XV-IGN-PFAK

Proflame Automation Kit
for SIT Proflame 2 appliances
Installation, Operation and Maintenance



On its own, a SIT Proflame 2 appliance runs only from its Proflame remote. XV-IGN-PFAK puts it on **home automation**, a hearth remote receiver or a wall switch, with an X-VENTISO gas controller. It is an inline accessory: a power supply and relays between the controller and the Proflame 2 board. It closes X4 and X5 **only after the controller proves**.

Controller	Works with
XV-GBC, XV-GBC-DUO	Yes: the ignition cable from the wall control (MUC)
XV-MERD-CTRL, XV-MERD-DUO	Yes: the controller's ignition lead
XV-GFDC	Yes: the controller's ignition lead
XV-INTG systems	Yes: the ignition lead from IGNITION on the first XV-INTG

Sold separately. Gas appliances only.

1 Read First

Read this insert and the controller's installation manual (XV-IM-CP, XV-IM-CP-DUO, XV-IM-MERD or XV-IM-DMP-CTRL) before installing, and leave them with the homeowner or building owner. Installation and service are for qualified personnel familiar with the codes that apply to the job.

DANGER: Unplug the appliance, the X-VENTISO controller and the XV-IGN-PFAK, and lock out power, before working at the Proflame 2 board. Shut off the gas supply per the appliance manual.

WARNING: Remove the original ON/OFF switch from X4. Left on X4, a switch would light the appliance without proven draft. Never bypass, jumper or defeat the controller's draft proving or the PFAK's relays.

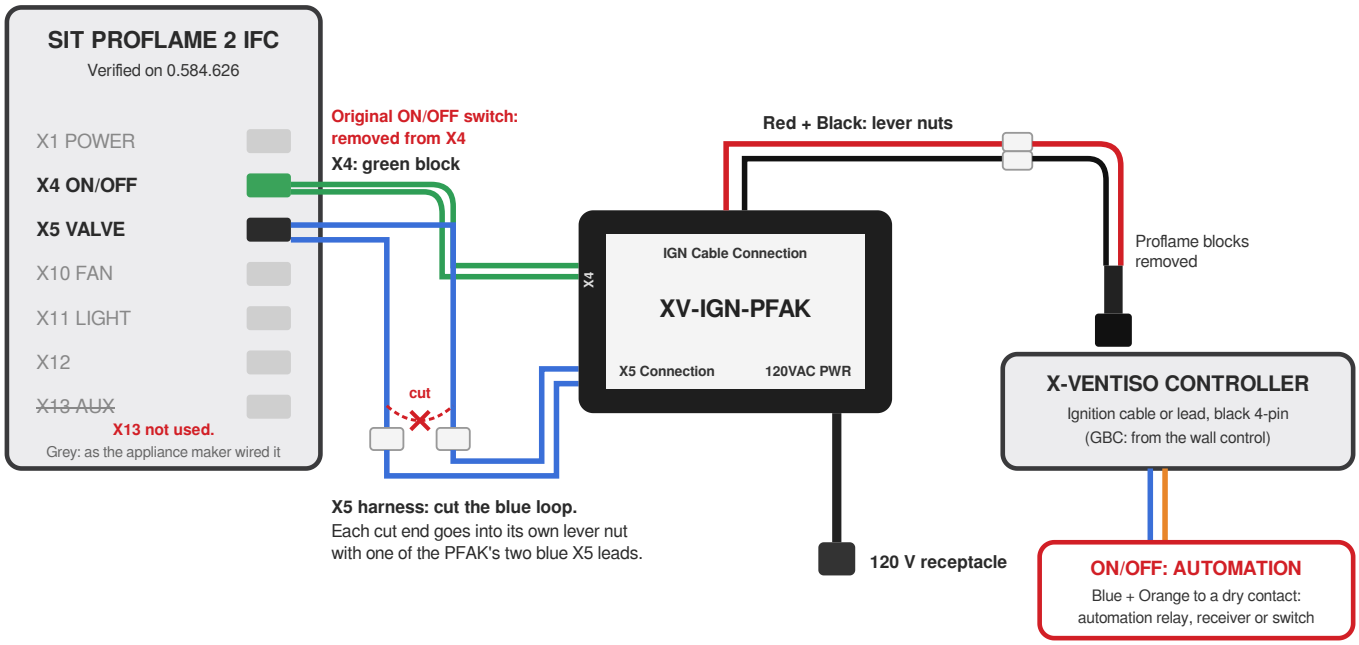
NEVER PUT VOLTAGE ON BLUE + ORANGE.

Blue + Orange carry low voltage from the X-VENTISO controller. Close them with a dry contact only: an automation relay, a remote receiver contact or a switch. Never connect 120 V, 24 VAC or a remote's battery power to them.

CAUTION: For SIT Proflame 2 IFC boards. Wiring verified on IFC 0.584.626; any other board, call 800.642.2920 first. Always check against the appliance maker's wiring diagram; the appliance instructions govern. X13 (AUX) is not used.

2 How It Works

The controller's Red + Black (the proven draft relay; on the GFDC, the damper proven relay) land in the PFAK. Only when that relay closes does the PFAK close X4 (ON/OFF) and X5 (VALVE) on the Proflame 2 board, so the appliance can light only after the controller proves. Blue + Orange are freed for the on/off control.



XV-IGN-PFAK wiring. Schematic: board terminal order and lead routing are illustrative.

3 Install

1. **Remove the Proflame blocks** from the controller's ignition cable or lead: green on Red/Black, black on Blue/Orange. Loosen each screw with a small flathead and pull the wire out. The ends are already stripped.
2. **X4:** remove the original ON/OFF switch from X4. Plug the PFAK's green X4 block onto X4.
3. **X5:** cut the blue wire loop on the X5 harness. Strip both ends and land one in each blue lever nut on the PFAK's X5 leads.
4. **Ignition:** land the controller cable's Red and Black in the PFAK's red and black lever nuts.
5. **On/off:** connect Blue + Orange to the automation relay, remote receiver contact or switch (controller manual, Appendix B). Dry contact only.
6. Mount the PFAK on a dry surface within reach of the board (8 ft leads), leads unstrained. Plug its 6 ft power cord into a 120 V receptacle.

4 Put It on Automation

This kit exists to put a Proflame 2 fireplace on automation. Blue + Orange take any dry contact, so the fireplace can run from Lutron, Crestron, Control4, Savant or any platform that can close a contact: scenes, schedules, voice and app control. A hearth remote receiver or a wall switch also works. Automation turns the system on and off; it never fires the appliance. Draft proving and the interlock stay with the X-VENTISO controller and the PFAK.

5 Start-Up Check

Start up and commission the controller per its manual first. Then:

1. **Controller unplugged, PFAK plugged in:** turn the on/off control on. The appliance must **not** light. If it lights, stop: shut off the gas and check that the original switch is off X4.
2. **Everything on:** turn the on/off control on. The draft inducer (or damper) starts first; the appliance lights only after the controller proves.
3. **Interlock:** with the appliance running, unplug the draft inducer at its disconnect (GFDC: the damper). The controller alarms and the appliance shuts down. Restore it.
4. **Off:** turn the on/off control off. The appliance shuts down and the system purges per the controller manual.
5. Record the check in the controller manual's commissioning record.

6 Troubleshooting

Symptom	Check
Appliance lights without proven draft, or with the controller unplugged	• **Shut off the gas and call 800.642.2920.** The original switch may still be on X4
Appliance never lights; the controller shows proven	• PFAK plugged into 120 V • Green X4 block fully seated; X5 blue ends fully in their lever nuts • Red and Black fully in their lever nuts
X-VENTISO system never starts	• Blue + Orange connected to the on/off control, and the control is on • GBC: wall control slider above OFF • Controller cable's black 4-pin latched
Automation scene runs, nothing happens	• The automation output must be a dry contact (relay), not a powered output • Check the contact closes at Blue + Orange

7 Annual Inspection

Inspect at the controller's annual inspection, with power and gas off. Green X4 block seated; every lever nut closed with its wire fully in; no damaged insulation; leads clear of hot surfaces; cord and cable glands intact. Repeat the start-up check (Section 5, step 1). A damaged PFAK is replaced, not repaired: call 800.642.2920.

8 Specifications

Item	Specification
Part number	XV-IGN-PFAK
Appliance board	SIT Proflame 2 IFC (wiring verified on 0.584.626)
Use with	XV-GBC, XV-GBC-DUO, XV-MERD-CTRL, XV-MERD-DUO, XV-GFDC; XV-INTG systems at the first unit's ignition lead. Gas appliances only.
Type	Inline accessory: power supply and relays. Closes X4 and X5 only when the controller's proven relay is closed.
Connections (factory)	IGN cable: red and black lever nuts. X4: green terminal block. X5: two blue leads with lever nuts. Power: plug-in cord.
Power	120 VAC, 60 Hz; 6 ft plug-in cord
Lead lengths	8 ft, every lead (X4, X5 and IGN)
Enclosure	5 x 4 x 2 in. (127 x 102 x 51 mm), W x H x D. NEMA 1 (indoor).
Warranty	2 years, valid with proper installation and a documented annual inspection of the system. Skipping the inspection voids the warranty.

Installation record

Installed by		**Date**	
Controller (model, serial)		**Board (IFC part no.)**	
On/off control (platform)		**Start-up check passed**	YES / NO

X-VENTISO by earthcore

Leave this insert with the homeowner or building owner, with the controller manual.

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