

Replacement Pressure Switch Kit, P/N 93033
Applies to Model RPV Series 3 and 5 and to Model Series RP
manufactured prior to 12/91

**Description/
 Application**

Model RPV Series 3 and 5 – This kit is designed to replace the originally installed sail switch with a pressure activated switch. The function of both switches is to prove combustion air.

Model RP Manufactured prior to 12/91 (Serial No. Date Code AQL) - If a replacement pressure switch is required, this kit provides a new smaller switch, a sensor, and easier-to-install flexible tubing.

WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury, or death. Read the installation, operation, and maintenance instructions thoroughly before installing or servicing this equipment.

	Code	Qty	P/N	Description
<p>Components of Kit P/N 93033</p>	1	1	93034	Wire Assembly
	2	1	204327	Pressure Switch .58"
	3	2	11813	No. 10 x 1/2 Sheetmetal Screws (for attaching switch)
	4	1	122852	Brass Locknut (for attaching sensing tube)
	5	1	261957	Hex Panel Nut (for attaching sensing tube)
	6	1	171750	Sensing Tube
	7	1	133117	Silicone Tubing, 3/16" I.D. x 11" lg

DANGER

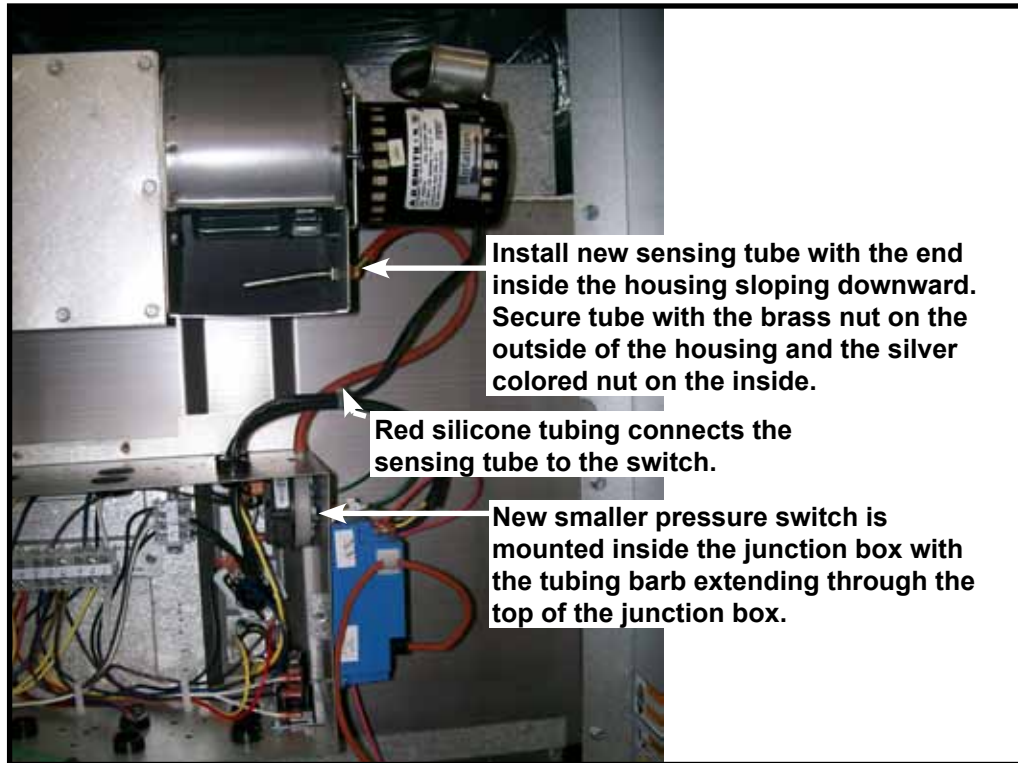
This replacement pressure kit is to be installed by a qualified service agency in accordance with these instructions and in compliance with all codes and requirements of authorities having jurisdiction. Failure to follow instructions could result in death, serious injury, and/or property damage. The qualified agency performing this work assumes responsibility for this installation.

Installation Instructions

1. Turn off gas and electrical supply to the heater.
2. Remove center access panel and upper venter panel to expose venter assembly and electrical junction box.
3. **Model RPV** - Disconnect wires from the sail switch and remove the sail switch and the sail switch mounting bracket from the venter housing. **Do not disconnect the wires in the junction box.**
Model RP - Disconnect the wires from the pressure switch. Remove the pressure switch; re-insert the screws in the heater to "plug" the holes. Remove the sensing tube and the aluminum tubing. **Do not disconnect the wires from the junction box.**
4. On the venter housing, install the new sensing tube either in the hole where the sail switch was located or where the original sensing tube was. Position the sensing tube with the **end inside the venter housing sloped downward.** (See **FIGURE 1**, page 2.) Attach the tube to the venter housing by first installing the brass locknut on the outside of the housing and then the hex panel (silver colored) nut over the tubing on the inside of the housing. Tighten the nuts to secure the sensing tube.
5. If possible, position the switch inside the junction box with the tubing barb toward the top as illustrated in **FIGURE 1** (page 2). Mark and carefully drill a hole (minimum 3/8")

Installation Instructions (cont'd)

FIGURE 1 - View of currently manufactured RP Model showing recommended position of the pressure switch and sensor. If installing the switch inside the junction box is not possible, attach the pressure switch to the duct side wall near the junction box.



in the top of the junction box to insert the pressure switch tubing barb. With the tubing barb out through the top of the junction box, use the two sheetmetal screws to attach the switch.

If the switch cannot be mounted in the box, attach it to the duct side near the junction box. Never attach the pressure switch to the collection box (above the duct side) because that area becomes too hot during heater operation.

6. Use the silicone tubing to connect the new sensing tube to the pressure switch. Make certain that both connections are secure.
7. Connect the wiring.

Model RPV – Use the wire assembly in the kit. Connect:

- Red wire to Normally Closed (NC) Terminal on the pressure switch
- Black wire to Normally Open (NO) Terminal on the pressure switch
- White wire to Common (C) Terminal on the pressure switch

Connect the opposite end of the wire assembly to terminals in the junction box where the sail switch wires are connected. Discard the sail switch wiring.

Model RP - Either re-connect the wires already in the junction box to the pressure switch or use the new wire assembly. Connect:

- Red wire to Normally Closed (NC) Terminal on the pressure switch
- Black wire to Normally Open (NO) Terminal on the pressure switch
- White wire to Common (C) Terminal on the pressure switch

If the new wire assembly is used, remove the old wiring, making identical connections in the junction box.

8. Replace the upper venter panel.
9. Turn on the electric and the gas supply to the heater.
10. Check heater to ensure operation is proper and safe.
11. Install center access panel. Heater is ready to be returned to normal service.

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