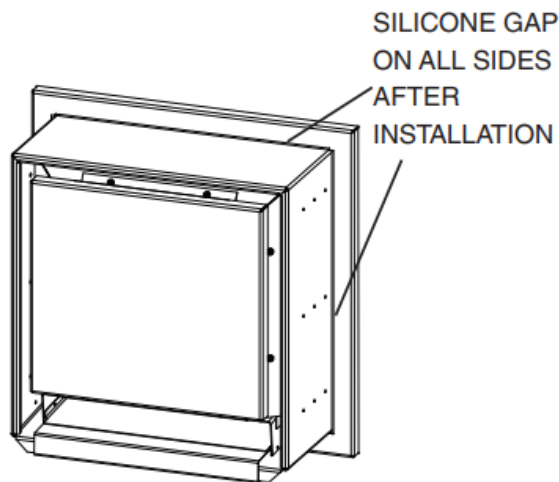
6. If the power vent box does not protrude through the wall the wall sleeve will need to be used. Attach the inner wall plate to the wall sleeve. Assemble using provided screws. Then slide this assembly over the power vent box with the notch at the top.



- Slide the wall pipe cover, with the small notch oriented at the top, over the vent pipe. Attach the vent pipe to the power vent. Attach the wall pipe cover to the inner wall plate. This ensures that any insulation is retained in the wall and that the correct clearances are maintained.



- To finish the installation of the power vent silicone the gap between the mounting flange and power vent box.



- Optional: The power vent can be painted to match your wall finish color using high temperature paint. Paint used must be able to withstand temperatures of at least 250 degrees Fahrenheit.

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.

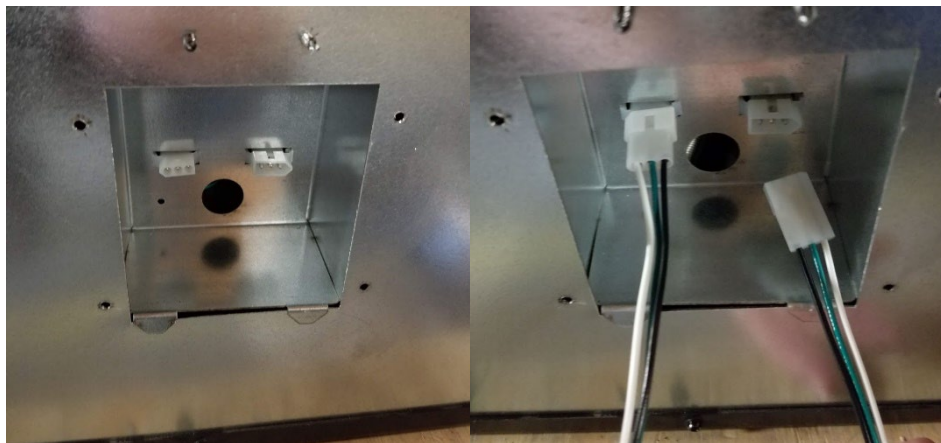


4. Strip the ends of the power vent wire. Feed the end of the 14/2 solid copper wire through one of the strain relief clamps on the junction box cover plate. Connect each color-coded wire to corresponding colored wires on the plug. White to White, Black to Black, and Ground to Green. Use the supplied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



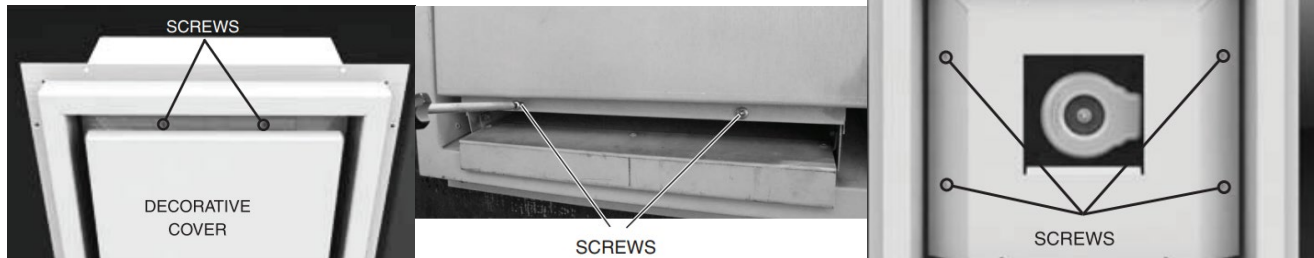
Note: When connecting two braided wires using wire nuts, strip both braided wire ends at least 1/2" and twist the two bare ends together before using wire nuts. When connecting a braided wire to a solid copper wire, strip the solid copper wire end 1/2" and the braided wire end 3/4". Twist the braided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

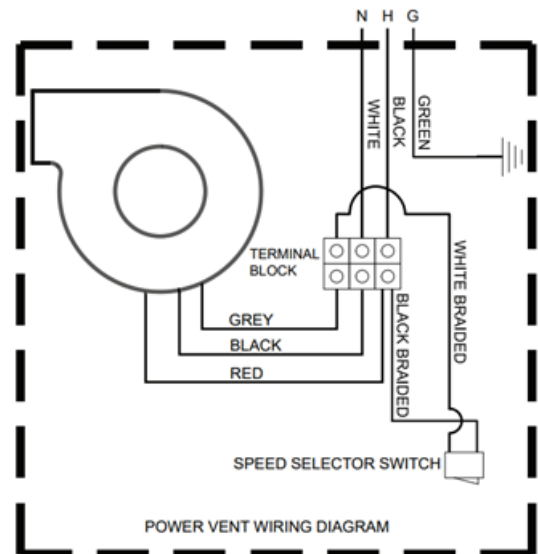


6. Once the wires are plugged in, place the wires into the junction box and reinstall the cover plate.

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. To access the block first remove the decorative cover and blower cover from the power vent. Remove the screws shown in the photos below to remove the decorative cover and blower cover.



8. Run the 14/2 solid copper wire from the fireplace through the strain relief on the back of the power vent to the terminal block. Connect the ground wire to the ground screw and connect white and black wires as shown in the photo and diagram below.



9. After the wires are connected remove any slack in the wire to ensure that it will not touch the fan housing inside the power vent. Tighten the strain relief to secure the wire. Make sure the speed selector switch located in the blower housing is set to "HI".
10. Reinstall the blower cover and decorative cover.

POWER VENT KIT INSTALLATION INSTRUCTIONS

AA-11-05379 Power vent component kit.

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.

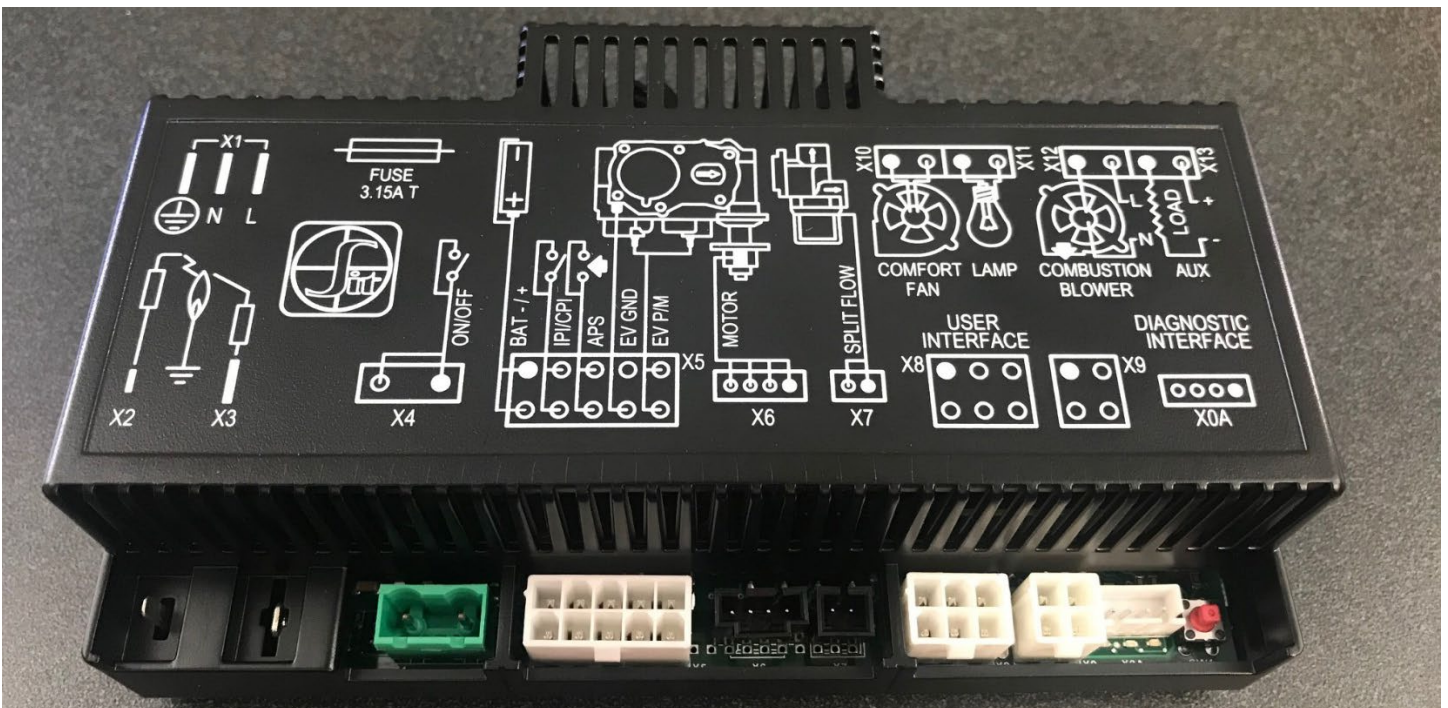
1. Use a flat blade screwdriver to carefully wedge the blade in between the 4 tabs on the control module and twist the screwdriver slightly to disengage the clips to remove the top cover.



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.



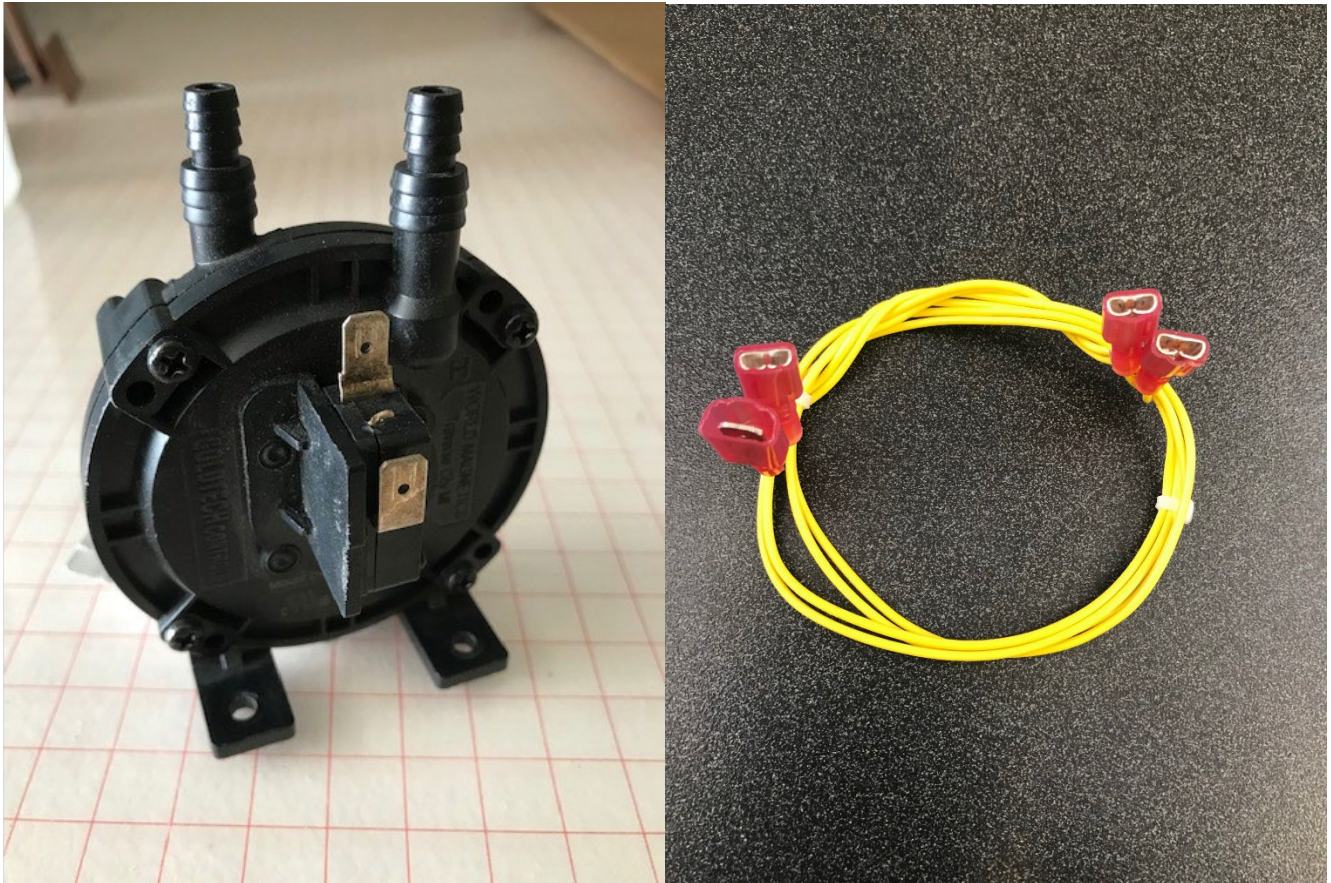
3. Place the top cover back onto the control module, make sure it is oriented properly, press lightly on the top cover till you hear a clicking sound engaging the retaining clips.
4. Re-install the control module back into the fireplace if it was removed.



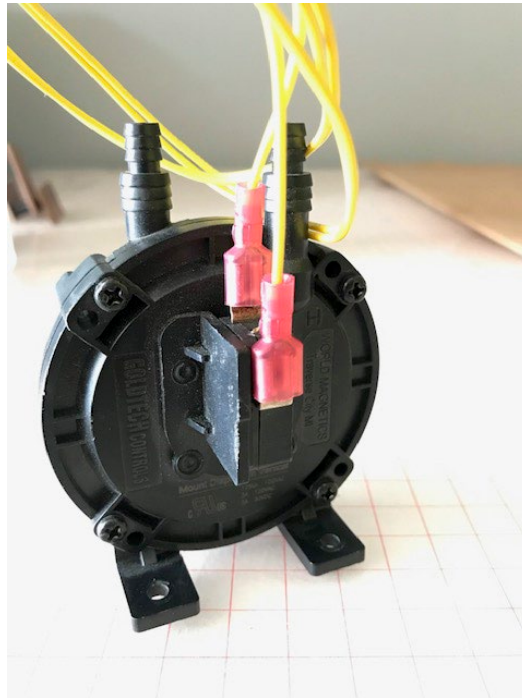
PRESSURE SWITCH PREPARATION

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.



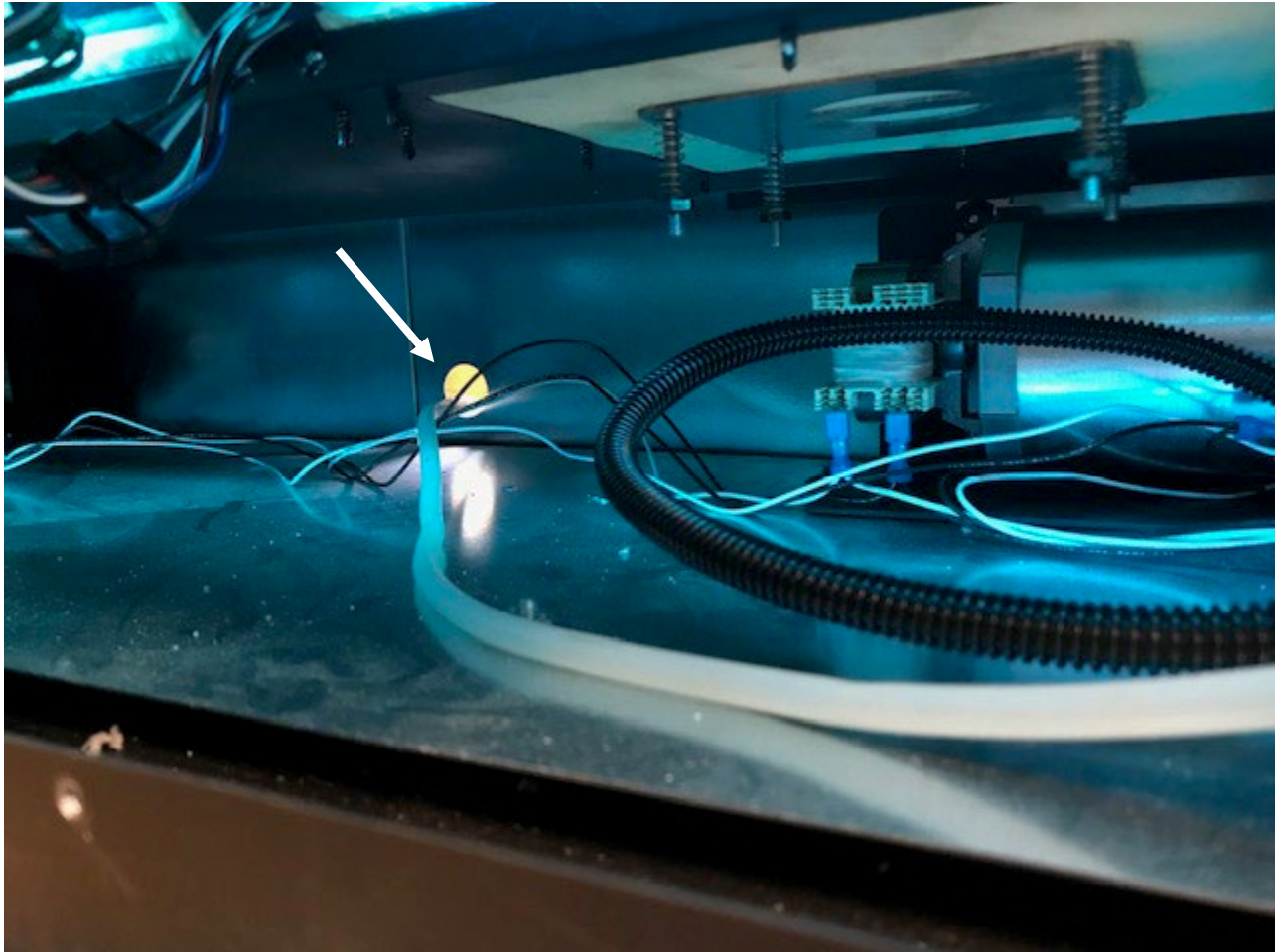
5. Peel the adhesive backing off the bottom of the pressure switch and place the pressure switch next to the control module as shown in the picture.



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.

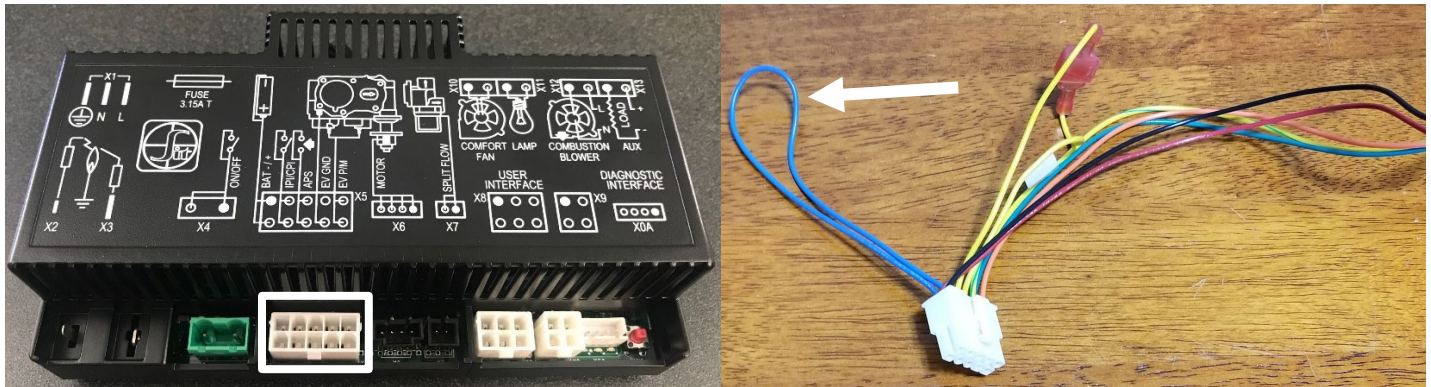
(DXV-Series fireplaces) Route the hose through one of the side cutouts where the gas line can be connected.



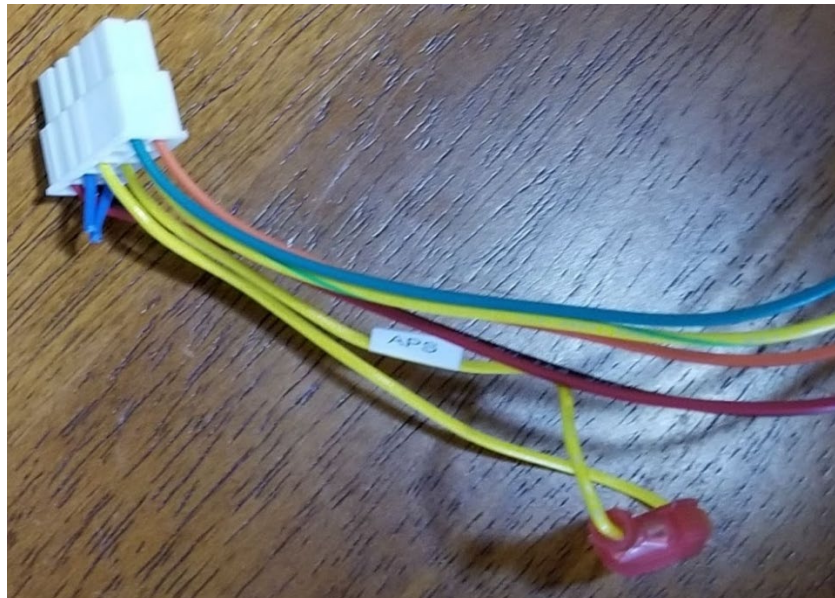
WIRE HARNESS PREPARATION

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"



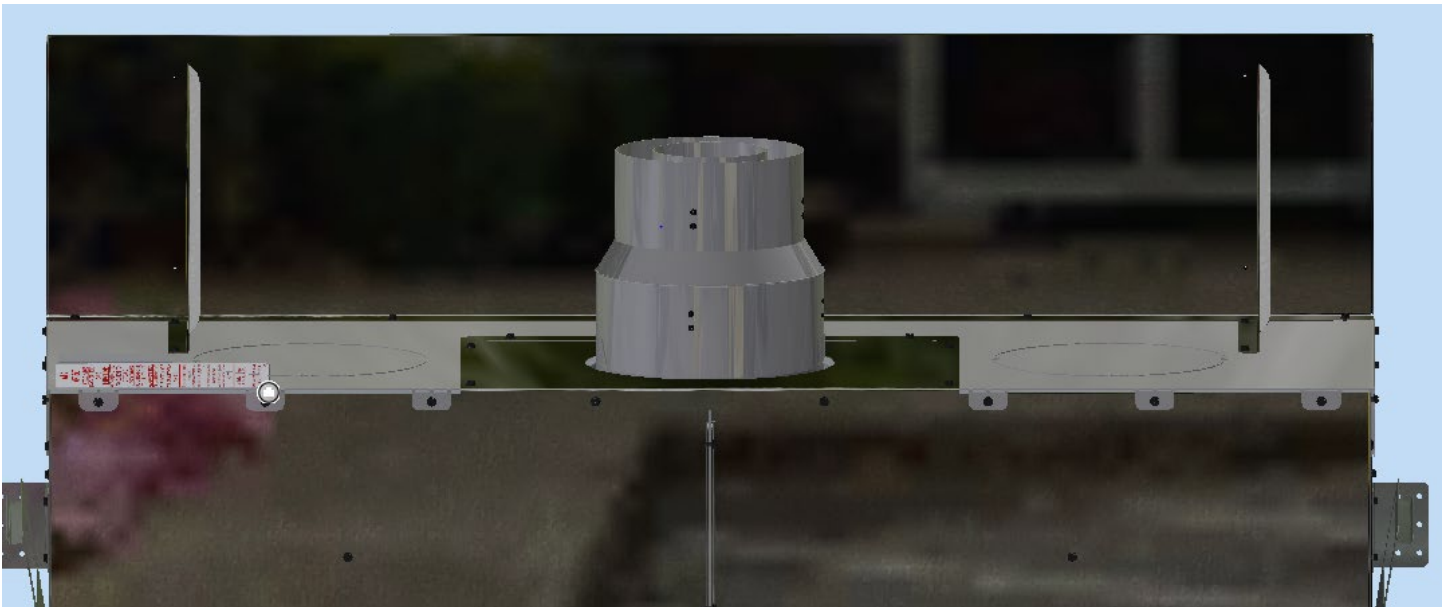
4. Connect the two red quick connect connectors on the harness to the two corresponding red quick connect connectors on the pressure switch wire harness.

FIREPLACE PREPARATION

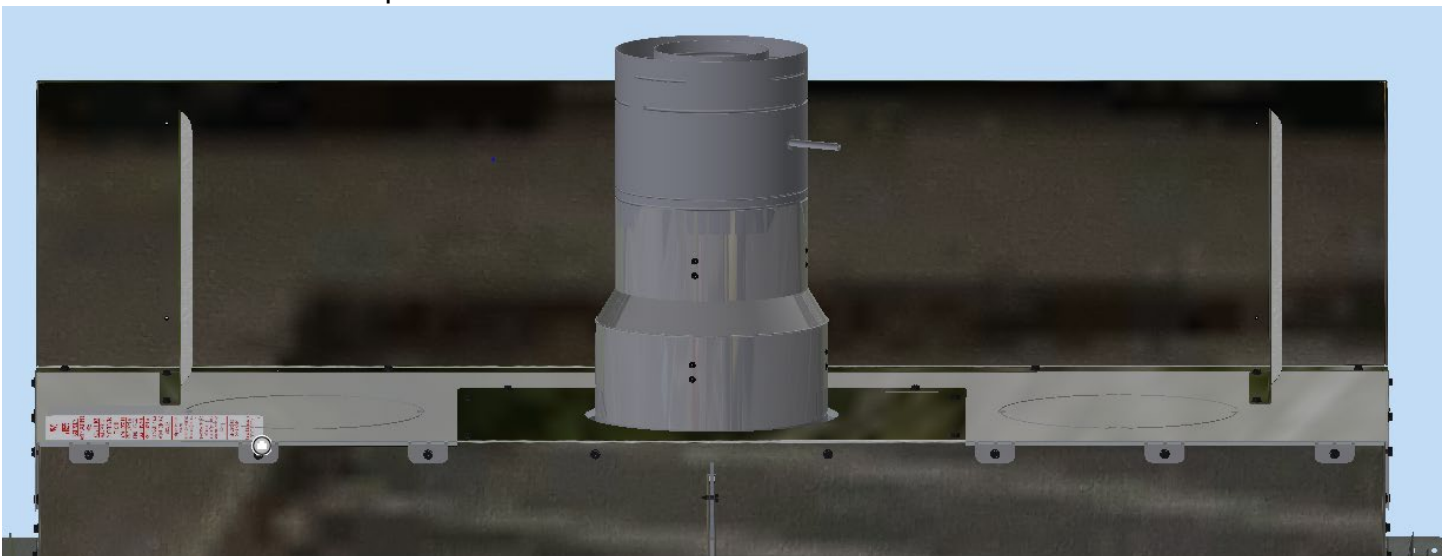
Use Kit AA-11-05379 for the following steps.

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".

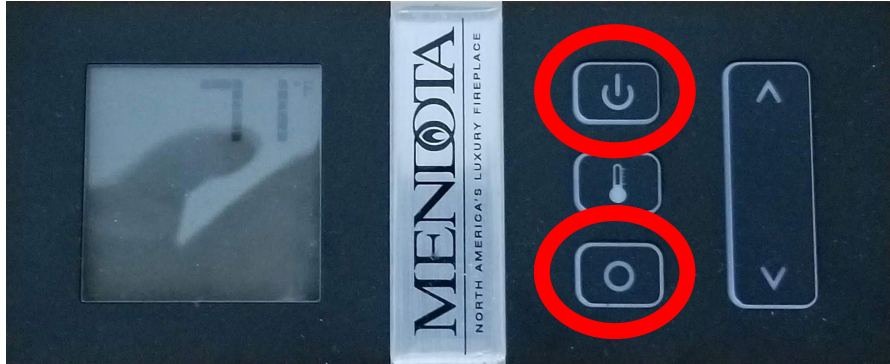


3. Install the 4 x 6- 5/8 increaser to the power vent.



REMOVE CPI FUNCTION FROM THE REMOTE.

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



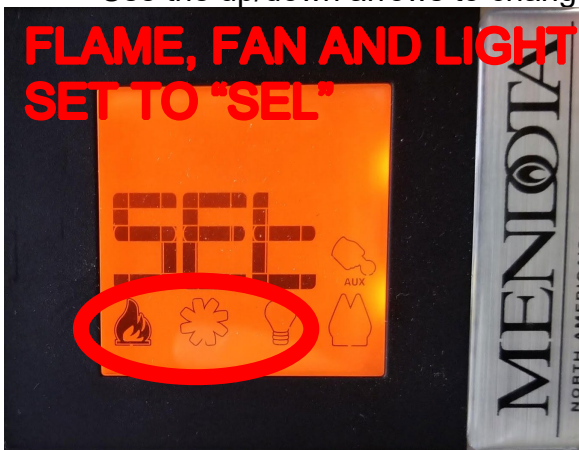
- This will bring up a display that will let you select or clear the functions on the remote. Keep the power button held down and use the mode button to toggle between functions.



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.