SPARK

SELF-CALIBRATING POWER VENT CONTROL AND TERMINATION KIT

INSTALLATION & OPERATION MANUAL

THIS POWER VENT KIT IS ONLY FOR USE WITH THE SPARK MODELS 512 and 612 ONLY

SCPV-900C SHOWN

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

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 SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.

CLOTHING OR OTHER FLAMMABLE MATERIAL SHOULD NOT BE PLACED ON OR NEAR THE APPLIANCE.

KEEP THE ROOM AREA CLEAR AND FREE FROM COMBUSTIBLE MATERIALS, GASOLINE, AND OTHER FLAMMABLE VAPORS AND LIQUIDS.

WARNING: Improper installation, adjustment, alteration, services or maintenance can cause injury of property damage. Refer to this manual. For assistance or additional information, consult a qualified installer, service agency or the gas supplier.

SPARK STRONGLY SUGGESTS THAT YOU READ THIS MANUAL THOROUGHLY BEFORE BEGINNING THE INSTALLATION OF THE SPARK POWER VENT KIT. THIS SPECIFIC PRODUCT HAS ITS OWN UNIQUE SET-UP AND INSTALLATION REQUIREMENTS THAT MUST BE FOLLOWED EXACTLY. PLAN YOUR INSTALLATION IN ADVANCE BY CAREFULLY RE-VIEWING ALL THE INFORMATION CONTAINED IN THIS MANUAL.

WARNING: ALL INSTALLATION, SERVICING, AND TROUBLESHOOTING MUST BE PERFORMED BY A QUALIFIED GAS TECHNICIAN.

Ce manual est disponible en Francais sur demande.

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

TABLE OF CONTENTS

WARNING:

This installation manual covers the functional requirements for optimal performance of your fireplace with power vent installation, consult with a professional architect, civil engineer, or home builder regarding the building code, aesthetic and

NOTE:

SPARK advises that the appliance installation should be calibrated, tested, and the fireplace burned to ensure optimal performance and desired flame aesthetics BEFORE the vent system or fireplace are enclosed and walls or ceilings are finished.
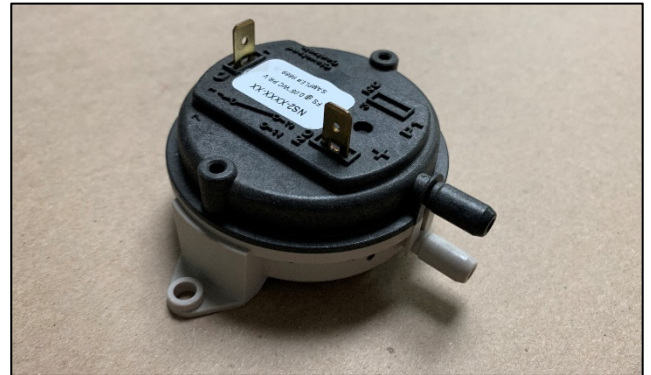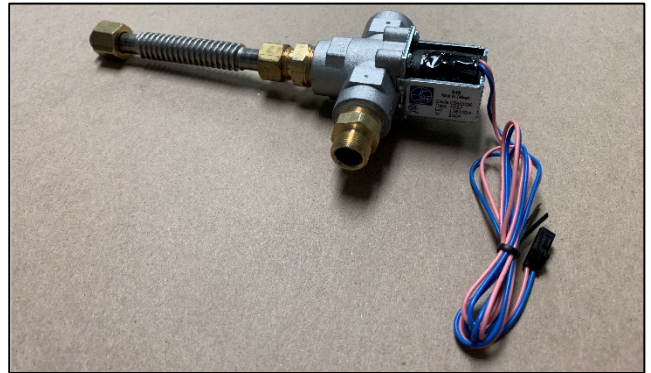
SCPV-900C - Self-Calibrating Power Vent Control Module, required for all power vent installations.

SCPV-905PS - Self-Calibrating Power Vent Pressure Switch, required for all power vent installations. Only use the pressure switch certified by SPARK with the SPARK Self-Calibrating Power Vent Control. Connect to pressure port using the 12ft length of ¼" ID silicon tubing (not shown) supplied with the Self-Calibrating Powervent control kit.

SCPV-914GS - Self-Calibrating Power Vent Gas Solenoid, required for all power vent installations. Only gas solenoids certified for use by SPARK are to be used with the SPARK Self-Calibrating Power Vent Control.

SCPV-TWH-XX - Self-Calibrating Power Vent termination wire harness, required for all power vent installations. The termination wire harness is available in 25, 50, 100, and 150 lengths.

Harness Part #	Description
SCPV-TWH-25	Termination Wire Harness, 25FT long
SCPV-TWH-50	Termination Wire Harness, 50FT long
SCPV-TWH-100	Termination Wire Harness, 100FT long
SCPV-TWH-150	Termination Wire Harness, 150FT long

SCPV-946DVA – Self-Calibrating Power Vent Pressure Port Vent Adapter, required with terminations SCPV-130-FLUSH, SCPV-130-SURFACE, and SCPV-130-VERTICAL.

NOTE: This adapter, based on M&G Duravent's 46DVA-06 directvent pipe, should be installed immediately on the starter collar of the fireplace. For SPARK fireplaces requiring a 45° elbow immediately following the starter, this adapter should be installed immediately following the 45° elbow.

SCPV-130-FLUSH – Self-Calibrating Power Vent Flush-Mount Termination, for use with vent runs over 10 feet in length, regardless of the number of elbows in the vent configuration. This termination requires the use of SCPV-946DVA - Self-Calibrating Power Vent Pressure Port Vent Adapter.

SCPV-130-SURFACE – Self-Calibrating Power Vent Surface-Mount Termination, for use with vent runs over 10 feet in length, regardless of the number of elbows in the vent configuration. This termination requires the use of SCPV-946DVA - Self-Calibrating Power Vent Pressure Port Vent Adapter.

SCPV-10-SRSM – Self-Calibrating Power Vent Surface-Mount Termination, for use with vent runs under 10 feet in length, regardless of the number of elbows in the vent configuration. This termination is **Not to be used** with SCPV-946DVA - Self-Calibrating Power Vent Pressure Port Vent Adapter.

NOTE: This termination can be differentiated from SCPV-130-SURFACE by the addition of the pressure port on the rear top-left corner of the termination.

PRESSURE PORT
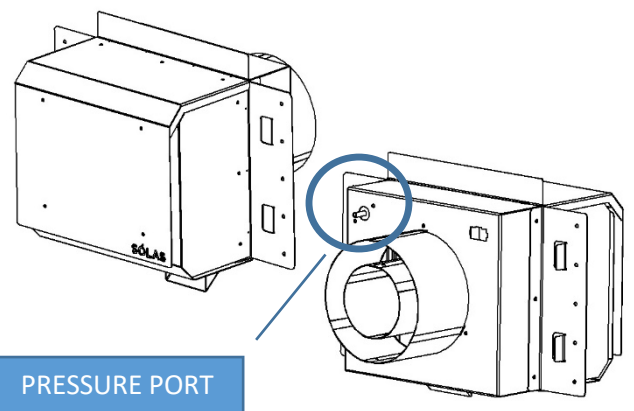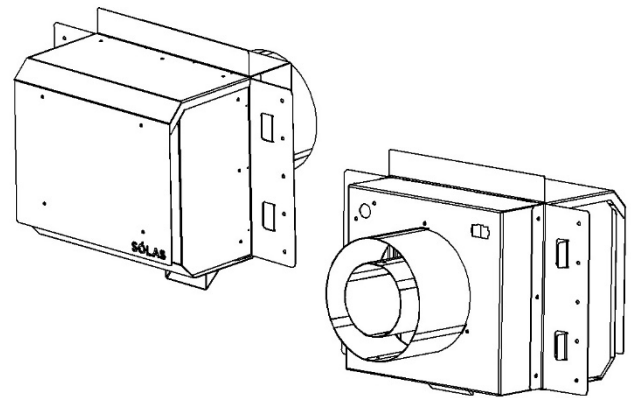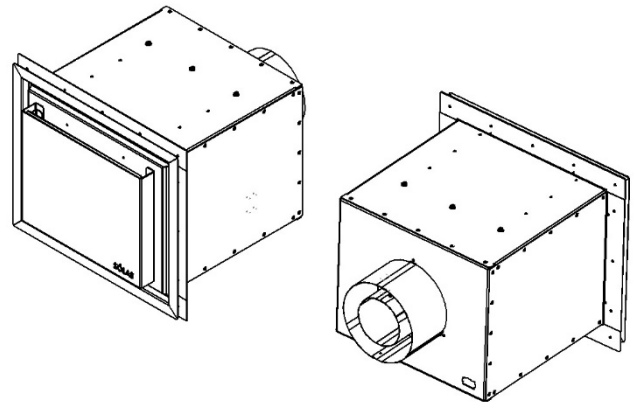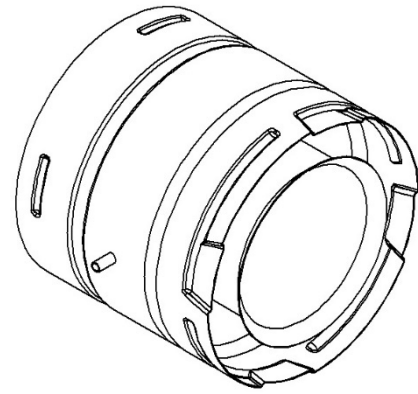
SPARK POWER VENT TERMINATIONS

SCPV-130-VERTICAL – Self-Calibrating Power Vent Vertical Termination, for use with vertically terminating vent runs only. This termination requires the use of SCPV-946DVA - Self-Calibrating Power Vent Pressure Port Vent Adapter.

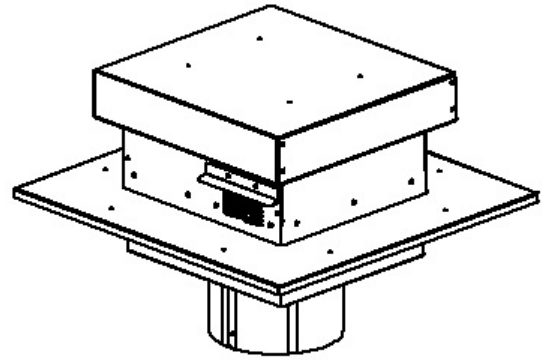The SPARK Self-Calibrating Power vent kit can only be used in conjunction with the SPARK MODERN Fire products listed below. This installation must conform with local codes, or, in the absence of local codes, with the National Fuel Gas Code, ANSIZ2223.1/NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1.

THIS POWER VENT KIT IS ONLY FOR USE WITH SPARK MODERN FIRE MODELS 512 AND 612 ONLY

This kit uses either M&G Duravent direct vent pipe, Secure Vent direct vent pipe, or Selkirk Direct-temp vent pipe with a 4" inner pipe and a 6-5/8" outer pipe.

Vertical installations must use the SCPV-130-VERTICAL termination. The vertical termination can only be installed on flat surfaces; sloped surfaces require construction of a chase which provides the minimum interior square opening of 11.9"x12.9" (302mm x 328mm) for the venting and wiring to pass through. Flat roofs may require a chase depending on local codes and roof construction. (If in doubt check with your local inspector)

ALWAYS MAINTAIN THE REQUIRED 1.5" (38mm) CLEARANCE TO COMBUSTIBLES AND ELECTRICAL WIRING AROUND VENT PIPE.

The location of the Power Vent termination must be in accordance with the clearances outlined in the venting section of this manual on page 8.

For replacement parts, refer to page 22. Replacement parts can be ordered through SPARK (Not authorized dealer).

SCPV-130-FLUSH – Self-Calibrating Flush-Mount Power Vent Dimensions:

NAILING FLANGE

FLUE OUTLET

SCPV-130-Flush – Self-Calibrating Flush-Mount Power Vent Cavity Dimensions:
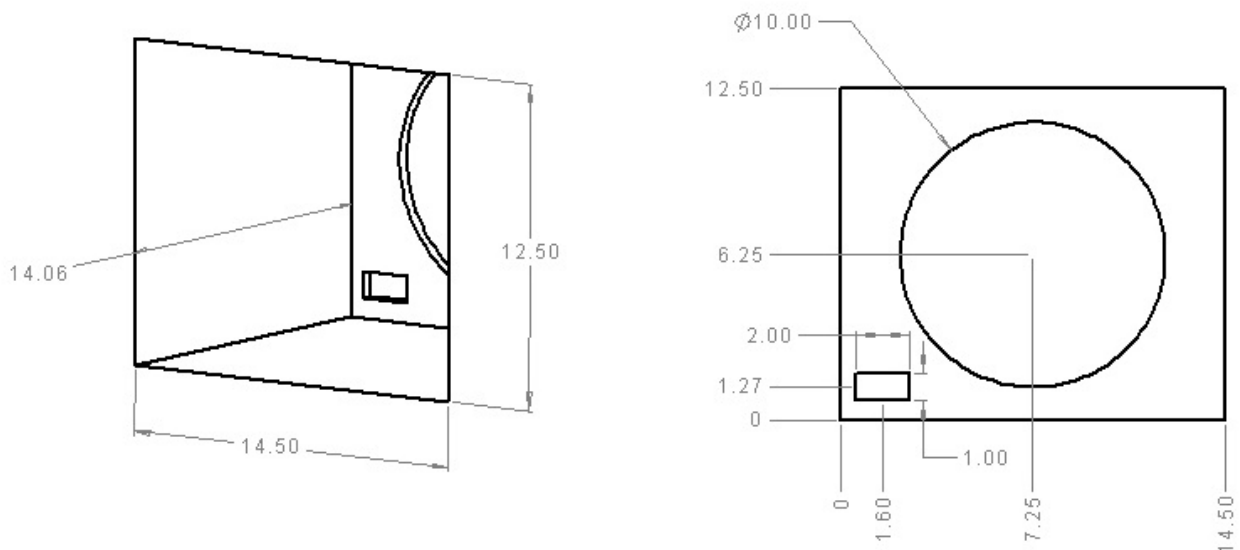
SURFACE-MOUNT TERMINATION SPECIFICATIONS

SCPV-10-SRSM & SCPV-130-SURFACE – Self-Calibrating Surface-Mount Power Vent Dimensions:

NAILING FLANGE

PRESSURE PORT

FLUE OUTLET

14.40

11.38

3.38

6.38

10.14

10.00
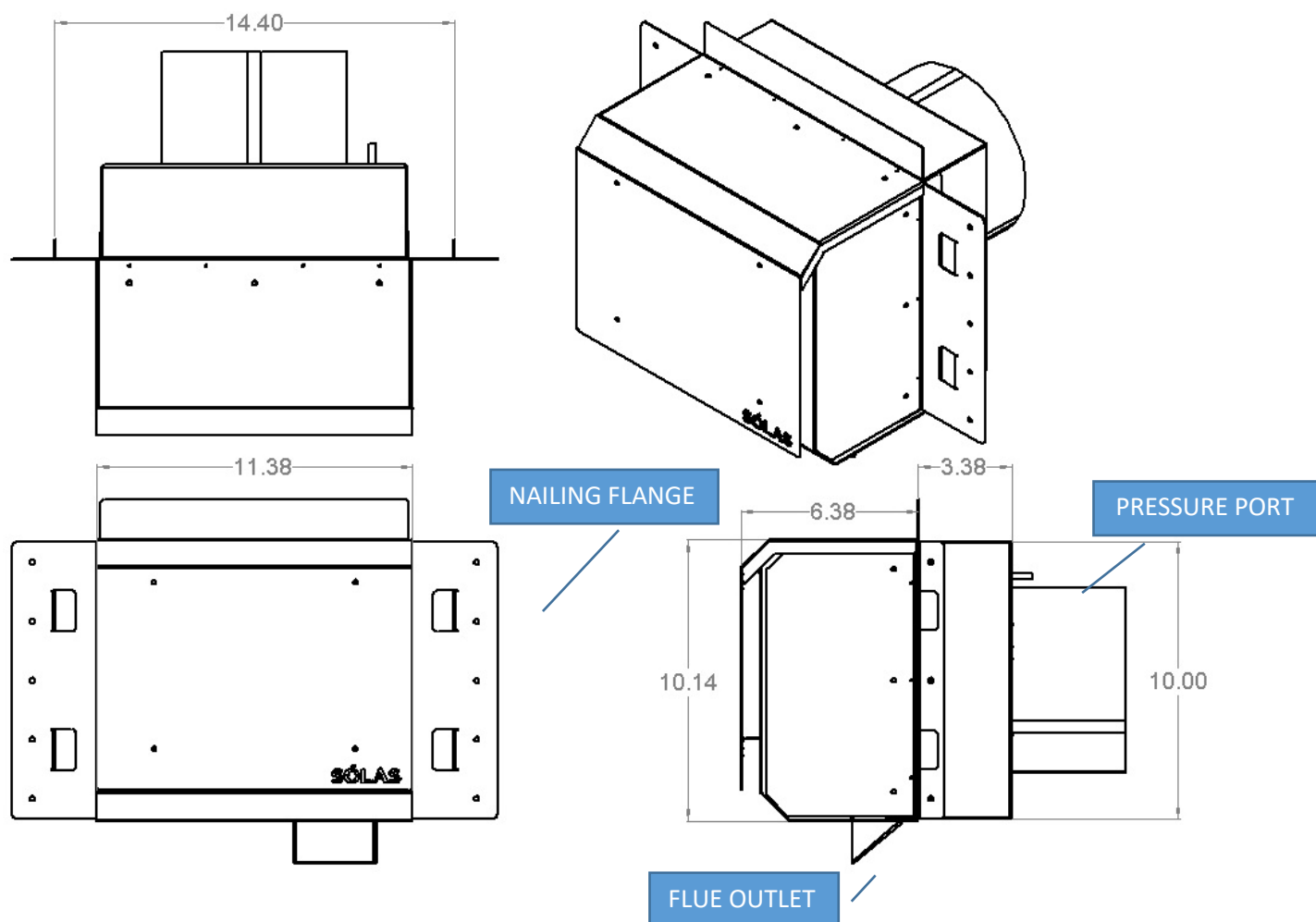
SCPV-10-SRSM & SCPV-130-SURFACE – Self-Calibrating Surface-Mount* Power Vent Cavity Dimensions:

3.50

10.25

14.50
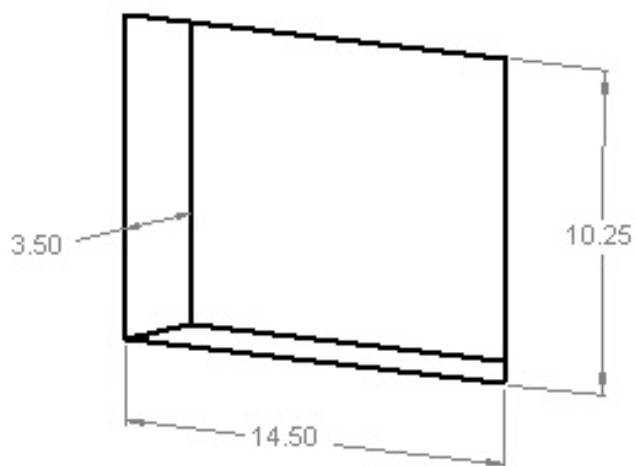
*These dimensions apply to SCPV-130-SURFACE and SCPV-10-SRSM, see page 12 for SCPV-130-VERTICAL

POWER VENT CLEARANCES

Figure #1

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]
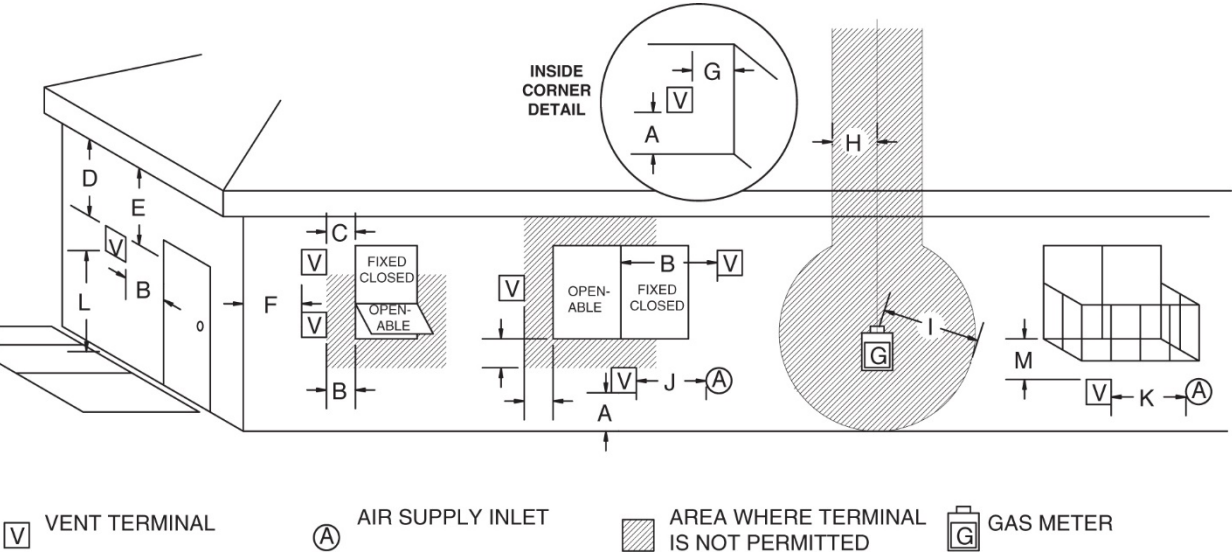D. vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the edge of the terminal [12 inches (30 cm) minimum]
E. clearance to unventilated soffit [12 inches (30 cm) minimum]
F. clearance to outside corner [6 inches (15 cm) minimum]
G. clearance to inside corner [6 inches (15 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 non-mechanical 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 [12 inches (30 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*
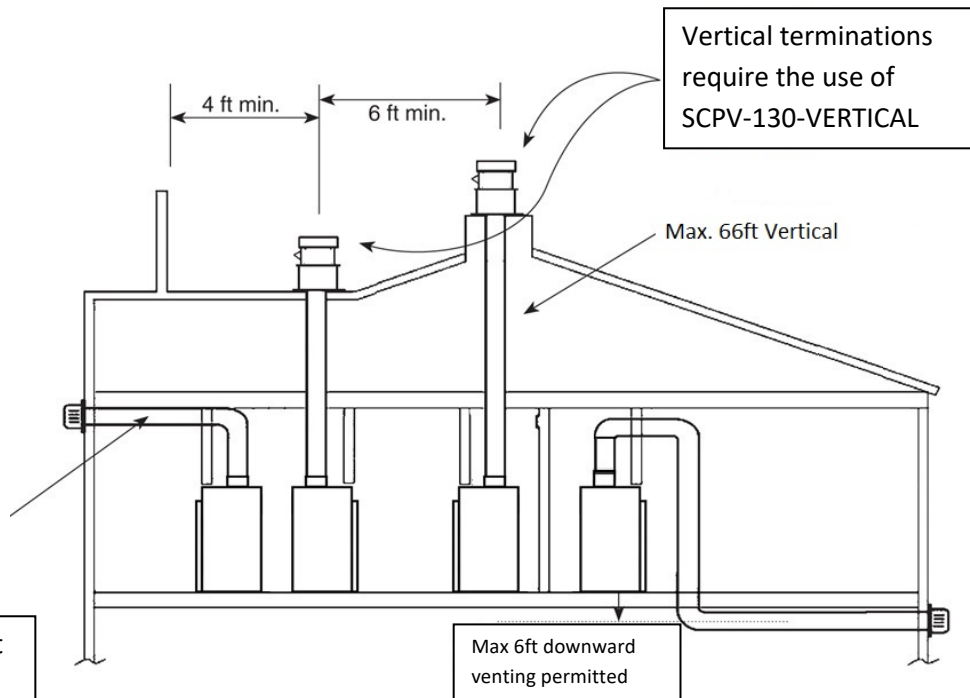* as specified in CGA B149 Installation Codes, Note: local Codes or Regulation may require different clearances
* for U.S.A. Installations follow the current National Fuel Gas Code, NSI Z223.1

Maximum vent length is 130 ft. Up to eight 90° elbows or combination of other elbows equaling 90° are permitted, for each 90° elbow, 3 ft must be deducted from the 130 ft maximum vent length. with a maximum 66ft vertical rise. Each 90° elbow is equivalent to 3 feet of venting. Minimum horizontal vent length is 3 ft. The vent can be installed with any combination of rise and run between the figures including up to 6 ft. of downward venting.

Vertical terminations require the use of SCPV-130-VERTICAL

4 ft min.

6 ft min.

Max. 66ft Vertical

Max 6ft downward venting permitted

Maximum venting – 130ft including (8) 90° elbows.

Figure #2

WARNING:

A minimum clearance to combustibles and electrical wiring of 1.5" (38mm) is required around the vent pipe at all times. Failure to maintain this clearance may result in property damage, injury, or death.

NOTE: The vent pipe must engage the power vent termination by at least 1.5" (38mm) to ensure the vent system is intact. Seal the joint with foil tape and self-tapping sheet metal screws (included).

6" (152mm) VENT ADAPTER

PRESSURE TAP

PRESSURE SWITCH TUBING

POWER VENT CONTROL LOCATION
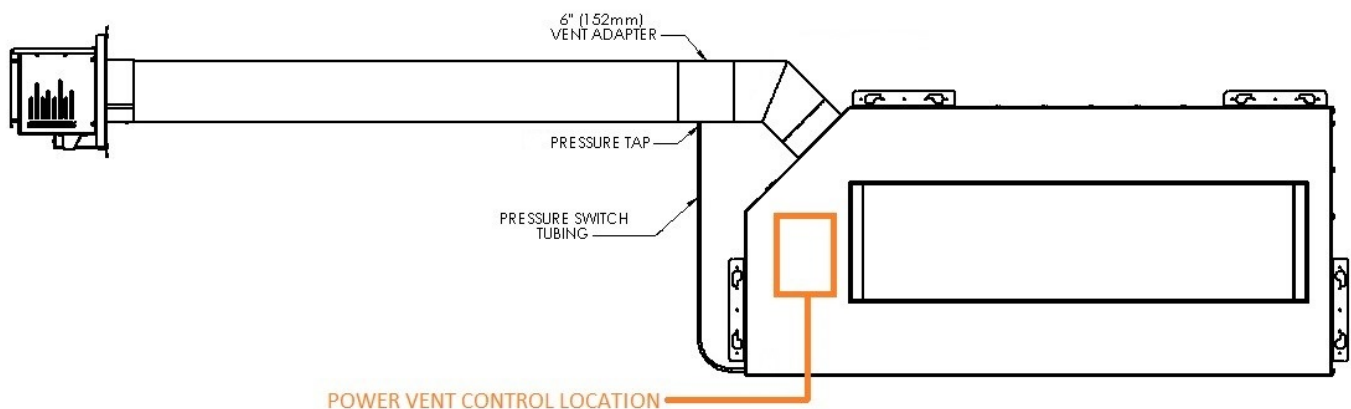
Figure #3

NOTE: IT IS PERMISSIBLE TO VENT HORIZONTALLY, DIRECTLY OFF OF THE UNIT, NO VERTICAL RISE IS REQUIRED WHEN EQUIPPED WITH A POWER VENT AS SHOWN IN FIGURE #3.

FLUSH MOUNT (SIDE WALL) INSTALLATION

NOTE: Locate the power vent termination following the clearance to combustible table, venting configuration diagram (Fig. #2 & 3), and terminal location diagram (Fig. #1).
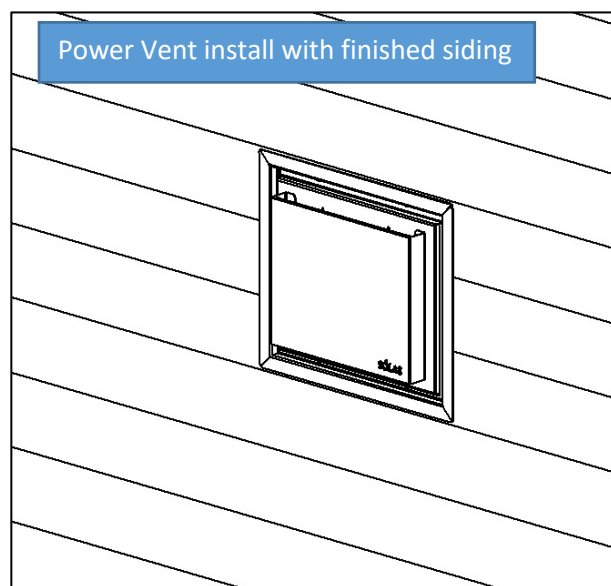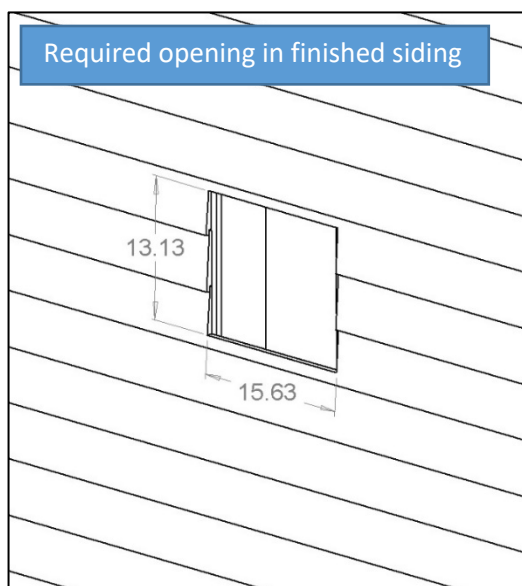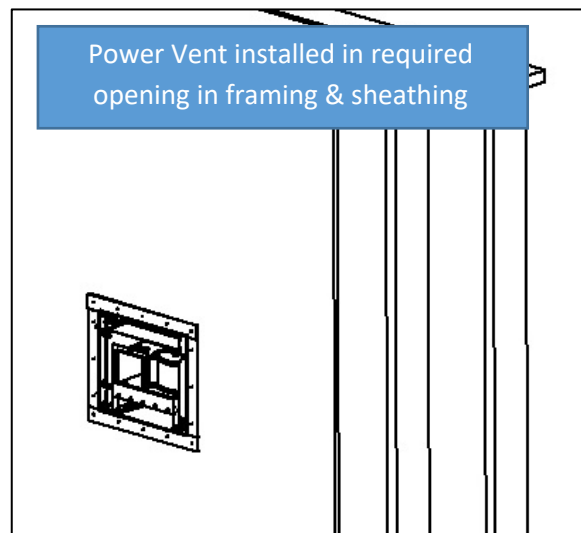
NOTE: The following instructions are for use SCPV-130-FLUSH only.

1. SCPV-130-FLUSH is designed to fit on center in between standard exterior 2x6 exterior framing. The opening required in the framing and exterior sheathing is 14.50" (368mm) wide by 14.50" (368mm) tall as shown in the image (right).

2. The power vent termination is secured to the sidewall by the left, right, top and bottom nailing flanges shown on page 6.

3. The power vent termination requires a 1/8" clearance to the siding to permit servicing of the blower motor. With this clearance requirement in mind, the opening required in the siding is 15.63" (397mm) wide by 13.13" (333.5mm) tall.

Required opening in framing & sheathing

10.00

14.50

Power Vent installed in required opening in framing & sheathing

Required opening in finished siding

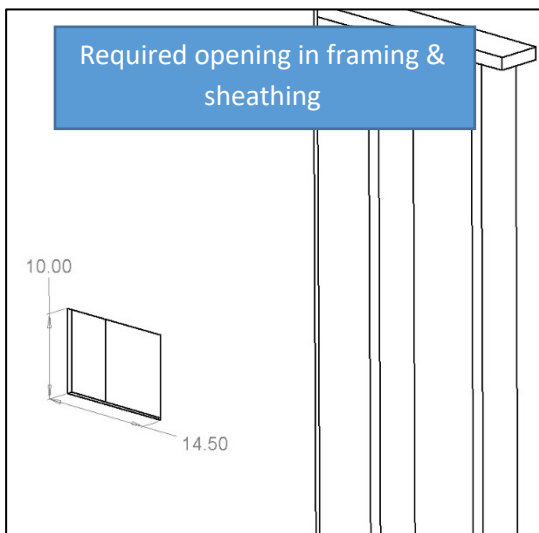13.13

15.63

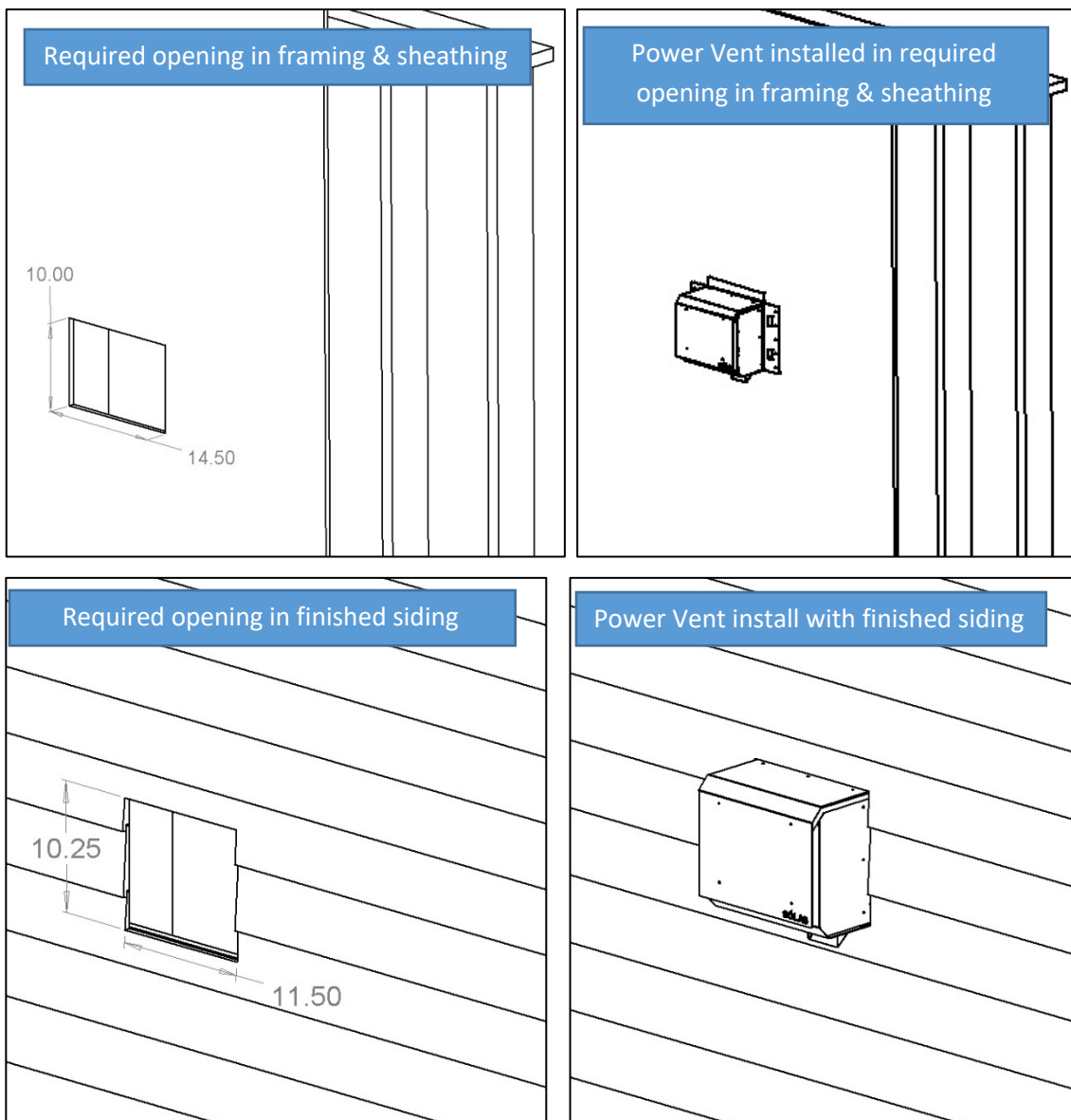Power Vent install with finished siding

SURFACE MOUNT (SIDE WALL) INSTALLATION

NOTE: Locate the power vent termination following the clearance to combustible table, venting configuration diagram (Fig. #2 & 3), and terminal location diagram (Fig. #1).

NOTE: The following instructions are for use SCPV-130-SURFACE & SCPV-10-SRSM only.

1. SCPV-130-SURFACE and SCPV-10-SRSM are designed to fit on center in between standard exterior 2x6 exterior framing. The opening required in the framing and exterior sheathing is 14.50" (368mm) wide by 10.00" (254mm) tall as shown in the image (right).

2. The power vent termination is secured to the sidewall by the left and right nailing flanges shown on page 7.

3. The power vent termination requires a 1/8" clearance to the siding to permit servicing of the blower motor. The opening required in the siding is 11.50" (292mm) wide by 10.25" (260mm) tall.

Required opening in framing & sheathing

Power Vent installed in required opening in framing & sheathing

Required opening in finished siding

Power Vent install with finished siding

SECURE WITH PHILIPS
PAN HEAD #8 BY 3/4 IN.
WOOD SCREWS, 8 PCS

APPLY SILICONE
TO THIS SURFACE

SITE FABRICATED
CHASE

12.9   18.9

11.9

17.9

Final installation height: 21.0" (533mm)

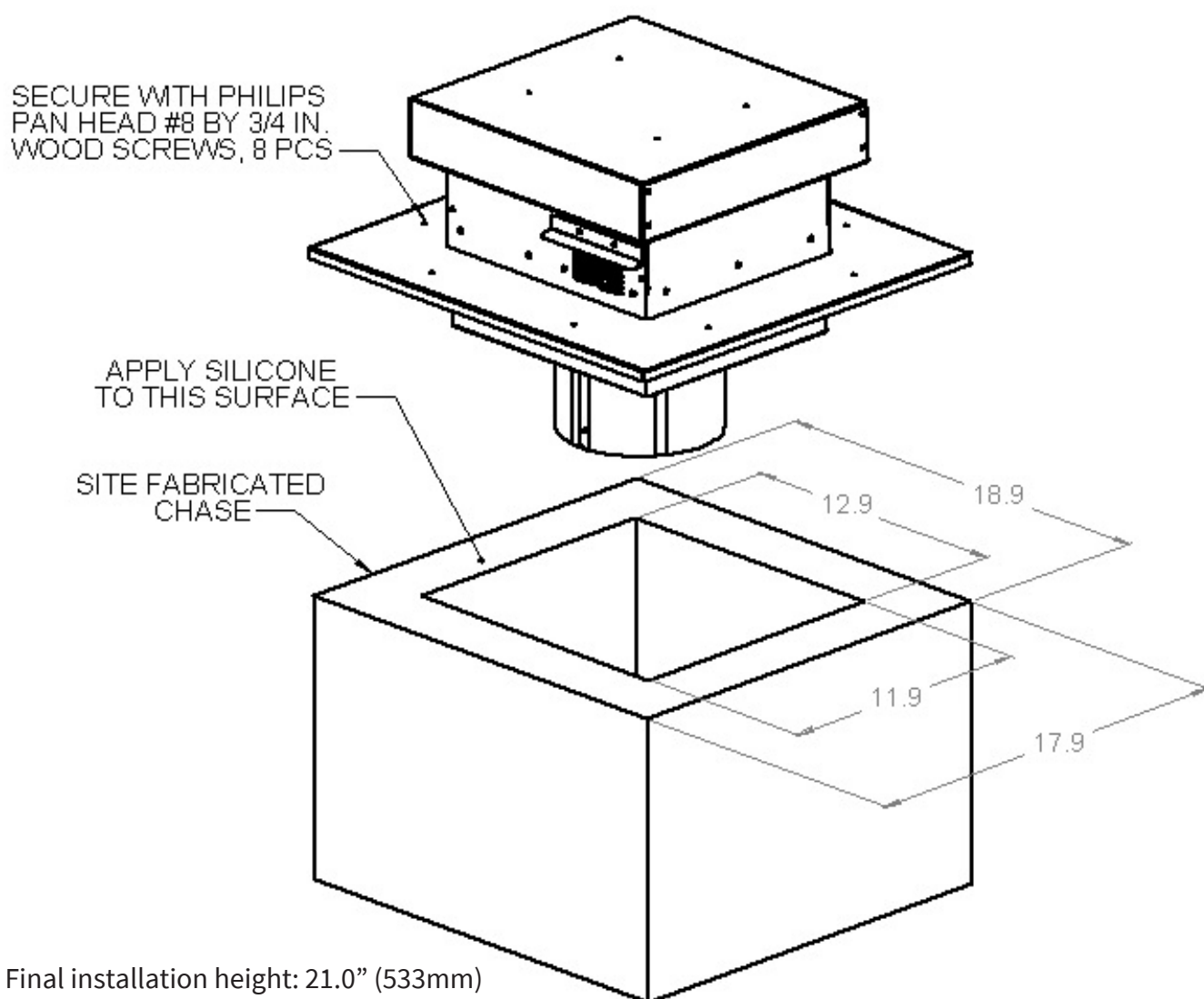Site fabricated chase minimum height: 14.5" (368mm)

Figure 5

NOTE: SCPV-130-VERTICAL shown, vertical terminating installations **MUST** use SCPV-130-VERTICAL only.

NOTE: LOCAL CODES OR REGULATIONS MAY REQUIRE INCREASED CLEARANCES.

For flat roof installations, check local codes for dimensional requirements for the site fabricated chase.

WARNING: This installation manual covers the functional requirements for optimal performance of your fireplace with power vent installation, consult with a professional architect, civil engineer, or home builder regarding the building code, aesthetic and functional finishing requirements of the home.

VERTICAL (THRU THE ROOF) INSTALLATION

NOTE: The site fabricated chase must be a minimum of 14.5" (368mm) tall, additional height may be required to prevent obstruction of the exhaust outlet by snow accumulation.

NOTE: Orientate the power vent so the exhaust outlet is facing away from the home, roof, or any potential obstructions. The chase may require additional height to avoid obstructions or nearby features.

NOTE: when fabricating the chase, be sure that combustibles and electrical wiring are a minimum of 1.5" (38mm) from the vent pipe at all times.
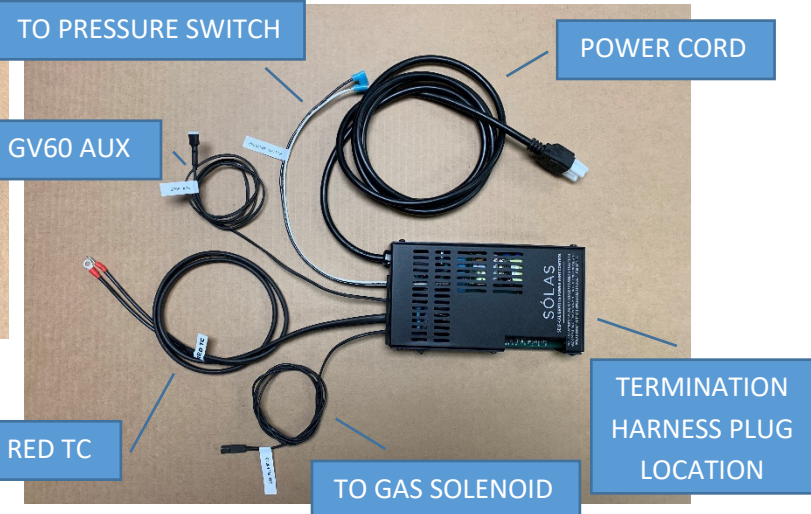
1. The inside dimensions of the site fabricated chase should be 12.9" (328mm) long by 11.9" (302mm) wide. The exhaust outlet is on the 12.9" (328mm) long side of the chase.

2. Exterior dimensions of the site fabricated chase should be 18.9" (480mm) long by (455mm) wide. The exhaust outlet is on the 18.9" (480mm) long side of the chase.

3. The vent pipe should be installed so that it sits 6" (152mm) below the top surface of the site fabricated chase. This will ensure that the power vent termination engages by at least 1.5" (38mm).

4. When running **SCPV-TWH-XX** - Self-Calibrating Power Vent termination wire harness through the chase to meet the termination, be sure the harness is a minimum of 1.5" (38mm) from the vent pipe at all times. Secure the wire harness as necessary to be sure this distance is maintained.

5. Apply a silicone sealant to the mating surface of the site fabricated chase as the termination is installed. Secure the termination with the (8pcs) included #8 x ¾ pan head wood screws.

TO PRESSURE SWITCH

POWER CORD

GV60 AUX

RED TC

TO GAS SOLENOID
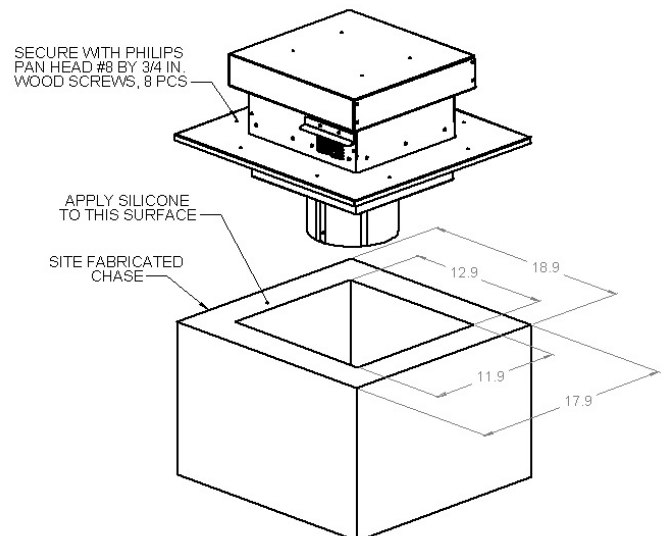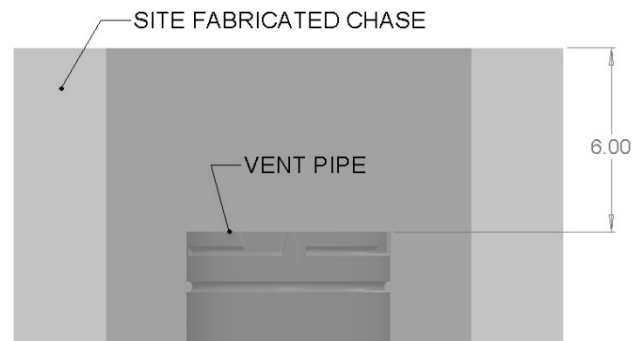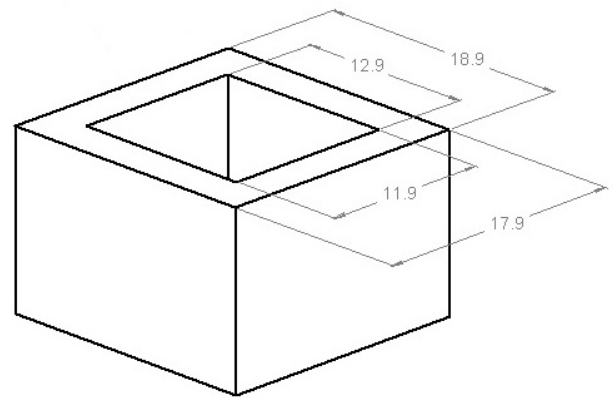
TERMINATION HARNESS PLUG LOCATION

The above image shows the power vent control, part #SCPV-900C

There are 4 wire harnesses in addition to the power cord along the top edge of the Self-Calibrating Power Vent Control. The lower "Termination Harness Plug" is for the Termination Wire Harness which carries power to the power vent and restrictor position signals back to the control board. (see below).

The image above shows the pressure switch (**SCPV-905PS**) used with the Self-Calibrating Power Vent. The black port should be left open to the atmosphere; the grey port should be connected to the vent pressure tap using the included silicone tubing. The pressure switch requires a negative pressure of 0.05" W.C. to confirm the power vent is running and permit the gas solenoid to open allowing the main burner to ignite.

Connect the black 10-pin bladed connector of the Termination Wire Harness (SCPV-TWH-XX) to the Termination Harness Plug, the White 10-pin header will plug into the Power Vent Termination. As is required for all combustible materials, this Wire Harness must remain at least 1.50" (38mm) away from the vent pipe at all times.

This side of the harness plugs into the power vent control

This side of the harness plugs into the power vent termination

FOR VENT RUNS <u>OVER</u> 10FT IN LENGTH:

Install the Self-Calibrating Power Vent Pressure Port Adapter (SCPV-946DVA) immediately following the appliance starter collar (or 45º elbow off the unit when required). Connect the silicone tube from the pressure tap on the vent adapter to the light grey port on the control using the pressure switch tubing provided with the Self-Calibrating Power Vent Pressure Switch (SCPV-905GS). 12ft of tubing is supplied with the Powervent control, (SCPV-900C). Only use the length of tubing that is necessary for your installation, trim to length. Tape all seams in the venting system using Aluminum Foil HVAC Tape.

FOR VENT RUNS <u>UNDER</u> 10FT IN LENGTH:
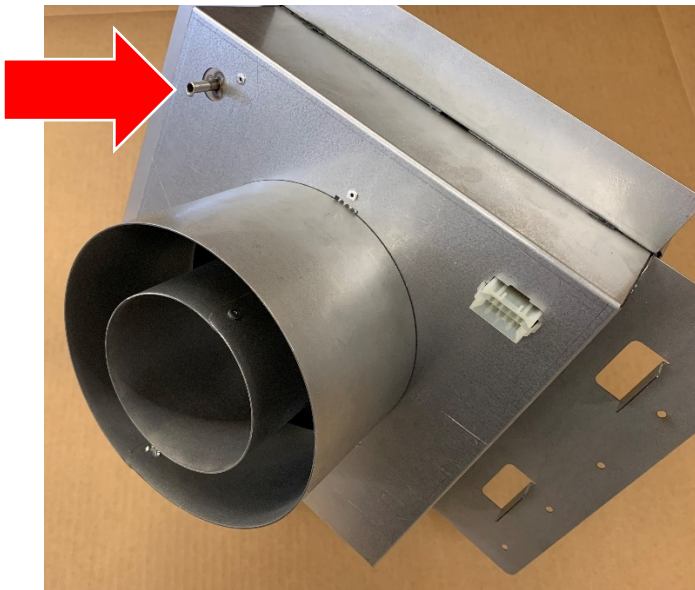
For vent runs that are under 10 feet in length excluding elbows the Self-Calibrating Power Vent Pressure Port Adapter (SCPV-946DVA) **<u>WILL NOT BE USED</u>**. Installations which use less than 10 feet of vent pipe excluding elbows will be terminated using SCPV-10-SRSM, Self-Calibrating Power Vent Surface-Mount Termination. Once the fireplace is in position, vent run and termination are installed, connect the silicone pressure tubing from the pressure switch near the power vent control to the pressure port on the back of the power vent termination. 12ft of tubing is supplied with the Powervent control, (SCPV-900C). Only use the length of tubing that is necessary for your installation, trim to length. SCPV-10-SRSM is the only termination which includes this port.

ELECTRICAL INSTRUCTIONS

NOTE: Once the electrical wiring has been completed, test the system to be sure its performance is as desired before the finishing work is completed and the fireplace is enclosed within the wall.

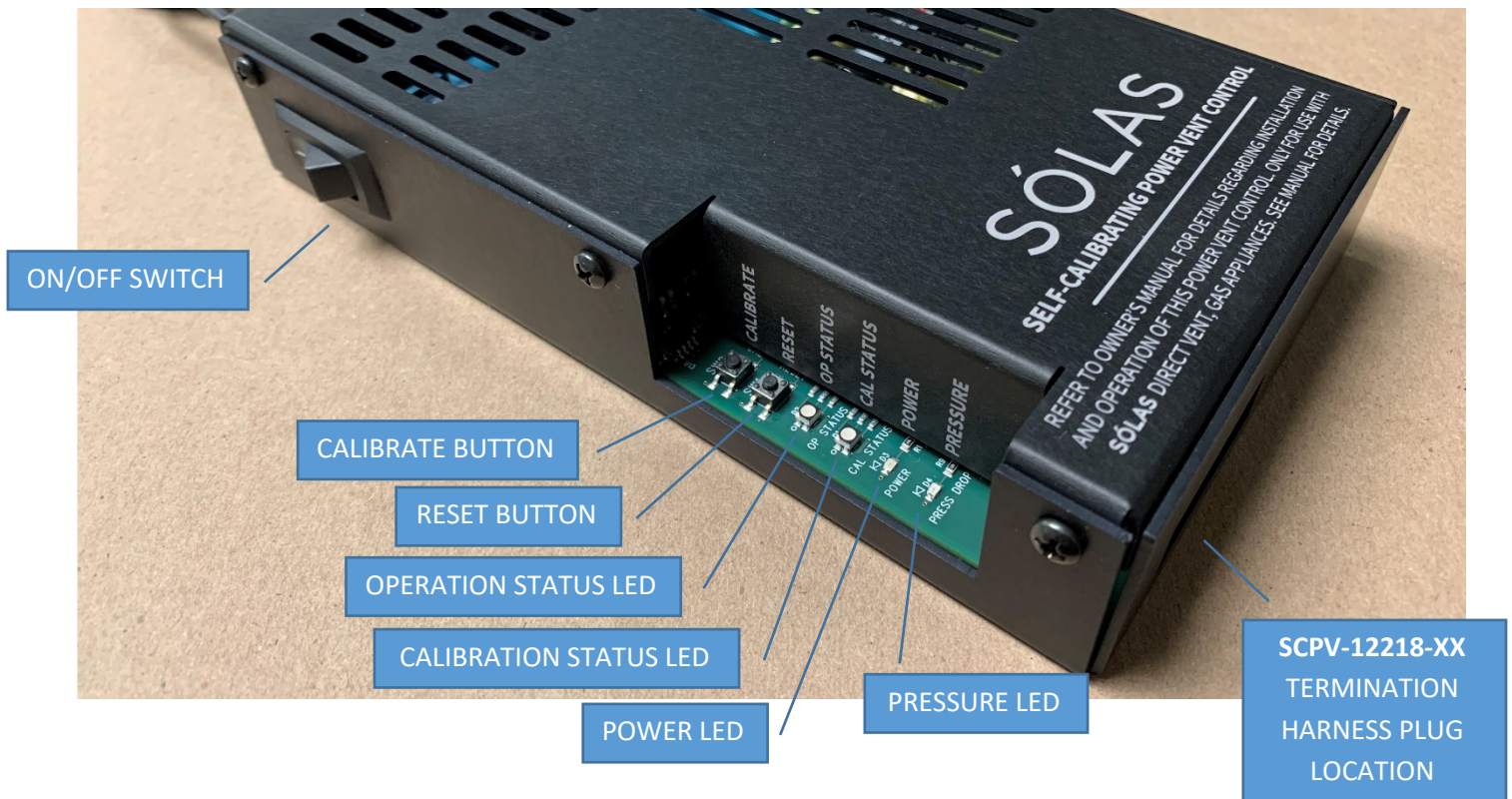**WARNING**

All electrical shall be completed by a licensed Electrician and must conform with local building code. Improper installation may result in property damage, injury, or loss of life.
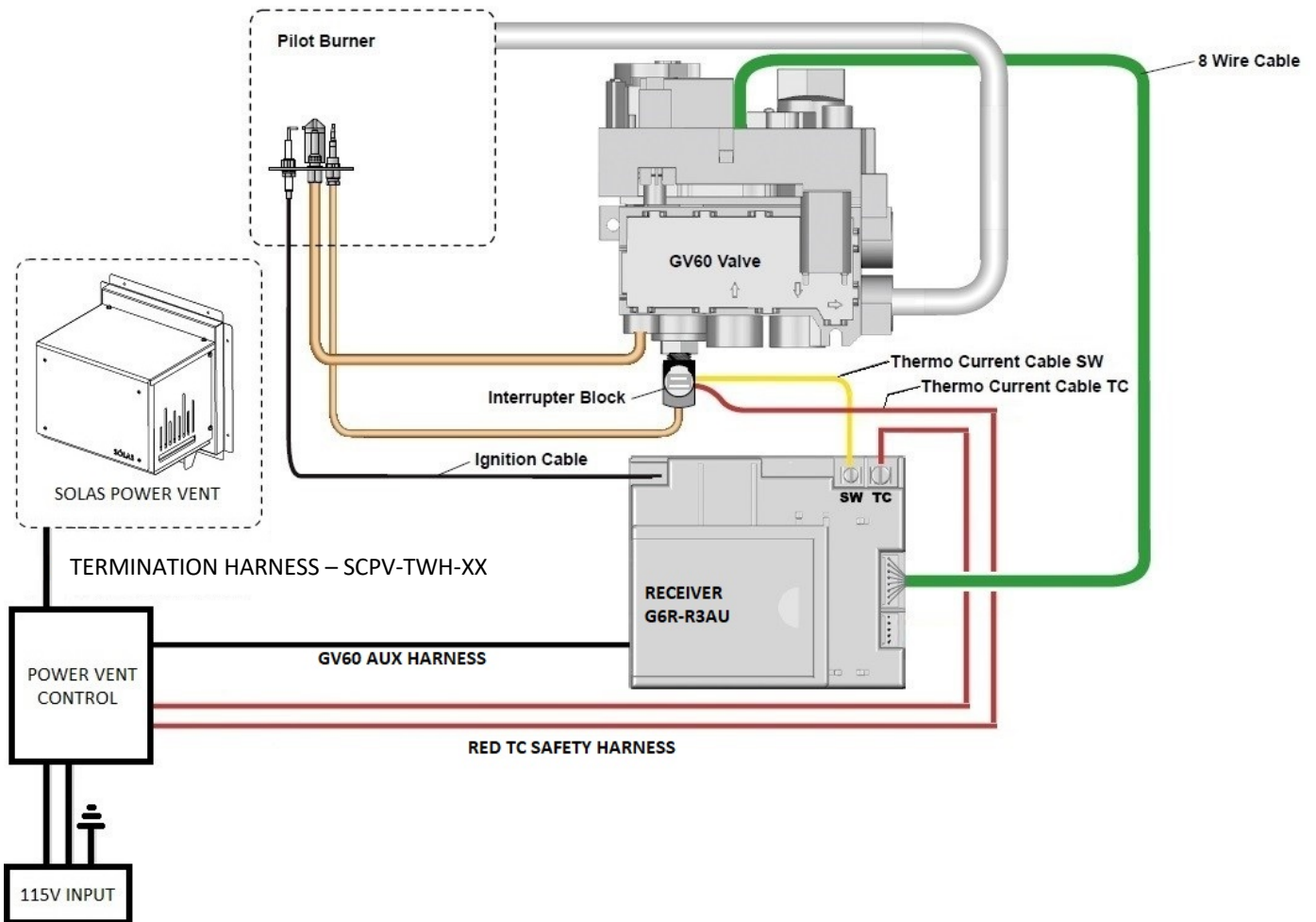
Caution: Label all wires prior to disconnection when servicing the controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

CALIBRATION AND OPERATION

ON/OFF SWITCH

CALIBRATE BUTTON

RESET BUTTON

OPERATION STATUS LED

CALIBRATION STATUS LED

POWER LED

PRESSURE LED

SCPV-12218-XX
TERMINATION
HARNESS PLUG
LOCATION

WARNING: BEFORE SERVICING THE POWERVENT CONTROL, DISCONNECTING OR RECONNECTING ANY WIRE HARNESS, DISCONNECT POWER TO THE APPLIANCE.

WARNING: ALL INSTALLATION, SERVICING, AND TROUBLESHOOTING MUST BE PERFORMED BY A QUALIFIED GAS TECHNICIAN.

NOTE: ANY TIME POWER IS APPLIED TO THE POWER VENT CONTROL, THE CONTROL WILL BEGIN A 60 SECOND PURGE CYCLE, DURING THIS PURGE CYCLE THE CALIBRATION SEQUENCE CANNOT BE INITIATED. DURING THE PURGE CYCLE, THE "*OPERATION STATUS LED*" WILL BE BLUE.

NOTE: ANY TIME THE RESET BUTTON IS PRESSED ON THE POWER VENT CONTROL, THE CONTROL WILL BEGIN A 60 SECOND PURGE CYCLE, DURING THIS PURGE CYCLE THE CALIBRATION SEQUENCE CANNOT BE INITIATED. DURING THE PURGE CYCLE, THE "*OPERATION STATUS LED*" WILL BE BLUE.


NOTE: In the event of a power loss during normal operation, the power vent and fireplace will shut down. When power is restored the unit will be locked out. To relight the unit, press the off button on the remote, listen for a single beep from the GV60 control. Once a single beep is heard, the fireplace can be relit following the instructions on the lighting label of the appliance.
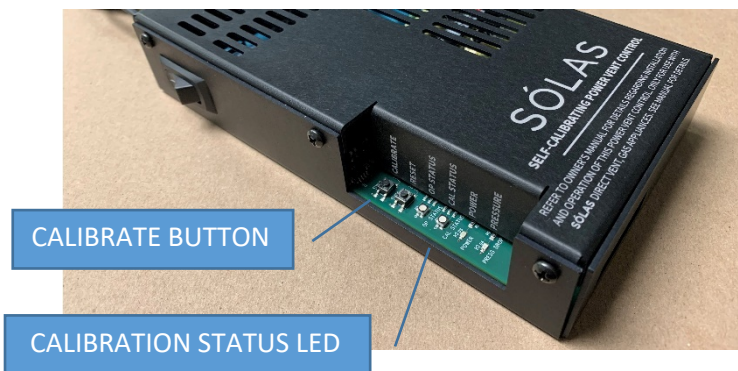
Calibration Sequence

When the fireplace, venting, and Power vent termination have been installed, the calibration sequence can be initiated prior to test burning the fireplace for the first time.

1. Connect power to the power vent control, turn on the on/off switch. A 60 second purge cycle will begin; calibration cannot begin during this time. During the purge cycle, the "Operation Status LED" will be blue. Once the purge cycle has completed, the LED will turn off.


ON/OFF SWITCH

OPERATION STATUS LED
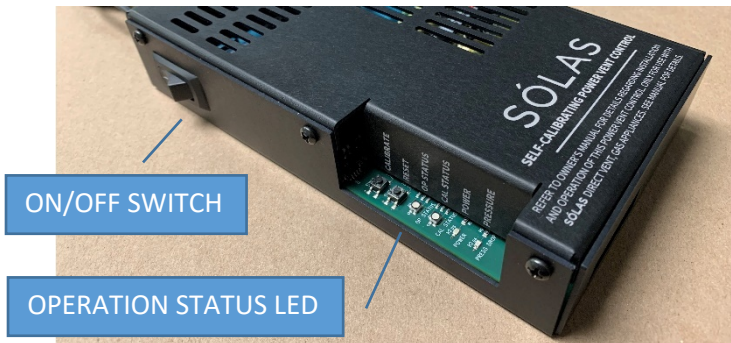
2. Press the "Calibration" button to begin the calibration sequence. The "Calibration Status LED" will turn blue as the calibration sequence begins.

CALIBRATE BUTTON

CALIBRATION STATUS LED

3. Without any user intervention, the calibration sequence is as follows:

   The restrictor contained within the power vent termination will close. Once the restrictor is closed, the power vent blower will start. When the power vent blower has reached is operating RPM, the restrictor will begin to open. Once the appropriate pressure is reached within the vent system, the "Pressure LED" will illuminate green and the restrictor will lock in the correct position.

PRESSURE LED
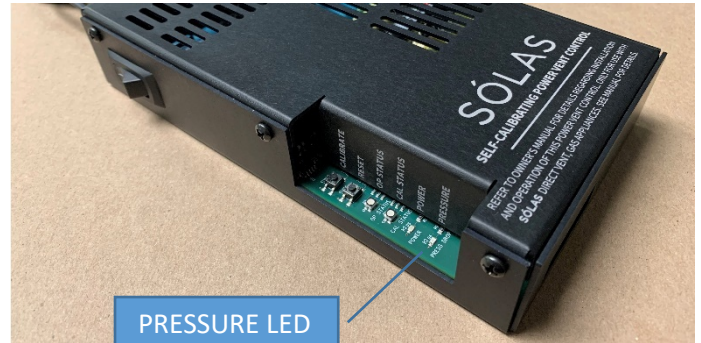
4. Upon a successful calibration, the "Calibration Status LED" will turn green.

CALIBRATION STATUS LED

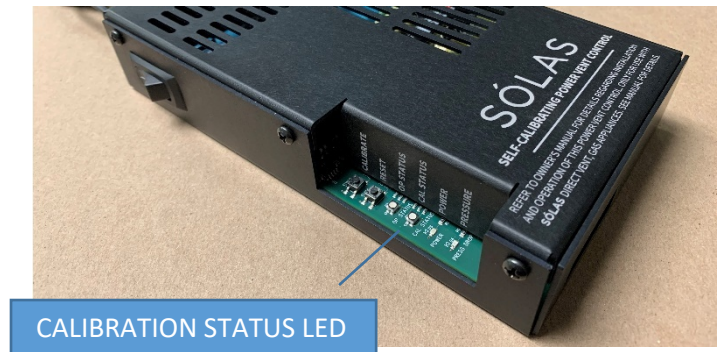5. The fireplace is now ready to operate.

NOTE: It should only be necessary to complete the calibration sequence when the appliance is first installed, however, if a service technician wants to conduct a calibration sequence at any time in the product's life this is ok.

NOTE: If power is disconnected from the appliance after the calibration sequence has been successfully completed, the "Calibration Status LED" will no longer be illuminated green, however, the restrictor will not have moved and the power vent system will still operate normally.
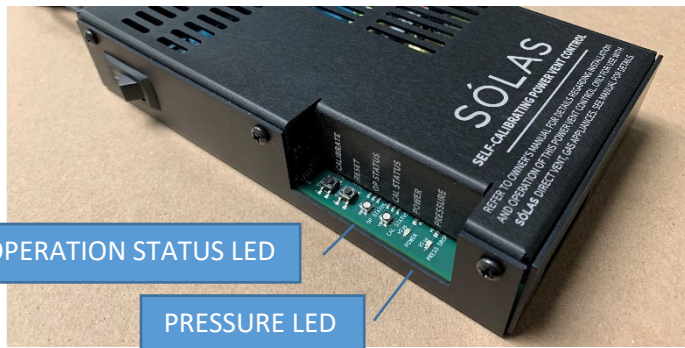
Normal Operation

The SPARK Self-Calibrating Power Vent control is designed to integrate seamlessly with the Maxitrol GV60 control system used in all SPARK Direct-Vent Gas Fireplaces. No user intervention is required for the power vent control to operate during normal operation of the appliance, the following is to aid in understanding typical operation characteristics.

1. Light the fireplace using the SPARK fireplace remote, refer to the lighting label or lighting instructions in the product manual.

2. As the lighting sequence begins, the power vent will turn on.

3. When the pressure switch closes the "pressure LED" will turn on, the "Operation Status LED" will turn green.

OPERATION STATUS LED

PRESSURE LED

4. When the "Operation Status LED" turns green, indicating normal operation, the gas solenoid (SCPV-914GS) will open, allowing the main burner to ignite.

OPERATION STATUS LED
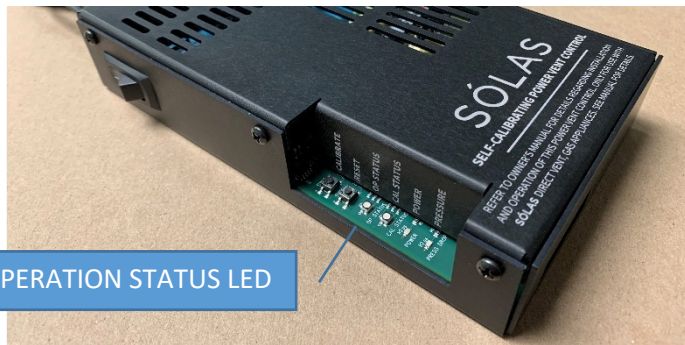
5. The power vent blower will remain on until the unit is turned to standby (pilot only) or shut down completely.

6. When the unit is turned to standby (pilot only) or shut down completely, the "Operation Status LED" will turn blue, and a 60 second purge cycle will begin. Once the purge cycle is complete, the blower will remain off until the main burner is lit again.

NOTE: ANY TIME THE RESET BUTTON IS PRESSED ON THE POWER VENT CONTROL, THE CONTROL WILL BEGIN A 60 SECOND PURGE CYCLE, DURING THIS PURGE CYCLE THE CALIBRATION SEQUENCE CANNOT BE INITIATED. DURING THE PURGE CYCLE, THE "*OPERATION STATUS LED*" WILL BE BLUE.

NOTE: During thermostatic mode, any time the GV60 control turns off the main burner, the power vent will enter a purge cycle and then turn off. The next time the GV60 control initiates a call for heat, the power vent will start as described above, permitting the main burner to ignite.

NOTE: If power is disconnected from the appliance after the calibration sequence has been successfully completed, the "Calibration Status LED" will no longer be illuminated green, however, the restrictor will not have moved and the power vent system will still operate normally.

NOTE: In the event of a power loss during normal operation, the power vent and fireplace will shut down. When power is restored the unit will be locked out. To relight the unit, press the off button on the remote, listen for a single beep from the GV60 control. Once a single beep is heard, the fireplace can be relit following the instructions found on the lighting label of the appliance.

WARNING: BEFORE SERVICING THE POWERVENT CONTROL, DISCONNECTING OR RECONNECTING ANY WIRE HARNESS, DISCONNECT POWER TO THE APPLIANCE.

WARNING: ALL INSTALLATION, SERVICING, AND TROUBLESHOOTING MUST BE PERFORMED BY A QUALIFIED GAS TECHNICIAN.

Calibration Sequence Troubleshooting

Should any of the following scenarios occur, please check the following:

Concern: Calibration sequence begins as normal but concludes with "Calibration sequence LED" turning from blue to red.

**Cause:** Restrictor opened fully without the pressure switch closing.

Check:

1. Is the pressure switch plugged in?

2. Has pressure tube been installed on wrong port on pressure switch? (Should be connected to light colored port).

INSTALL PRESSURE TUBE ON THE GREY PORT

3. Actuate pressure switch manually (suck on pressure line), does "pressure" LED light up? If not, replace pressure switch.
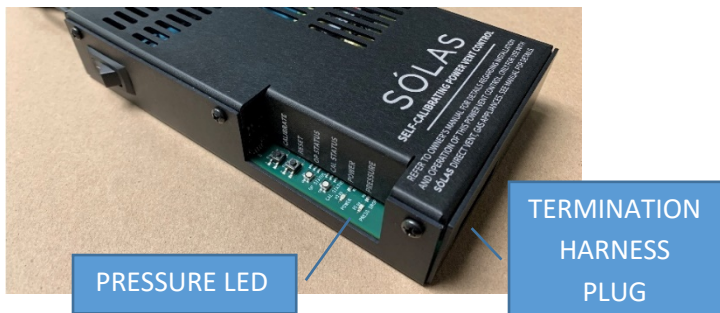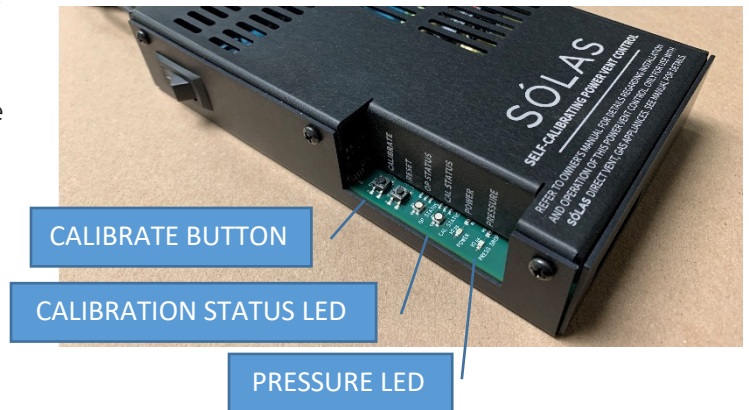

PRESSURE LED

TERMINATION HARNESS PLUG

4. Is the fireplace fully assembled, glass installed on the fireplace?

5. Is the vent system within approved configurations for this appliance?

6. Is the vent system free of leaks, compromised or poor joints?

7. Is Termination wire harness securely plugged into both the control and the termination?

Concern: "Calibration Status LED" turns red when "Calibration" button is pressed.

CALIBRATE BUTTON

CALIBRATION STATUS LED

PRESSURE LED

**Cause:** Pressure switch is closed while power vent is off.

Check:

1. Actuate pressure switch manually (suck on pressure line), try again. "Pressure LED" should illuminate as the switch is actuated.

2. Replace pressure switch.

Concern: Calibration sequence does not start.

Cause: Powervent control is turned off, does not have power, or is currently performing a purge cycle.

Check:

1. Power vent control is currently in its purge cycle, the "Operation Status LED" will be blue during the purge cycle. Once the purge cycle ends after 60 seconds, the LED will turn off and a calibration cycle can be initiated.
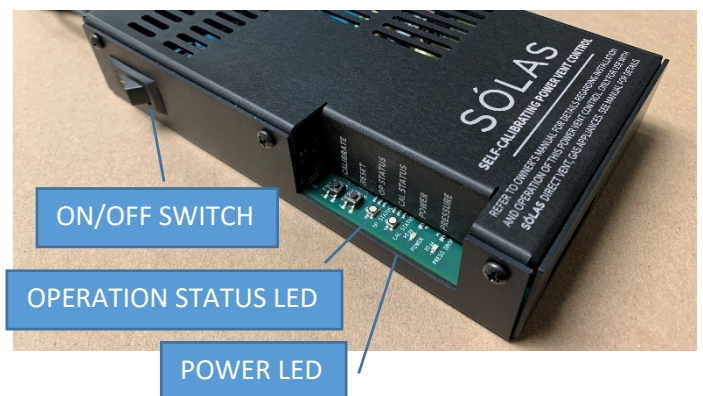
ON/OFF SWITCH

OPERATION STATUS LED

POWER LED

2. Check that "Power LED" is illuminated, if not, turn on the power vent control.

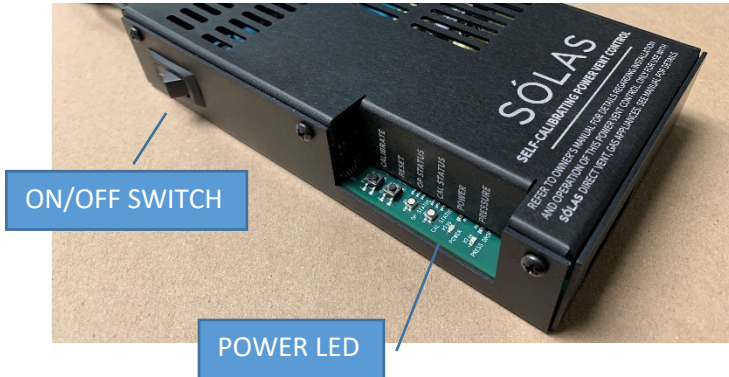3. Connect power to Power vent control.

Normal Operation Troubleshooting

Should any of the following scenarios occur, please check the following:

Concern: Powervent does not start.

ON/OFF SWITCH

POWER LED

Cause: power vent control is turned off; power vent control does not have power. "GV60 AUX" harness is not plugged into the Maxitrol GV60 AUX port.

Check:

1. Check that "Power LED" is illuminated, if not, turn on the power vent control.

2. Connect power to Power vent control.

3. Check that "GV60 AUX" harness is plugged securely into the Maxitrol GV60 AUX port.

Concern: Powervent does not start, "Operation Status LED" is red.
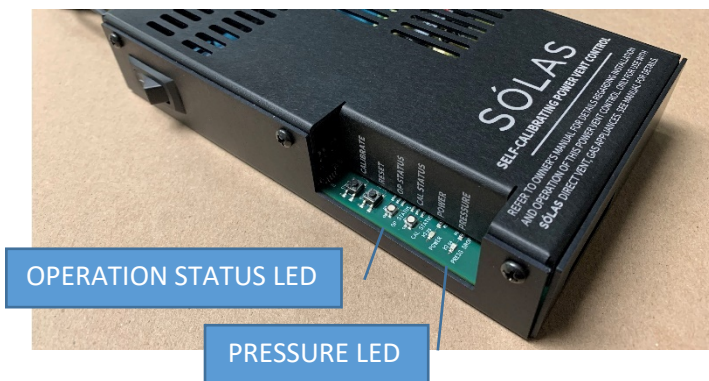
OPERATION STATUS LED

PRESSURE LED

**Cause:** Pressure switch is closed while power vent is off.

Check:

1. Actuate pressure switch manually (suck on pressure line), try again. "Pressure LED" should illuminate as the switch is actuated.

2. Replace pressure switch.

Concern: Normal Operation begins as described (left) but "Operation status LED" turns red after the pilot lights but before the main burner ignites.

Cause: Power vent control did not get signal pressure switch has closed.

Check:

1. Is the pressure switch plugged in?

2. Actuate pressure switch manually (suck on pressure line), does "pressure" LED light up? If not, replace pressure switch.

RESET BUTTON

OPERATION STATUS LED
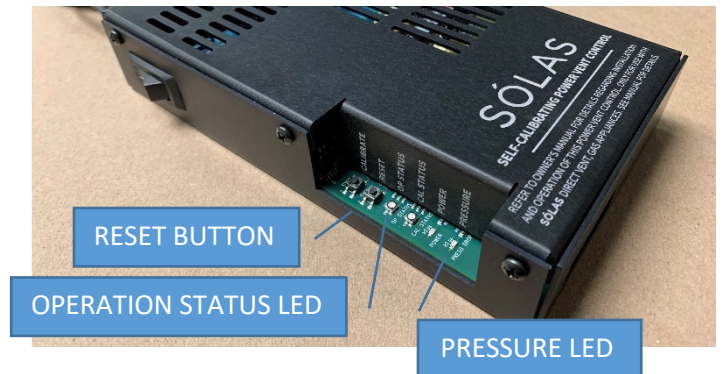
PRESSURE LED

3. Has pressure tube been installed on wrong port on pressure switch? (Should be connected to light colored port).

INSTALL PRESSURE TUBE ON THE GREY PORT

4. Is the fireplace fully assembled, glass installed on the fireplace?

5. Does the fireplace calibrate successfully?

6. Is the power vent blower running as expected? (easiest way to check is to press reset button on power vent board, the 60 second purge cycle should begin, the "Operation status LED" should be blue, the power vent blower should be running.

If this troubleshooting guide does not resolve your concern, please contact SPARK at:

Phone: (203)791-2725   **Email:** info@sparkfires.com

REPLACEMENT PARTS

Item	Part Number	Description
1	SCPV-900C	Self-Calibrating Power Vent Control
2	SCPV-905PS	Self-Calibrating Power Vent Pressure Switch (with pressure switch tubing)
3	SCPV-914GS	Self-Calibrating Power Vent Gas Solenoid
4	SCPV-TWH-25	Termination Wire Harness, 25FT long
5	SCPV-TWH-50	Termination Wire Harness, 50FT long
6	SCPV-TWH-100	Termination Wire Harness, 100FT long
7	SCPV-TWH-130	Termination Wire Harness, 150FT long
8	SCPV-946DVA	Self-Calibrating Power Vent Pressure Port Vent Adapter
9	SCPV-130-FLUSH	Self-Calibrating Power Vent Flush-Mount Termination (requires SCPV-946DVA)
10	SCPV-130-SURFACE	Self-Calibrating Power Vent Surface-Mount Termination (for use with vent runs over 10 feet in length, requires SCPV-946DVA)
11	SCPV-10-SRSM	Self-Calibrating Power Vent Surface-Mount Termination (for use with vent runs under 10 feet in length)
12	SCPV-130-VERTICAL	Self-Calibrating Power Vent Top-Vent Termination (requires SCPV-946DVA) (Includes (8x) #8x3/4" Philips head wood screws)

NOTE: Items 9, 10 and 12 require the use of item 8.

NOTE: Item 11 is not to be used with item 8.

WARNING: ALL INSTALLATION, SERVICING, AND TROUBLESHOOTING MUST BE PERFORMED BY A QUALIFIED GAS TECHNICIAN.

For replacement parts, technical support, and customer service contact SPARK

SPARK MODERN FIRES   (T) 203-791-2725

99B Greenwood Ave

Bethel, CT 06801   info@sparkfires.com

NOTES

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We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

RECORD YOUR PRODUCT INFORMATION

Model #: _____ Serial Number: _____

Date Purchased: _____ Date Installed: _____