

Installer: Leave these instructions with the appliance this terminal is serving.
Consumer: Retain these instructions for future reference. These instructions are to be used in conjunction with the appliance and PVA instructions.

INSTALLATION MANUAL

Certified under Canadian and American National Standards: ANSI Z21.88 • CSA 2.33 for vented gas fireplace heaters and ANSI Z21.50 • CSA 2.22 for vented decorative gas appliances.

GENERAL INFORMATION

These installation instructions must be used in conjunction with the appliance and appropriate PVA adapter kit installation instructions. Clearances listed in these instructions supersede those in the appliance's installation instructions.

Power venting of direct vent appliances may result in the reduction of efficiencies by as much as ten percent. Consider this in making any venting and heating decisions in any installation application.

Selecting and installing the appliance

When selecting a gas appliance for use with the GPV, take into consideration the various requirements and limitations in the venting installation section for the following models:

Models equipped with an Intermittent Pilot Ignition (IPI)

It is recommended that the GPV be used with a gas appliance equipped with an Intermittent Pilot Ignition (IPI). Downward vertical vent runs are permitted with an IPI system. See venting section in appropriate PVA installation instructions.

Models equipped with Millivolt / Standing Pilot

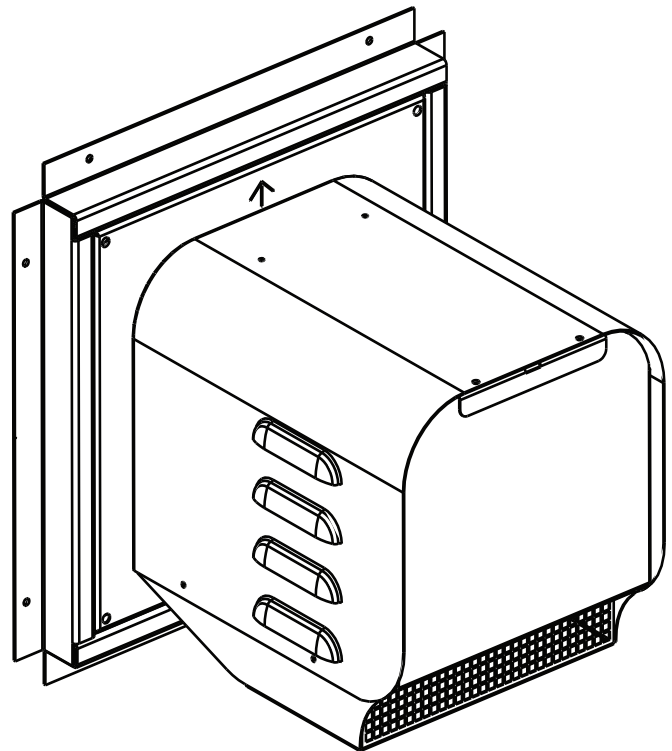
Downward vertical vent runs are not permitted with a standing pilot system. See venting section in appropriate PVA installation instructions.

INSTALLATION TO BE DONE BY A QUALIFIED INSTALLER to conform with local codes. In absence of local codes, install to the current National Building Code of Canada or to regional building codes in the United States. It must be electrically connected and grounded in accordance with local codes. In the absence of local codes, use the current CSA C22.1 Canadian Electrical Code in Canada or the ANSI/NFPA 70 Electrical Code in the United States.

The GPV operates on 120 VAC 60 Hz electrical service which is supplied at the firebox junction box.

Gas Power Vent (GPV)

The GPV is a Direct Vent Terminal designed to allow installation of gas appliances where typical vent configurations cannot be achieved.



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 www.continentalfireplaces.com • ask@continentalfire.on.ca

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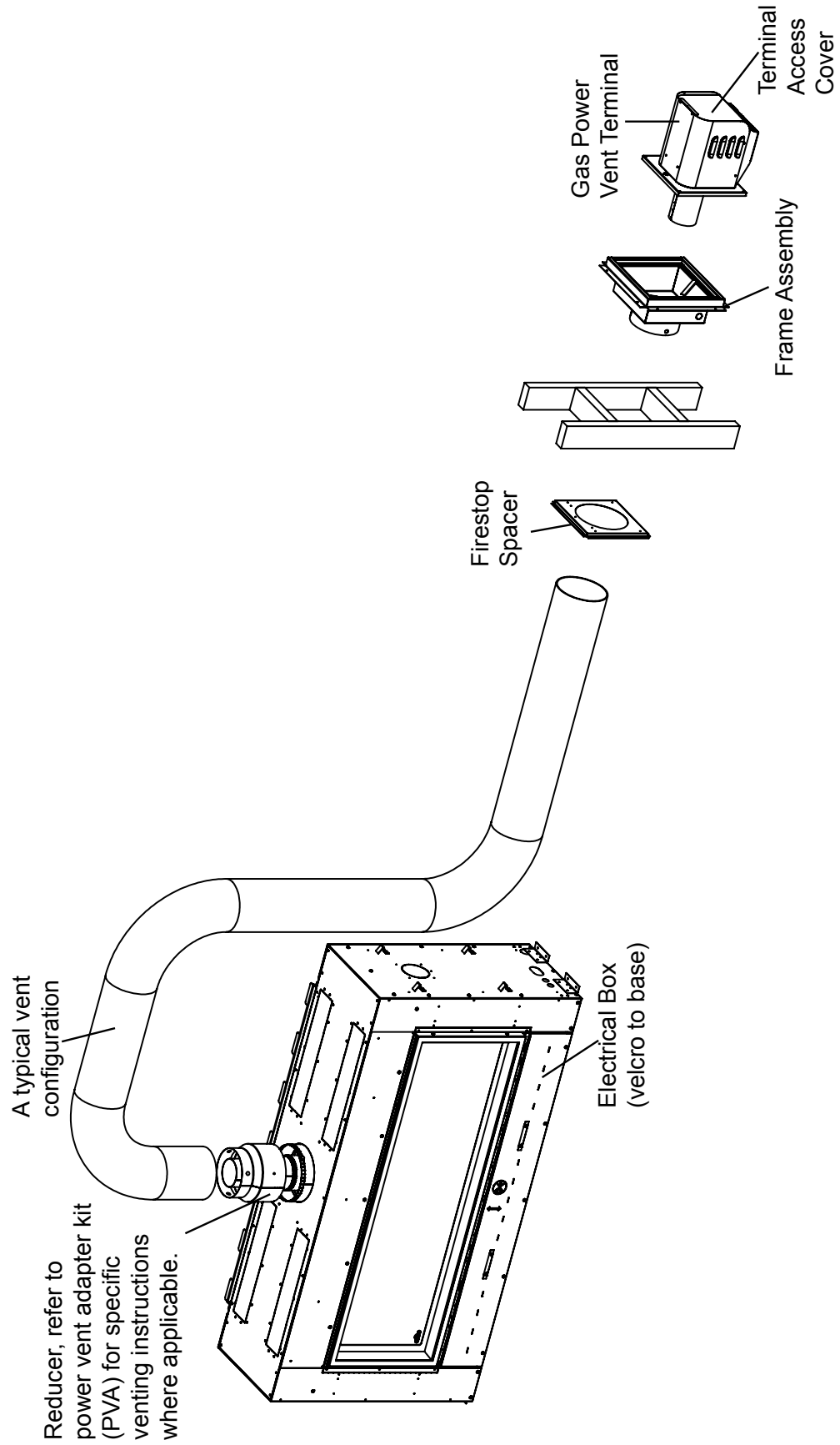
NOTE: Changes, other than editorial, are denoted by a vertical line in the margin.

1.0 venting

There are specific adaptors and venting requirements for each appliance, refer to your power vent adaptor leaflet for more information.

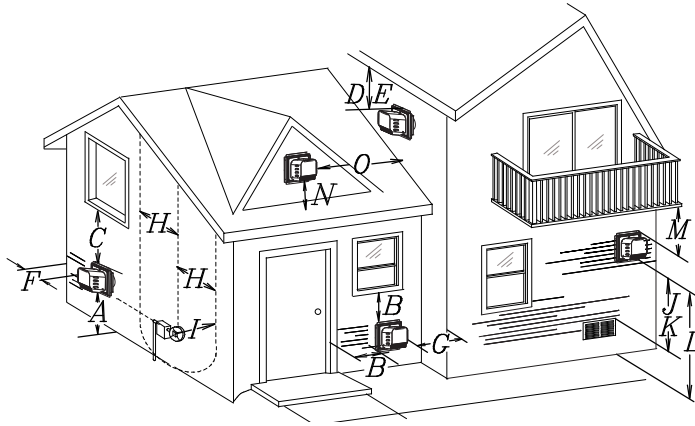
For complete installation instructions, visit the Professionals Support Center website.

1.1 installation overview

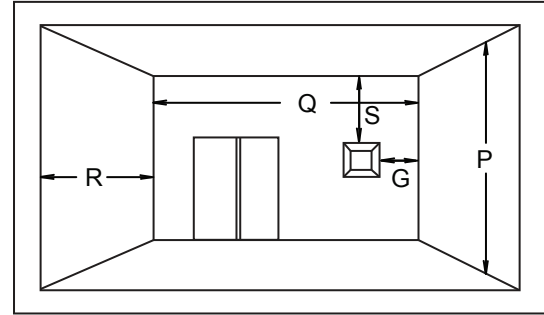


1.2 vent terminal clearances

EN



COVERED BALCONY APPLICATIONS ††*



$Q_{MIN} = 3 \text{ feet}$ (0.9m)	$R_{MAX} = 2 \times Q_{ACTUAL}$	$R_{MAX} \leq 15 \text{ feet}$ (4.6m)
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	INSTALLATIONS		
	CANADA	U.S.A.	
A	12" (304.8mm)	12" (304.8mm)	Clearance above grade, veranda porch, deck or balcony.
B	12" (304.8mm) ^Δ	9" (228.6mm) ^Δ	Clearance to windows or doors that open.
C	12" (304.8mm)*	12" (304.8mm)*	Clearance to permanently closed windows.
D	18" (457.2mm)**	18" (457.2mm)**	Vertical clearance to ventilated soffits located above the terminal within a horizontal distance of 2' (0.6m) from the center line of the terminal.
E	12" (304.8mm)**	12" (304.8mm)**	Clearance to unventilated soffit.
F	0" (0mm)	0" (0mm)	Clearance to an outside corner wall.
G	0" (0mm)	0" (0mm)	Clearance to an inside non -combustible corner wall or protruding non -combustible obstructions (chimney, etc.).
	2" (50.8mm)	2" (50.8mm)	Clearance to an inside combustible corner wall or protruding combustible obstructions (vent chase, etc.).
H	3' (0.9m)	3' (0.9m)***	Clearance to each side of the center line extended above the meter / regulator assembly to a maximum vertical distance of 15' (4.6m).
I	3' (0.9m)	3' (0.9m)***	Clearance to a service regulator vent outlet.
J	12" (304.8mm)	9" (228.6mm)	Clearance to a non-mechanical air supply inlet to the building or a combustion air inlet to any other appliance.
K	6' (1.8m)	3' (0.9m)	Clearance to a mechanical air supply inlet.
L	7' (2.1m) ‡	7' (2.1m)***	Clearance above a paved sidewalk or paved driveway located on public property.
M	12" (304.8mm) ††	12" (304.8mm)***	Clearance under a veranda, porch or deck.
N	12" (304.8mm)	12" (304.8mm)	Clearance above the roof.
O	2' (0.6m) †*	2' (0.6m) †*	Clearance from an adjacent wall including neighbouring buildings.
P	8' (2.4m)	8' (2.4m)	Roof must be non -combustible without openings.
Q	3' (0.9m)	3' (0.9m)	See chart for wider wall dimensions.
R	6' (1.8m)	6' (1.8m)	See chart for deeper wall dimensions. The terminal shall not be installed on any wall that has an opening between the terminal and the open side of the structure.
S	12" (304.8mm)	12" (304.8mm)	Clearance under a covered balcony

Δ The terminal shall not be located less than 6 feet (1.8m) under a window that opens on a horizontal plane in a structure with three walls and a roof.

* Recommended to prevent condensation on windows and thermal breakage

** It is recommended to maximize the distance to vinyl clad soffits.

*** This is a recommended distance. For additional requirements check local codes.

‡ A vent shall not terminate where it may cause hazardous frost or ice accumulations on adjacent property surfaces..

†† Permitted only if the veranda, porch, or deck is fully open on a minimum of two sides beneath the floor.

†* Recommended to prevent recirculation of exhaust products. For additional requirements check local codes.

††* Permitted only if the balcony is fully open on a minimum of one side.

1.3 vent lengths

REFER TO POWER VENT ADAPTER KIT (PVA) FOR SPECIFIC VENTING INSTRUCTIONS.

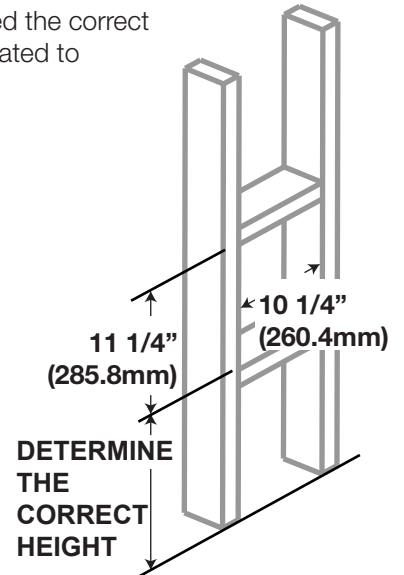
NOTE: If equipped, ACS switch must be disabled if there is any downward venting. Downward venting is not allowed with appliances that use standing pilots.

1.4 power vent terminal

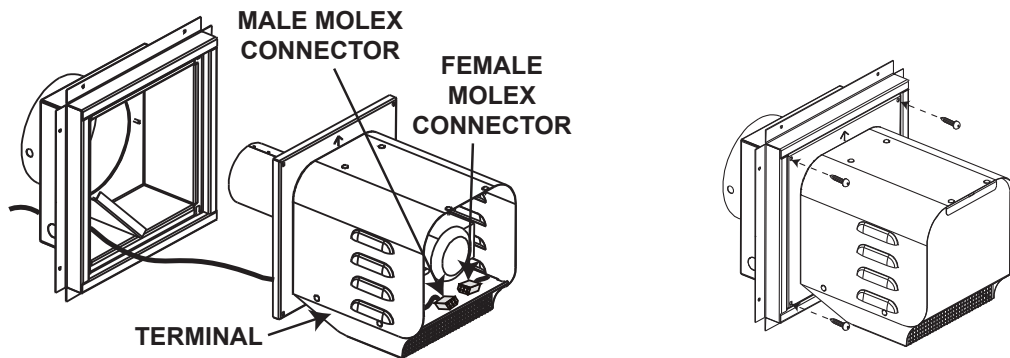
1.4.1 terminal installation

This application occurs when venting through an exterior wall. Having determined the correct height for the terminal location, cut and frame a hole in the exterior wall as illustrated to accommodate the GPV.

- A. Remove the electrical access plate from the frame assembly, then remove the knock out from this plate.
- B. Insert the wiring through the electrical access plate and engage the conduit bushing. Re-secure this plate. **NOTE: The GPV includes a 20 foot (6.1m) wire harness cable. If this cable does not reach the appliance, then it may be cut and a splice added.** These connections must conform with local codes or, in the absence of local codes, use the current CSA C22.1 Canadian Electrical Code in Canada or the ANSI/NFPA 70 National Electrical Code in the United States.
- C. Remove terminal access cover, see "INSTALLATION OVERVIEW" for location and route cable through terminal.
- D. Assemble gas power vent terminal to frame assembly.
- E. Connect the male and female connectors.
- F. Replace terminal access cover.



NOTE: Where possible, it is strongly recommended to have an access panel inside the building for servicing the unit.



1.5 firestop venting installation

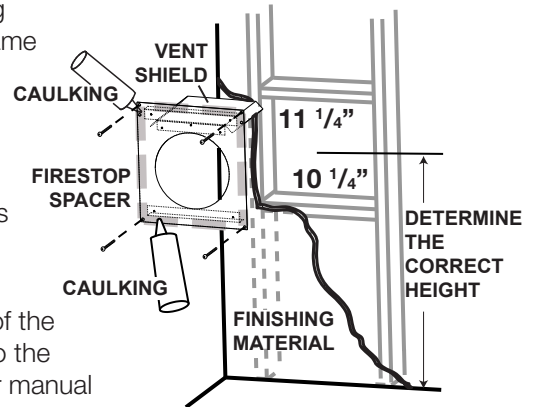
! WARNING

- The firestop assembly must be installed with the vent shield on top.
- Do not fill the cavity between the pipe and the framing with any type of material.
- Terminals must not be recessed into a wall or siding more than the depth of the return flange or the mounting plate.

This application occurs when venting through an exterior wall. Having determined the correct height for the air terminal location, cut and frame a hole in the exterior wall as illustrated to accommodate the firestop assembly. Dry fit the firestop assembly before proceeding to ensure the brackets on the rear surface fit to the inside surface of the horizontal framing.

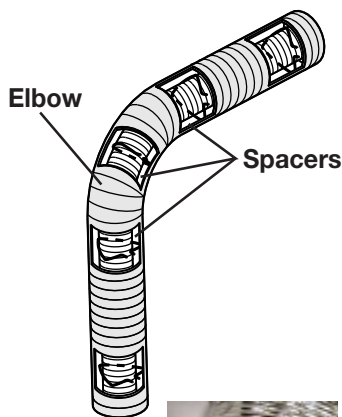
The length of the vent shield may be cut shorter for combustible walls that are less than 8 1/2" thick but the vent shield must extend the full depth of the combustible wall.

- Apply a bead of caulking (not supplied) around the corner edge of the inside surface of the firestop assembly, fit the firestop assembly to the hole and secure using the 4 screws W570-0026 (supplied in your manual baggie).
- Once the vent pipe is installed in its final position, apply high temperature sealant W573-0007 (not supplied) between the pipe and the firestop.



! WARNING

- Do not allow the inner flex pipe to bunch up on horizontal or vertical runs and elbows. Keep it pulled tight.
- Spacers are attached to the inner flex pipe at predetermined intervals to maintain an even air gap to the outer flex pipe. This gap is required for safe operation. A spacer is required at the start, middle, and end of each elbow to ensure this gap is maintained. These spacers must not be removed.

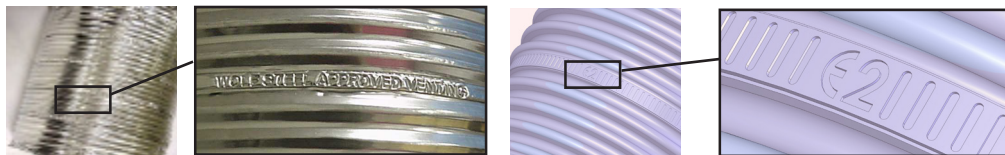


For safe and proper operation of the appliance, follow the venting instructions exactly.

The vent system must be supported approximately every 3 feet (0.9m) for both vertical and horizontal runs. Use Wolf Steel Ltd. support ring assembly or equivalent noncombustible strapping to maintain the minimum clearance to combustibles for both vertical and horizontal runs.

All inner flex pipe and outer flex pipe joints may be sealed using high temperature red RTV silicone W573-0002 (not supplied) or the high temperature sealant W573-0007 Mill Pac (not supplied). However, the high temperature sealant W573-0007 Mill Pac (not supplied) must be used on the joint connecting the inner flex pipe and the exhaust flue collar.

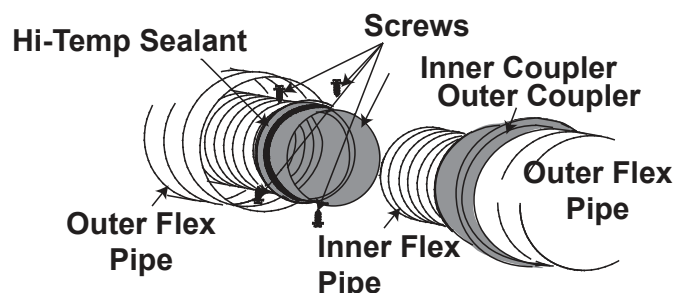
Use only approved flexible vent pipe kits marked:



“Wolf Steel Approved Venting” or “E2” as identified by the stamp only on the flex pipes.

1.6 adding vent length

If more vent pipe needs to be used to reach the fireplace, couple them together as illustrated. The vent system must be supported approximately every 3 feet for both vertical and horizontal runs. Use noncombustible strapping to maintain the minimum clearance to combustibles.

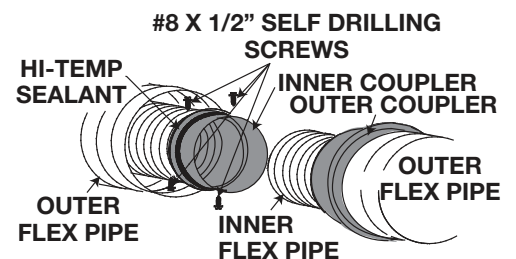
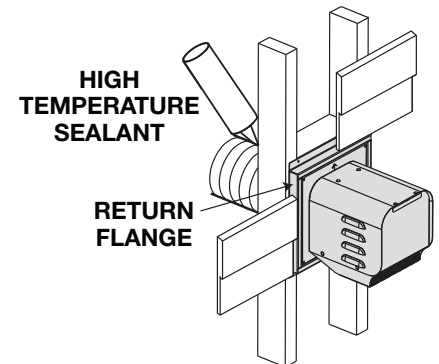
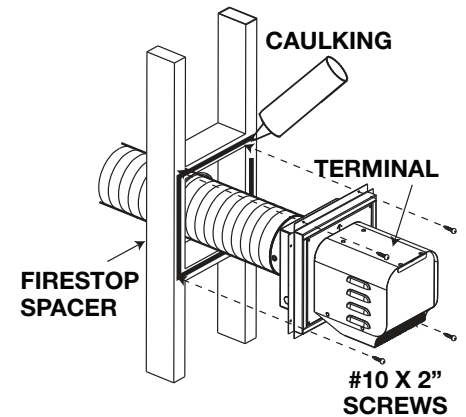


1.6.1 power vent installation

- A. Stretch the inner flex pipe to the required length taking into account the additional length needed for the finished wall surface. Slip the vent pipe a minimum of 3" (76.2mm) over the inner sleeve of the terminal and secure with a minimum of three #8 screws. Apply a heavy bead of Mill Pac sealant (W573-0007) (not supplied).
- B. Using the outer flex pipe, slide over the outer combustion air sleeve of the terminal and secure with a minimum of three #8 screws. Seal using Red RTV Silicone (W573-0002) (not supplied).
- C. Apply a bead of caulking (not supplied) to the framed opening and secure the terminal. Ensure the arrows stamped into the frame assembly are pointing upwards.

NOTE: For firestop spacer installation instructions, see PVA kit or the appliance Installation Manual.

- D. Route venting through framed opening and firestop spacer to the appliance.
- E. The terminal mounting plate may be recessed into the exterior wall or siding no greater than the depth of its return flange.
- F. If more vent pipe needs to be used to reach the appliance, couple them together as illustrated. The vent system must be supported approximately every 3 feet (0.9m) for both vertical and horizontal runs. Use noncombustible strapping to maintain the minimum clearance to combustibles.
- G. Install the reducer (if required) or vent to the appliance and properly secure and seal using Mill Pac sealant (W573-0007) (not supplied).



1.6.2 initial firing procedures

⚠ WARNING

- Always light the pilot whether for the first time or if the gas supply has run out with the glass door opened or removed. Purge should be performed by a qualified service technician. Assure that a continuous gas flow is at the burner before closing the door. Ensure adequate ventilation.

In some instances the system may not light pilot/burner with the door open/removed. Partially blocking the exhaust flue collar will allow the safety pressure switch to activate and allow gas flow to the pilot during the initial test firing.

1.6.3 electrical connection

⚠ WARNING

- Do not use this appliance if any part has been under water. Call a qualified service technician immediately to have the appliance inspected for damage to the electrical circuit.
- Risk of electrical shock or explosion. Do not wire 110V to the valve or to the appliance wall switch. Incorrect wiring will damage controls.
- All wiring should be done by a qualified electrician and shall be in compliance with local codes. In the absence of local codes, use the current CSA22.1 Canadian Electric Code in Canada or the current National Electric Code ANSI/NFPA NO. 70 in the United States.

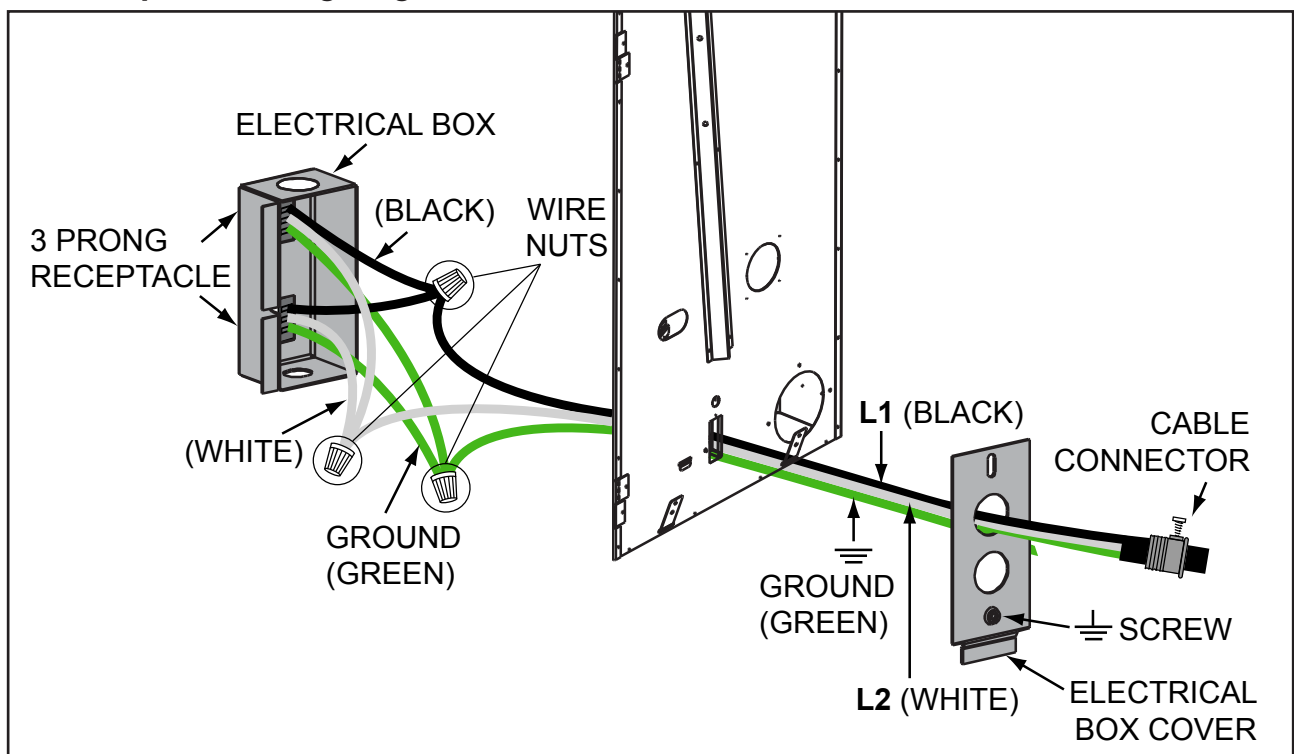
1.6.4 hard wiring connection

It is necessary to hard wire this appliance.

Permanently framing the appliance with an enclosure, requires the appliance junction box to be hard wired.

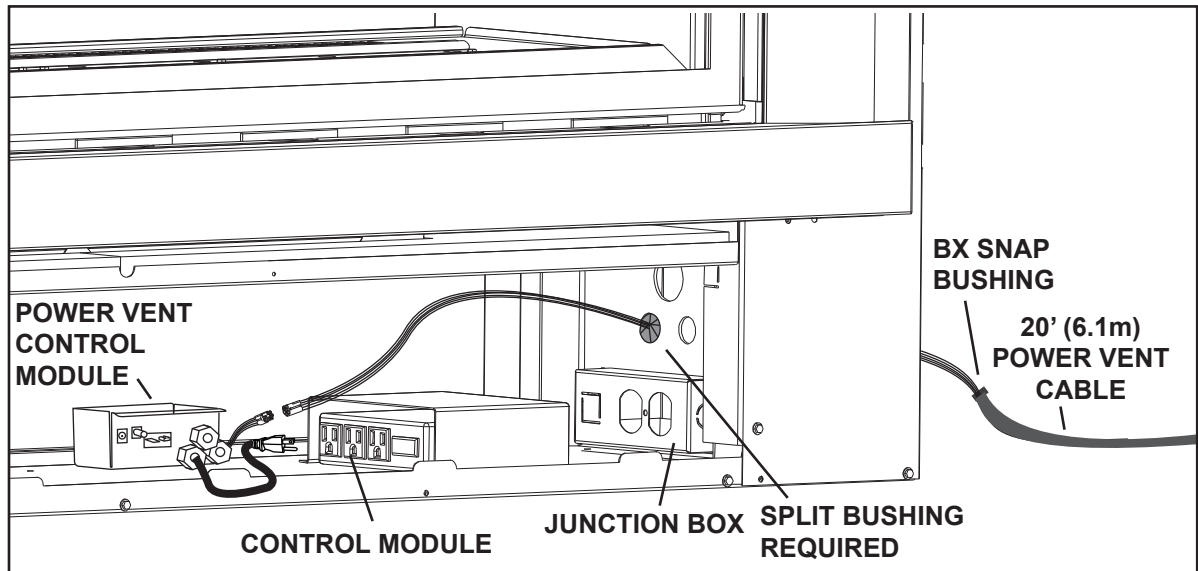
This appliance must be electrically connected and grounded in accordance with local codes. In the absence of local codes, use the current CSA C22.1 Canadian electrical code in Canada or the ANSI/NFPA 70-1996 national electrical code in the United States.

1.6.5 receptacle wiring diagram



1.6.6 electrical box installation

NOTE: Before finishing in the appliance, the power vent must be installed.



- A. Start by removing the pre-finishing access panel or opening lower louvre.
- B. Position the Power Vent Control Module in a convenient location (not on top of the heat shield in the LHD50) and Velcro it to the base of the appliance.
- C. Slide the 20' (6.1m) power vent cable through the right side of the appliance and connect the box connector to the side panel, see "installation overview" section for illustration.
- D. Feed the wires through the inside panel, slide the split bushing over the coated wires and snap into the 7/8" (22.2mm) hole to protect the wires as illustrated. Attach the connections as per the appropriate wiring diagram. See "wiring diagram and installation" section.
- E. Plug the power vent control module into either the appliance junction box or the control module, if equipped.

1.7 restrictor plate installation

REFER TO PVA KIT FOR APPLIANCE SPECIFIC INSTRUCTIONS.

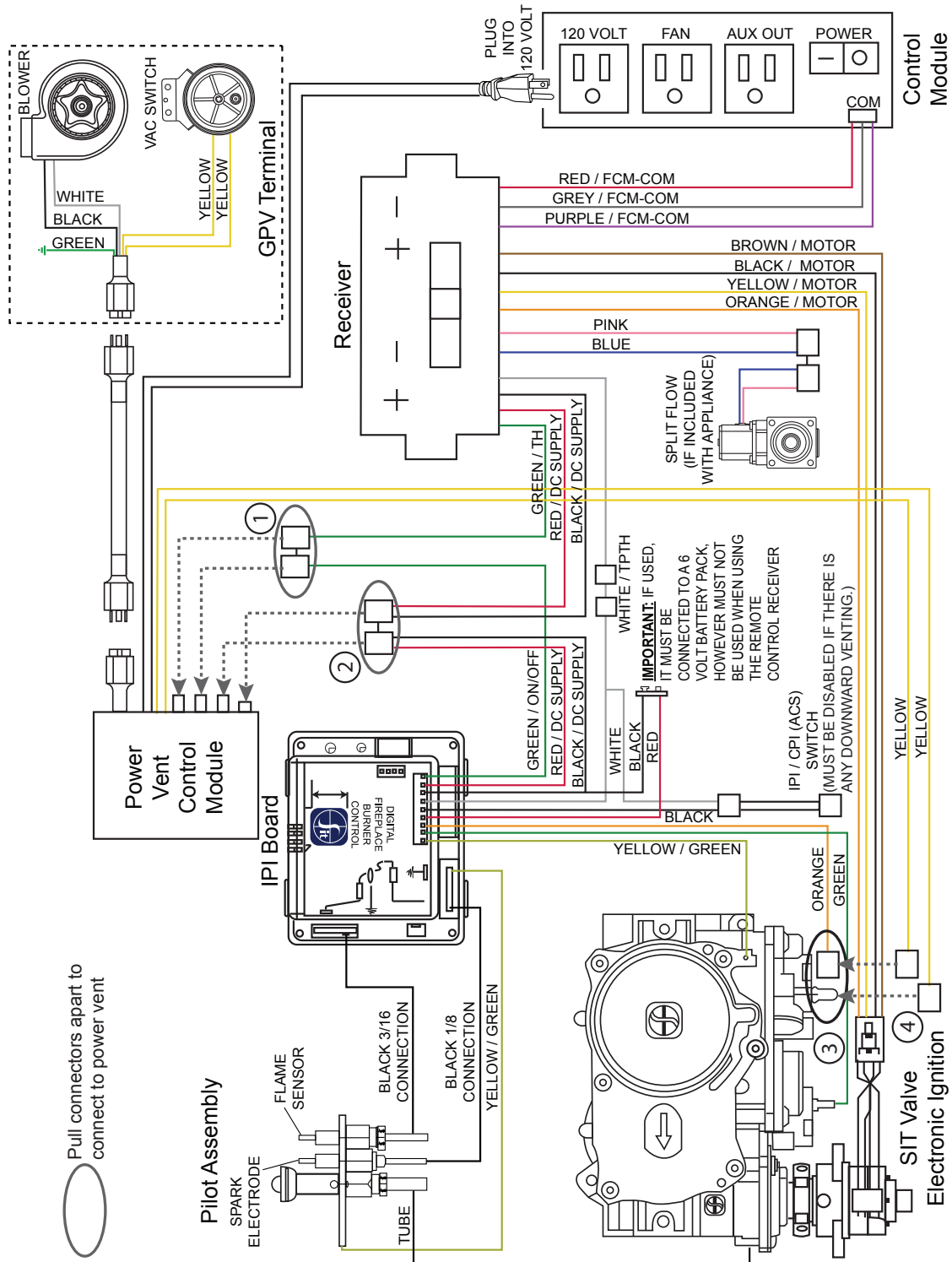
1.8 wiring diagram and installation

Connect the wiring to the power vent termination as outlined in the previous section, and connect the wiring to the appliance as outlined in the schematic below. Ensure that the proper clearances are maintained for the wiring and conduit. When installing the wiring it must never run above the vent run and it must be a minimum 1" (25.4mm) from all venting.

NOTE: The GPV includes a 20 foot (6.1m) wire harness. If this harness does not reach the appliance, then it may be cut and a splice added. These connections must conform with local codes or, in the absence of local codes, use the current CSA C22.1 Canadian Electrical Code in Canada or the ANSI/NFPA 70 National Electrical Code in the United States.

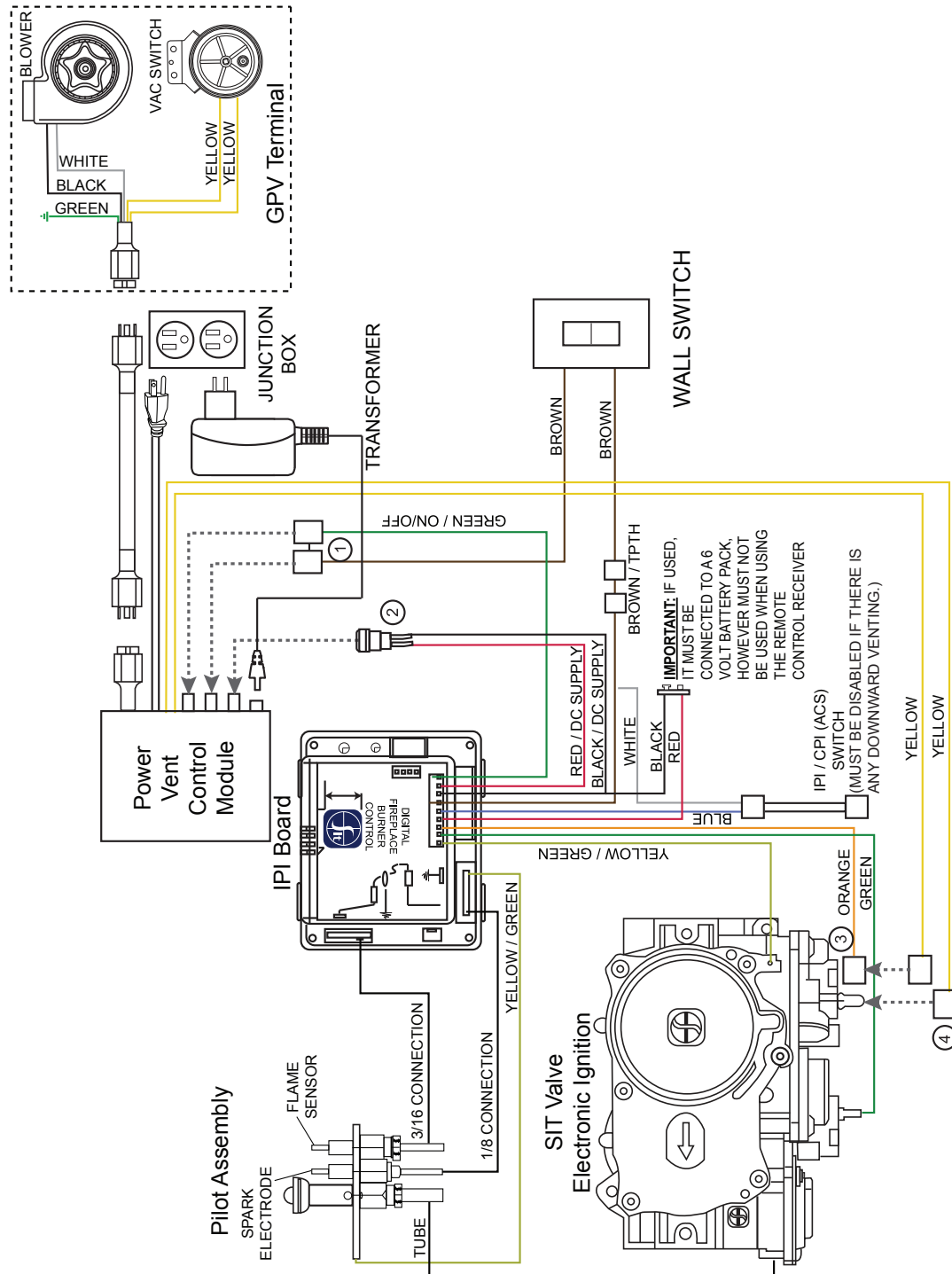
1.8.1 SIT IPI 885 Proflame 1 equipped with a remote control

1. Disconnect the wires labeled ON/OFF (White/Green) and TH (Green). Reconnect them to the corresponding male/female connectors on the Power vent control module.
2. Disconnect the two D/C (Red/Black) wires from each other and reconnect them to the corresponding D/C connectors on the Power vent control module.
3. Disconnect the Orange wire from the gas valve and reconnect it to the Yellow wire (female connector) from the Power vent control module.
4. Connect the remaining Yellow wire (male connector) from the Power vent control module to the tab on the gas valve where the Orange wire was removed.



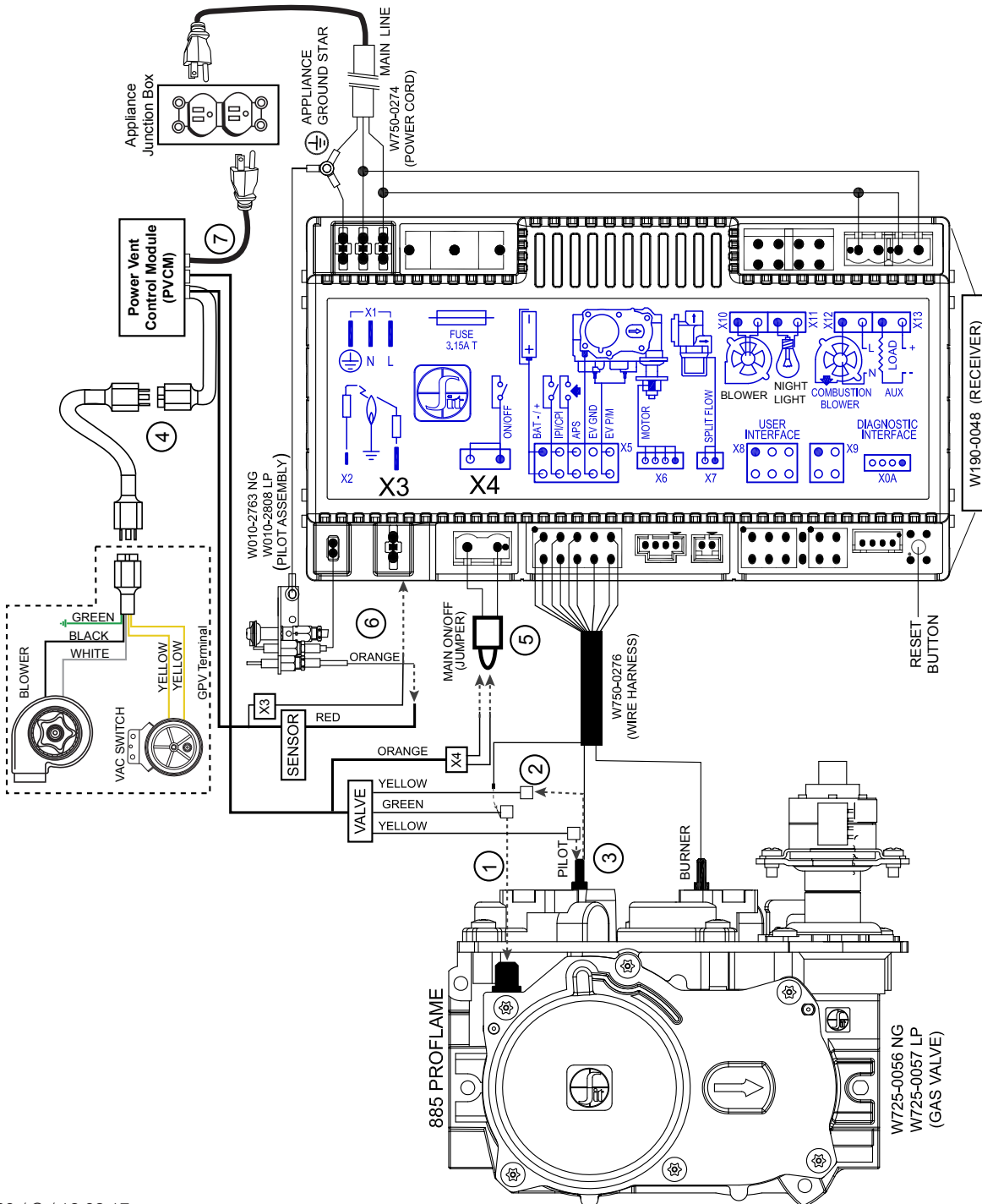
1.8.2 SIT IPI 885 Proflame 1 not equipped with a remote control

1. Disconnect the wires labeled ON/OFF (Green) from the switch wire (Brown). Reconnect them to the corresponding male/female connectors on the Power vent control module.
2. Disconnect the two D/C (Red/Black) wires from each other and reconnect them to the corresponding D/C connectors on the Power vent control module.
3. Disconnect the Orange wire from the gas valve and reconnect it to the Yellow wire (female connector) from the Power vent control module.
4. Connect the remaining Yellow wire (male connector) from the Power vent control module to the tab on the gas valve where the Orange wire was removed.
5. Plug in the transformer and the Power vent control module.



1.8.3 SIT IPI Proflame 2 control system

1. Disconnect the (yellow/green) ground wire from the valve and connect it to the (green) ground wire, with piggy back connector, from the PVCM and then reconnect to the valve.
2. Disconnect the (orange) wire from the valve and connect it to the (yellow) wire, with male end, from the PVCM.
3. Connect the other (yellow) wire from the PVCM to the valve.
4. Connect the wire harness from the GPV terminal to the harness from the PVCM.
5. Disconnect the MAIN ON/OFF (JUMPER) from "X4" and discard. Connect the (orange) wire from the PVCM to the "X4" location on the receiver.
6. Disconnect the (orange) sensor wire from "X3" of the receiver and connect it to the (red) sensor wire from the PVCM. Connect the (red) lead from the PVCM to "X3" of the receiver. Ensure all connections are tight.
7. Plug in the power cord from the PVCM.

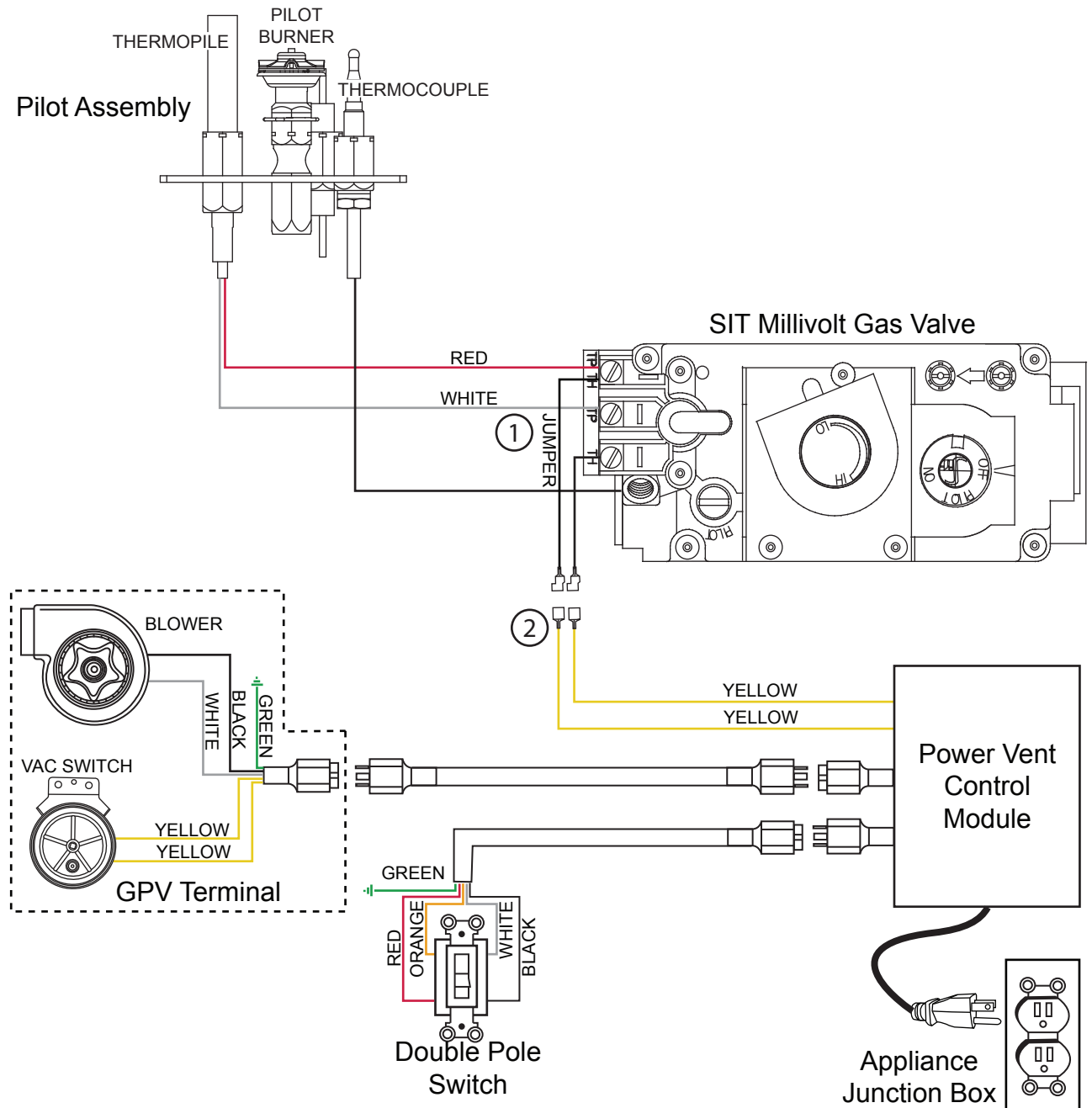


1.8.4 SIT millivolt 820

NOTE: Must use double pole switch (supplied) with specific power vent adaptor kit.

NOTE: Downward venting is not allowed with appliances that use a standing pilot.

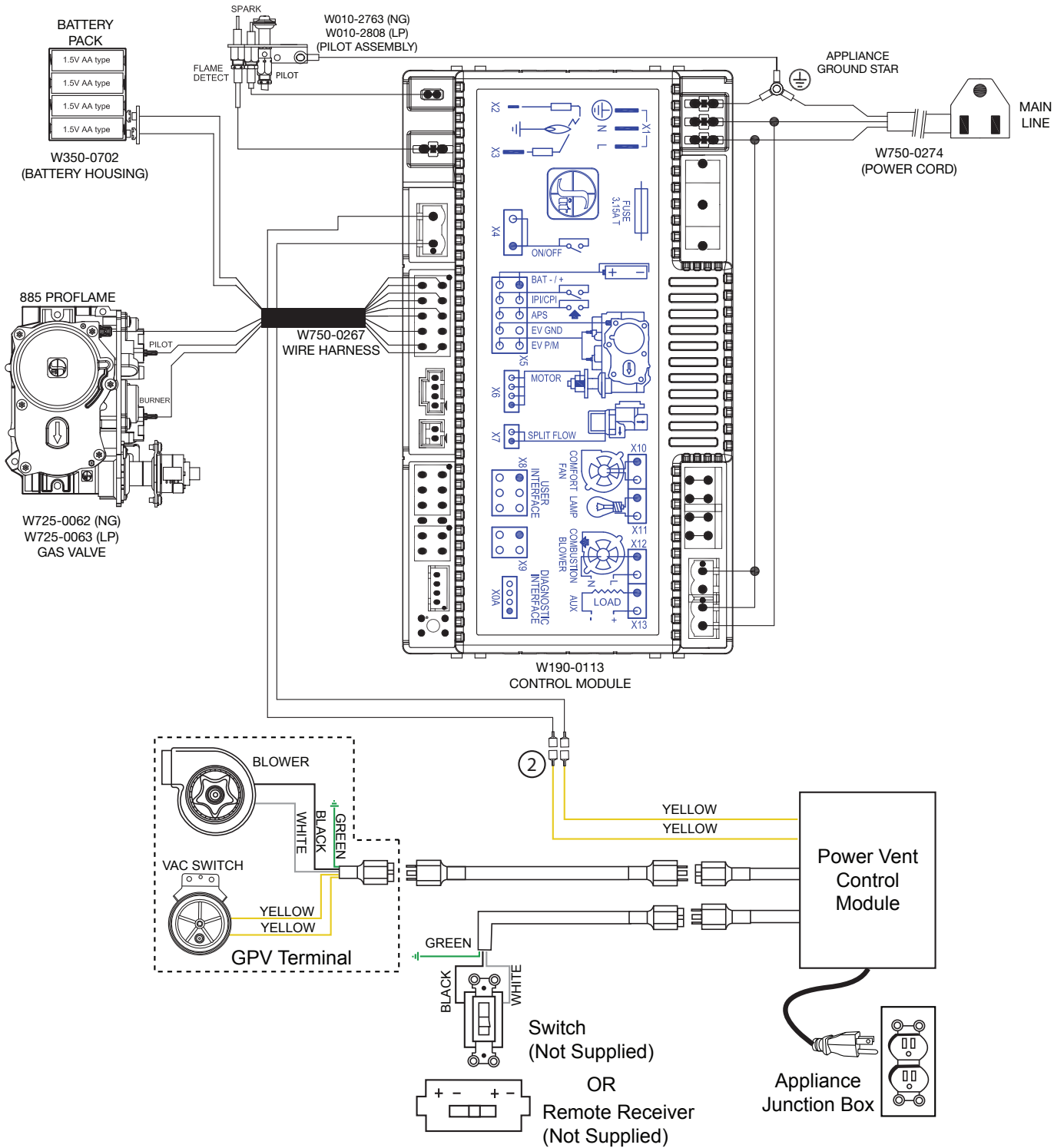
1. Connect the jumper wires to tabs TP/TH and TH on the gas valve.
2. Connect the jumper wire to the two Yellow wires from the Power vent control module.



IMPORTANT: A RECEPTACLE MAY NEED TO BE INSTALLED AS A POWER SOURCE FOR THE GPV.

1.8.5 SIT IPI Proflame 2 for single pole switch

NOTE: Downward venting is not allowed with appliances that use standing pilots.

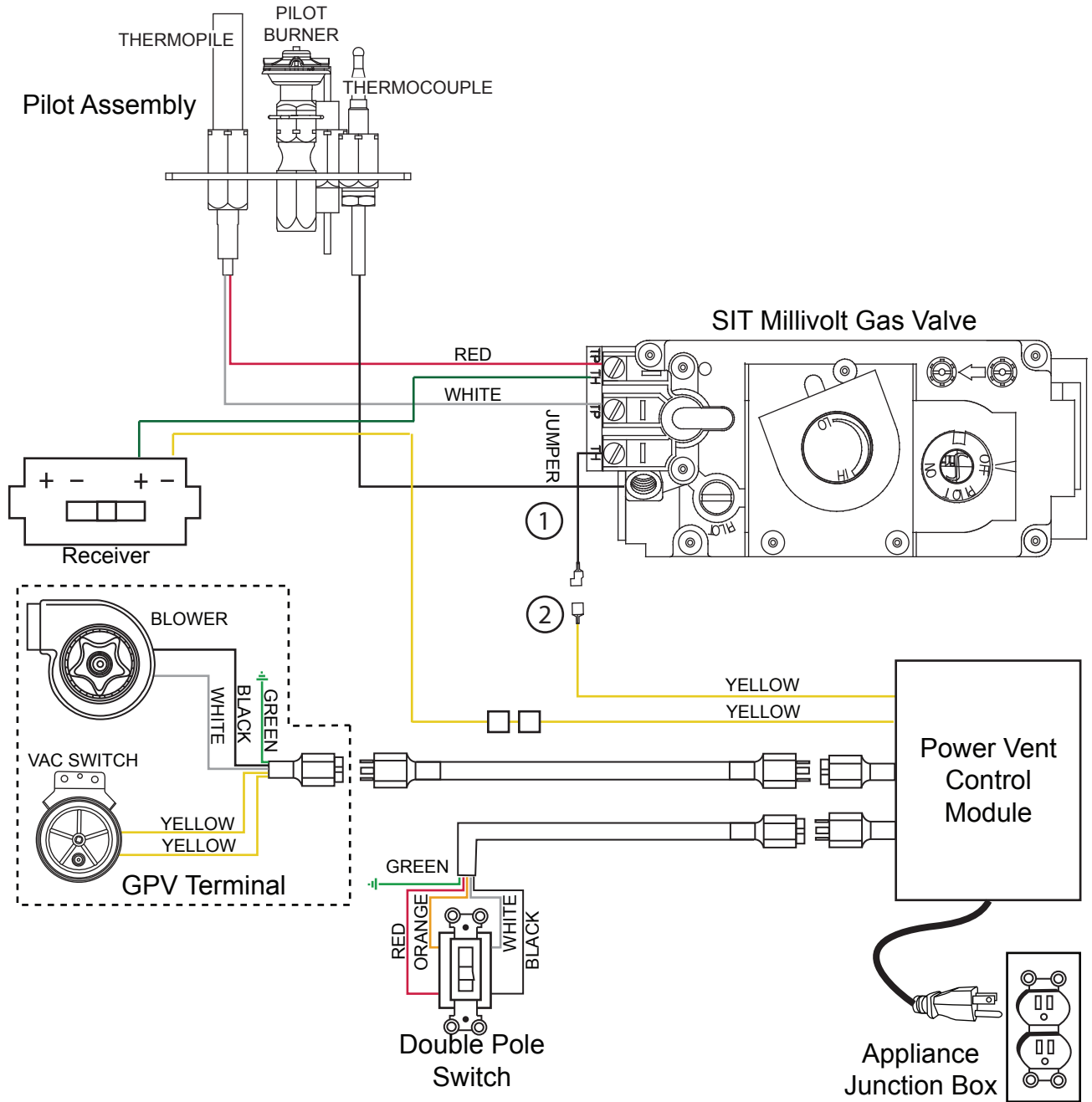


1. Connect the two yellow wires from the PVC to the wires coming off the 'X4' MAIN ON/OFF (jumper).

1.8.6 SIT millivolt 820 Nova and equipped with optional remote control

NOTE: Must use double pole switch (supplied) with specific power vent adaptor kits.

NOTE: Downward venting is not allowed with appliances that use standing pilots.

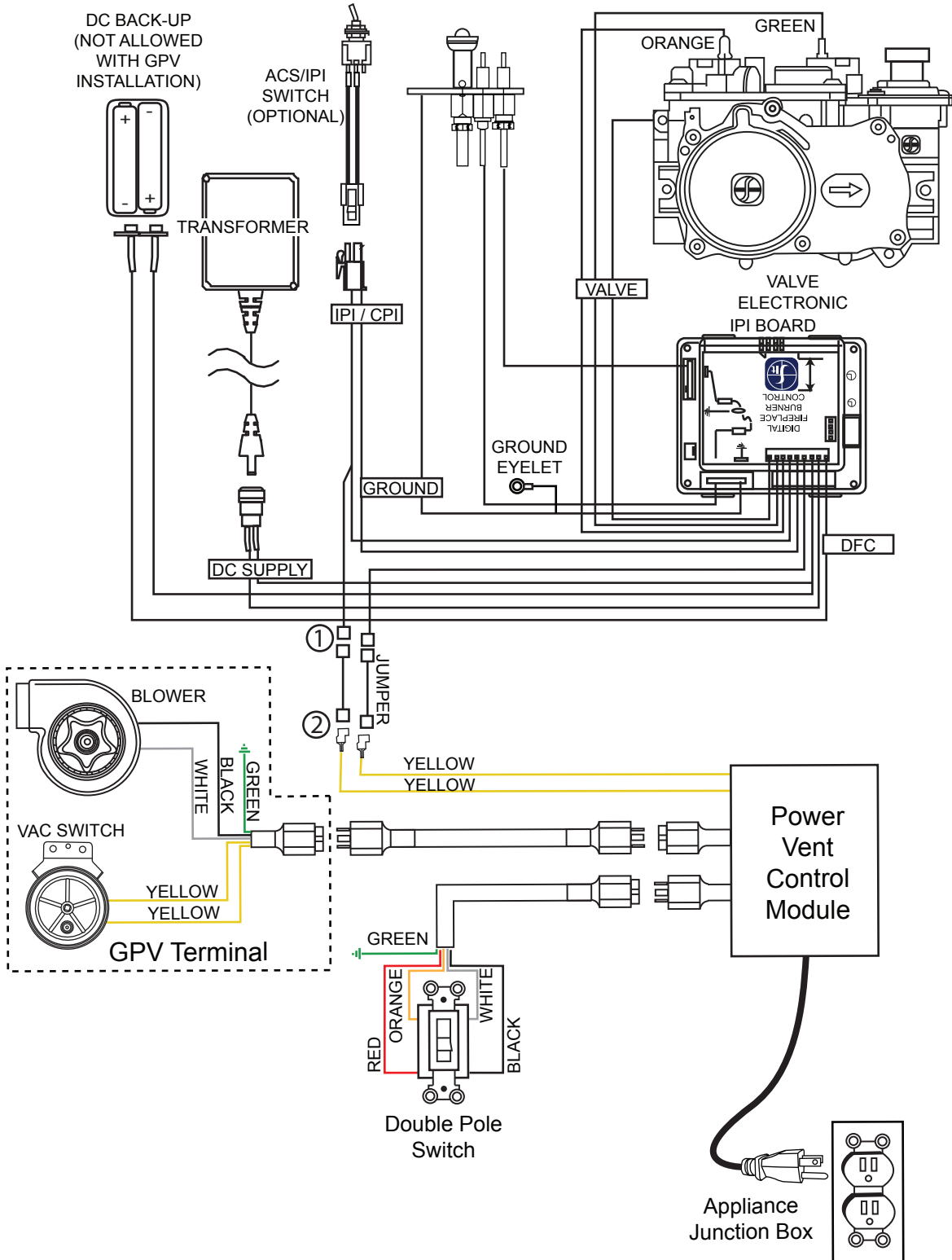


1. Disconnect one of the two wires from the receiver to the valve. Connect it to one of the yellow wires from the power vent control module.
2. Connect a jumper wire to the valve where the receiver wire was disconnected and to the other yellow wire from the power vent control module.

1.8.7 SIT IPI 880/886 Proflame

NOTE: Must use double pole switch (supplied) with specific power vent adaptor kit.

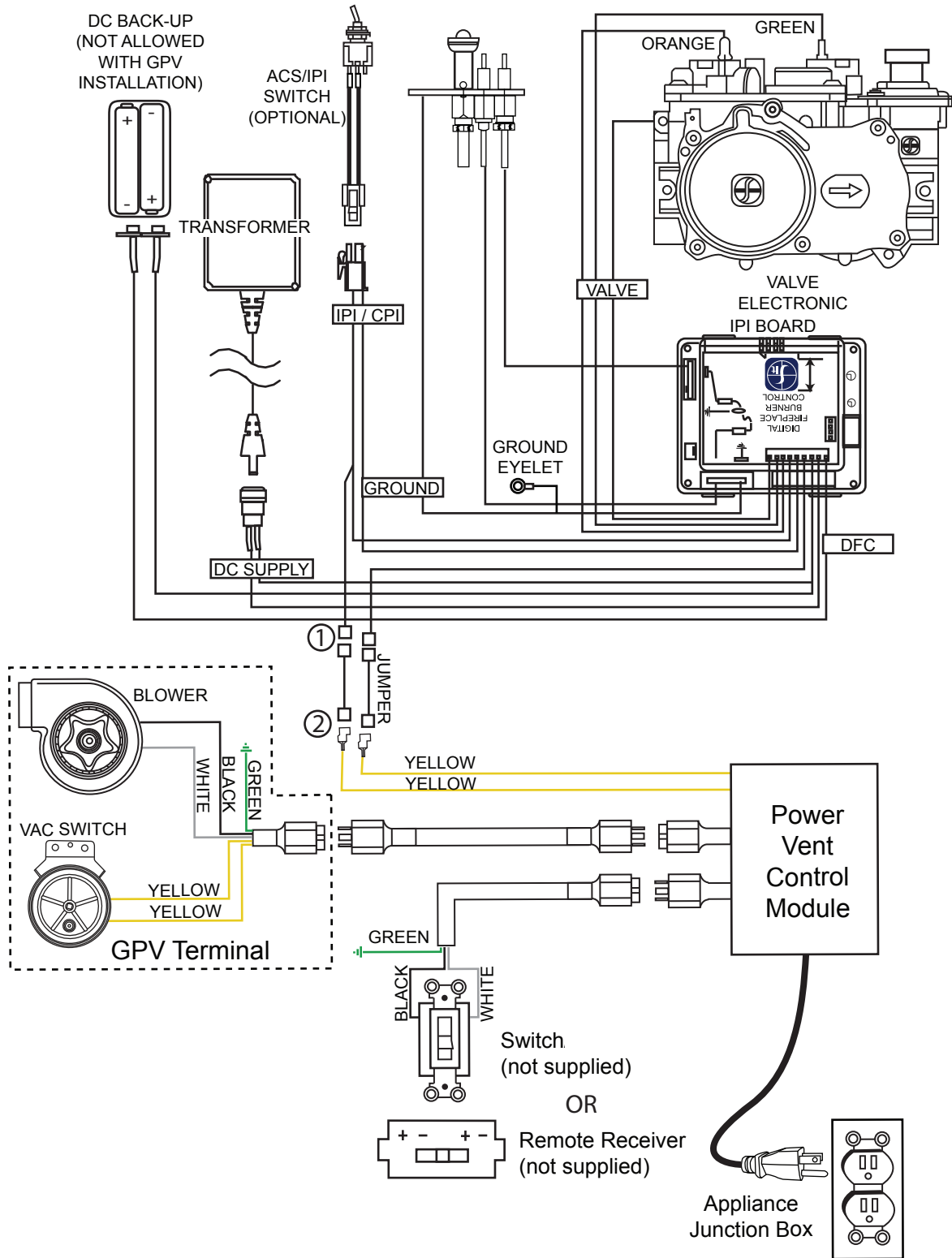
1. Connect the jumper wires to the wire labeled ON/OFF (Green/White) and the wire labelled TH (Green).
2. Connect the other end of the jumper wires to the Yellow wires from the Power vent control module.



IMPORTANT: A receptacle may need to be installed as a power source for the GPV.

1.8.8 SIT IPI 880/886 for single pole switch or optional remote control

1. Connect the jumper wires to the wire labeled ON/OFF (Green/White) and the wire labelled TH (Green).
2. Connect the other end of the jumper wires to the Yellow wires from the Power vent control module.



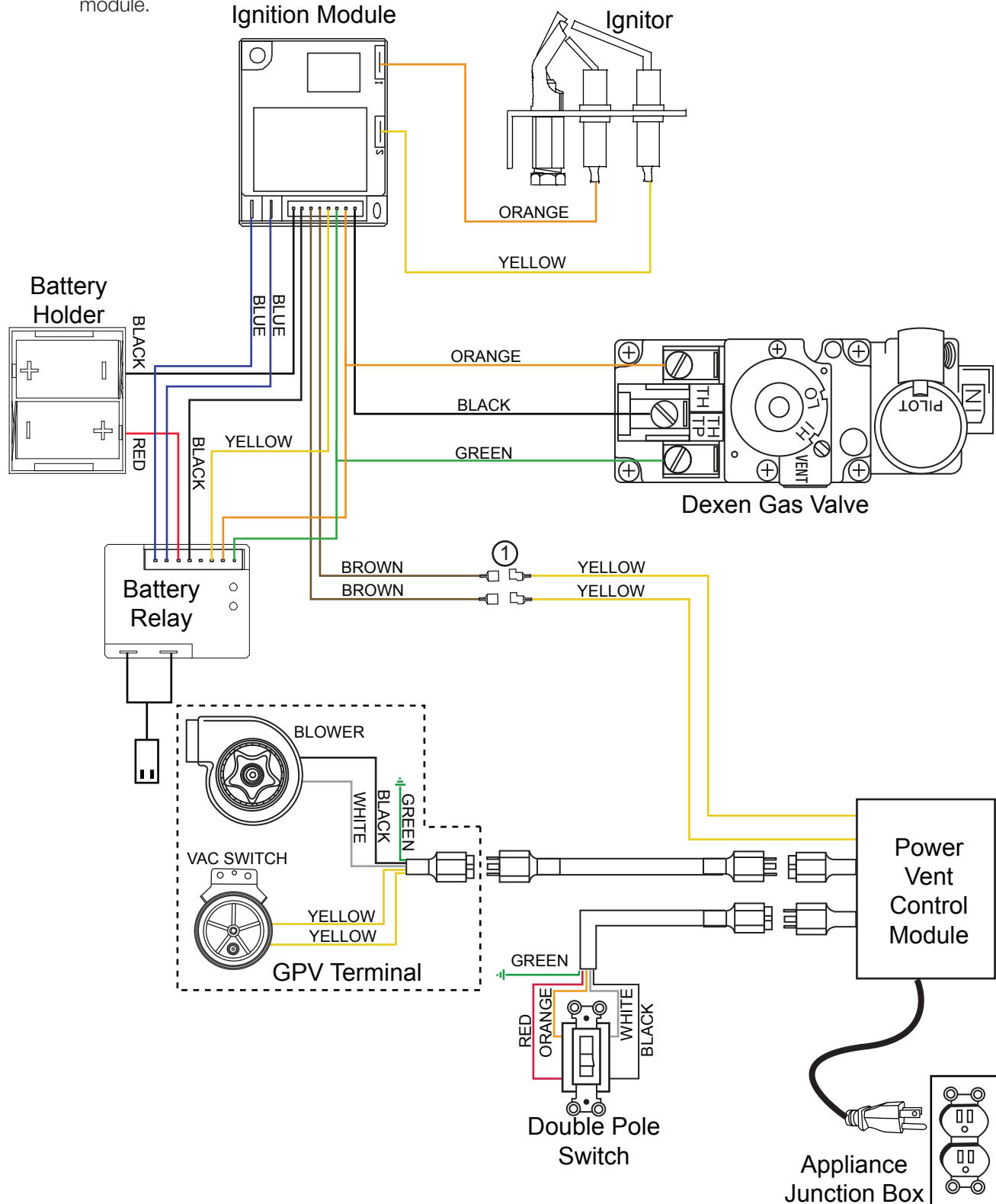
IMPORTANT: A receptacle may need to be installed as a power source for the GPV.

1.8.9 dexen IPI 6003-3V

NOTE: Must use double pole switch (supplied) with specific power vent adaptor kit.

NOTE: Downward venting is not allowed with appliances that use a standing pilot.

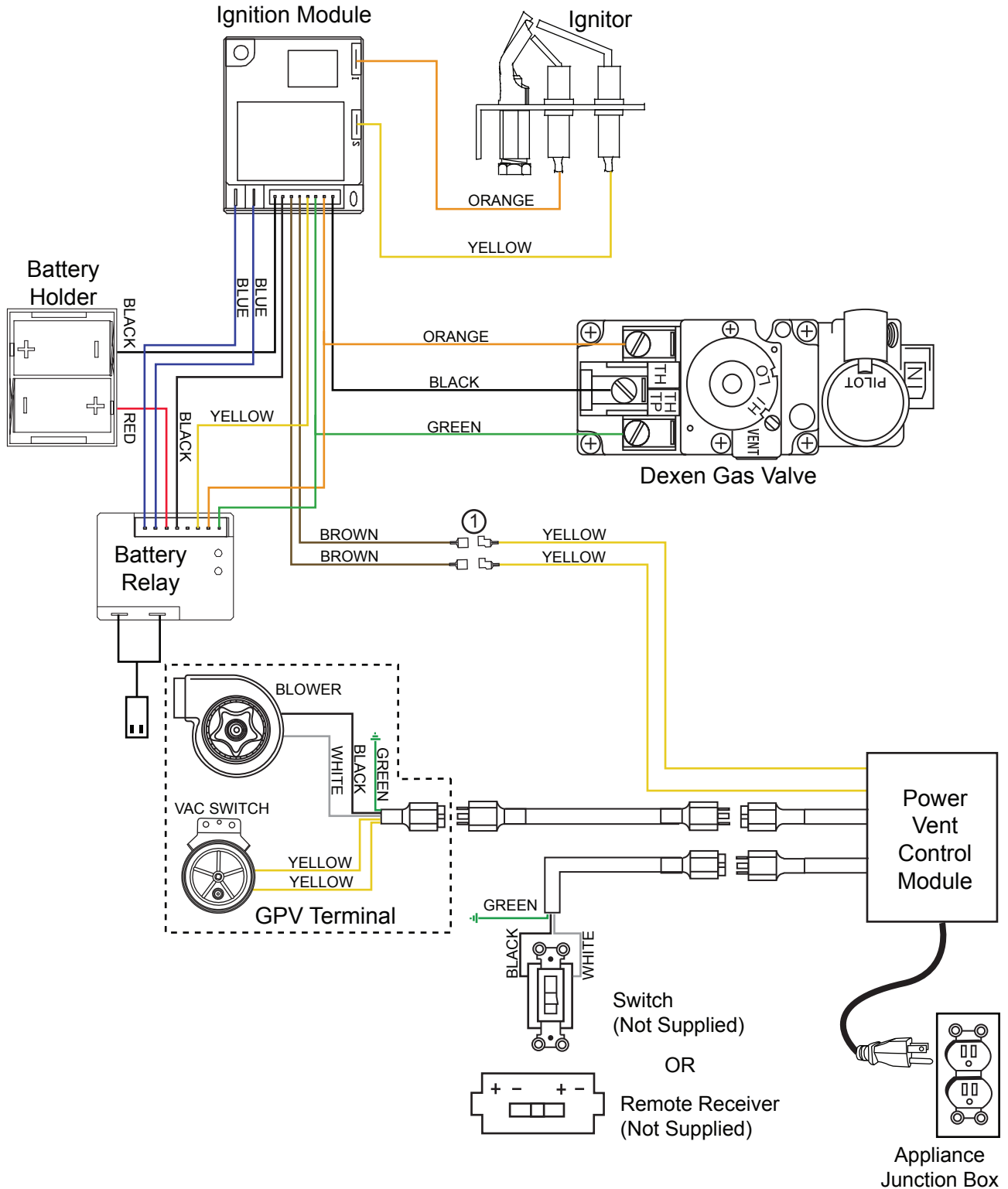
1. Connect the Brown wires from the Ignition module to the yellow wires from the Power vent control module.



1.8.10 dexen IPI 6003-3V requiring a single pole switch or optional remote control

NOTE: Downward venting is not allowed with appliances that use a standing pilot.

1. Connect the Brown wires from the Ignition module to the yellow wires from the Power vent control module.



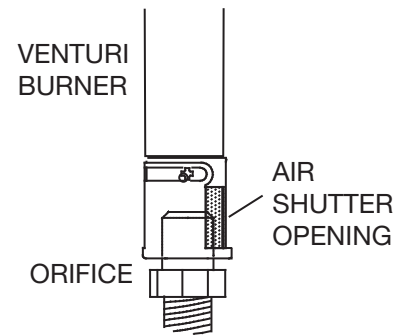
2.0 adjustments

2.1 venturi adjustments

This appliance has an air shutter that has been factory set open according to the chart below:

Regardless of venturi orientation, closing the air shutter will cause a more yellow flame, but can lead to carbonization. Opening the air shutter will cause a more blue flame, but can cause flame lifting from the burner ports. The flame may not appear yellow immediately; allow 15 to 30 minutes for the final flame colour to be established.

AIR SHUTTER ADJUSTMENT MUST ONLY BE DONE BY A QUALIFIED INSTALLER!



note:

Refer to your manual for the proper air shutter setting.

3.0 replacements

! WARNING

- Failure to position the parts in accordance with this manual or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

Contact your dealer for questions concerning prices and policies on replacement parts. Normally, all parts can be ordered through your Authorized dealer / distributor.

For warranty replacement parts, a photocopy of the original invoice will be required to honour the claim.

When ordering replacement parts always give the following information:

- Model & Serial Number of appliance
- Installation date of appliance
- Part number
- Description of part
- Finish

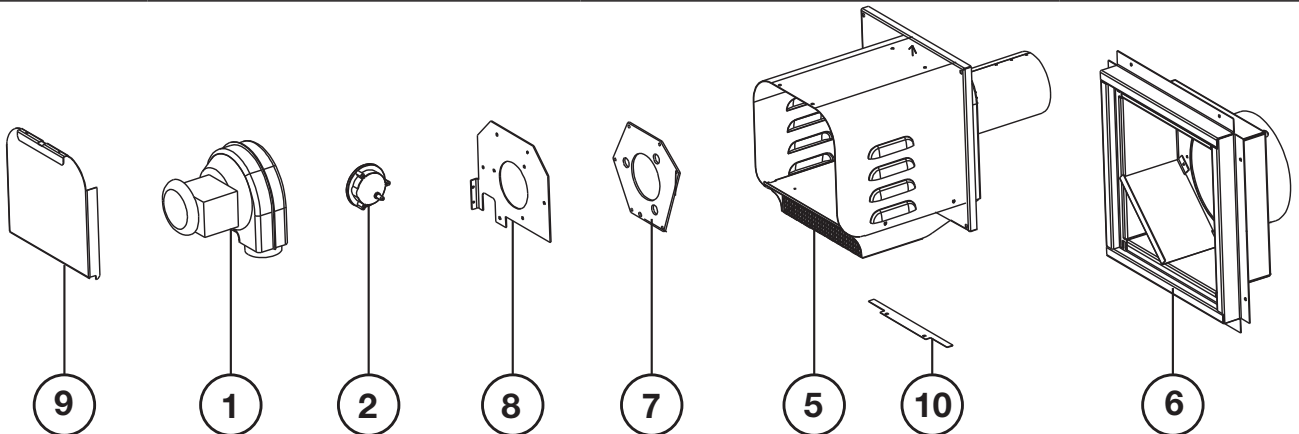
Parts, part numbers, and availability are subject to change without notice.

Parts identified as stocked will be delivered within 2 to 5 business days for most delivery destinations.

Parts not identified as stocked will be delivered within a 2 to 4 week period, for most cases.

Parts identified as 'SO' are special order and can take up to 90 days for delivery

Ref.	Description	Part Number	Stocked
1	Blower	W062-0026	
2	Switch, vacuum	W660-0056	Yes
3*	Wire harness, terminal	W750-0195	
4*	20' (9.1m) wire harness cable	W750-0209	
5	Pewter main body	W010-1924PW	
6	Pewter frame	W010-1925PW	Yes
7	Blower Gasket	W290-0138	
8	Blower mounting plate	W500-0716	
9	Pewter access cover	W200-0256PW	
10	Dilution air plate	W500-0419	
11*	Hose	W345-0003	



4.0 troubleshooting

WARNING

- Always light the pilot whether for the first time or if the gas supply has run out, with the glass door open or removed.
- In some instances the system may not light pilot/burner with the door open/removed. Partially blocking the exhaust flue collar will allow the safety pressure switch to activate and allow gas flow to the pilot during the initial test firing.

SYMPTOM	PROBLEM	TEST SOLUTION
Main burner flame is a blue lazy transparent flame.	Leak in exhaust vent.	- Check exhaust vent pipe and all connection seals.
	Incorrect installation.	- Refer to PVA kit for appliance specific restrictor.
Carbon is being deposited on glass or combustion chamber surfaces.	Air shutter has become blocked or incorrect setting.	- Ensure air shutter opening is free of lint or other obstructions or has correct setting.
	Flame is impinging on the logs or combustion chamber.	- Check that the media is correctly positioned. - Open air shutter to increase the primary air. - Check the input rate: Check the manifold pressure and orifice size as specified by the rating plate values. - Check that the door gasket is not broken or missing and that the seal is tight. - Check that both 4" (101.6mm) and 7" (177.8mm) vent liners are free of holes and well sealed at all joints. - Check that the proper restrictor is used
White / Grey film forms.	Sulphur from fuel is being deposited on glass, logs or combustion chamber surfaces.	- Clean the glass with a gas appliance glass cleaner. DO NOT CLEAN GLASS WHEN HOT. - If deposits are not cleaned off regularly, the glass may become permanently marked.
Exhaust fumes smelled in room, headaches.	Appliance is spilling.	- Check door seal and relief flap seal. - Check that the paint curing process is complete.
Main burner will not light.	Main door is not installed.	- Install main door.
Main burner flames are very aggressive.	No restrictor.	- Add restrictor. - Remove dilution air restrictor plate on the power vent.
Main burner won't light.	Vacuum switch not activated.	- Remove blockage. In really cold conditions, ice buildup may occur on the terminal and should be removed as required. - Test vacuum switch and replace as required.

IMPORTANT: Prove all systems check before completely enclosing appliance.

5.0 service history

Appliance Service History <small>This appliance must be serviced annually depending on usage</small>				
Date	Dealer Name	Service Technician Name	Service Performed	Special Concerns

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