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

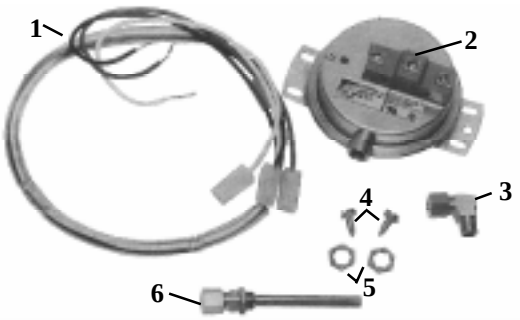
Description/Application

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 is designed to provide the switch and the hardware to re-locate the replacement switch to a position that has been proven to provide longer service.

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.

Figure 1 - P/N 93033 Pressure Switch Kit



Code	Qty	P/N	Description
1	1	93034	Wire Assembly
2	1	68266	Pressure Switch TRIDELTA FS4100-48-71
3	1	18224	Compression Elbow
4	2	11813	No. 10 x ½ Sheet Metal Screws (for attaching switch)
5	2	24468	Pal-Nuts (for attaching sensing tube)
6	1	92777	Sensing Tube
	1	114240	Aluminum Tubing, ¼" O.D x 4¾ " lg
	1	129496	Copy Form CP16A

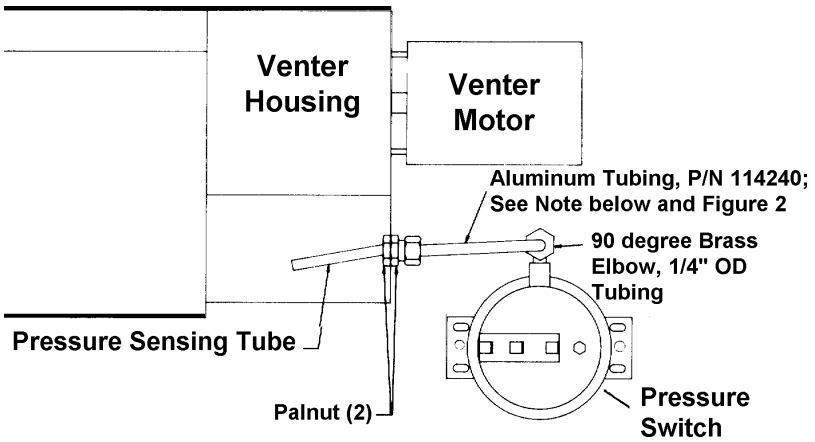
DANGER: This replacement pressure kit is to be installed by a qualified service agency in accordance with these instructions and in compliance with all codes and requirements of authorities having jurisdiction. Failure to follow instructions could result in death, serious injury, and/or property damage.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

Installation Instructions

1. Turn off gas and electrical supply to 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 sail-switch and sail-switch mounting bracket from venter housing. **Do not remove wires from junction box at this time.**

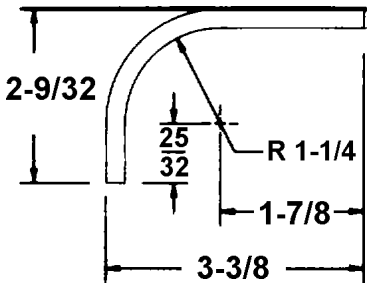
   Model RP - Disconnect the wires from the pressure switch. Remove the pressure switch; re-insert the screws in the heater to "plug" the holes. Remove the sensing tube and the aluminum tubing. Do not disconnect the wires from the junction box.
4. Install the new sensing tube either into the hole where 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.** Use the pal-nuts to secure the sensing tube to the venter housing.
5. Attach the compression elbow to the pressure switch. Position the pressure switch as illustrated in Figure 1 with the following considerations:
   (a) Elbow must be at the top of the switch facing outward.
   (b) **THE TOP OF THE PRESSURE SWITCH MUST BE ABOVE THE SENSING TUBE.**
   (c) When formed, the aluminum tubing must be able to connect the switch and the sensing tube. (If tubing is not formed, carefully bend the tubing to fit, see dimensions in Figure 2.)

Figure 1 - Location Drawing for Installation of Pressure Switch



NOTE: Pressure sensing tubing, P/N 114240, must slope downward towards pressure sensing tube, P/N 92777.

Figure 2 - Dimensions for Forming Tubing, P/N 114240



Tube length is 4-3/4" long flat.

Installation Instructions (cont'd)

Use the two sheetmetal screws to mount the switch in its proper location.

For long life and reliable service, it is important that the pressure switch be located as illustrated. Never attach the pressure switch to the collection box (above the duct side) because that area becomes too hot during heater operation.

6. Connect the aluminum tubing to the sensing tube fitting and to the pressure switch. Make certain connections are secure.

7. Model RPV – Attach the wires supplied with the kit to the pressure switch:

Red Wire to Normally Closed Terminal

Black Wire to Normally Open Terminal

White Wire to Common Terminal

Connect opposite end of the pressure switch wires to terminals where the sail switch wires are connected. Remove the original sail switch wiring and discard.

Model RP - Re-connect the wires to the pressure switch.

Red Wire to the Normally Closed Terminal

Black Wire to the Normally Open Terminal

White Wire to the Common Terminal

(The wire assembly in the kit is not used. **Or,** replace the original wire assembly with the one provided in the kit, making identical connections in the junction box.)

8. Replace the upper venter panel.

9. Turn on electric and gas supply to the heater.

10. Check heater to ensure operation is proper and safe.

11. Install center access panel. Heater is now ready to be returned to normal service.

FOR YOUR SAFETY

If you smell gas:

1. **Open windows.**
2. **Don't touch electrical switches.**
3. **Extinguish any open flame.**
4. **Immediately call your gas supplier.**

The use and storage of gasoline or other flammable vapors and liquids in open containers in the vicinity of this appliance is hazardous.

DANGER: The gas burner in Reznor gas-fired equipment is designed and equipped to provide safe and economically controlled complete combustion. However, if the installation does not permit the burner to receive the proper supply of combustion air, complete combustion may not occur. The result is incomplete combustion which produces carbon monoxide, a poisonous gas that can cause death. Safe operation of indirect-fired gas burning equipment requires a properly operating vent system which vents all flue products to the outside atmosphere. FAILURE TO PROVIDE PROPER VENTING WILL RESULT IN A HEALTH HAZARD WHICH COULD CAUSE SERIOUS PERSONAL INJURY OR DEATH.

Always comply with the combustion air requirements in the installation codes and instructions. Combustion air at the burner should be regulated only by manufacturer-provided equipment. NEVER RESTRICT OR OTHERWISE ALTER THE SUPPLY OF COMBUSTION AIR TO ANY HEATER. Indoor units installed in a confined space must be supplied with air for combustion as required by Code and in the heater installation manual. MAINTAIN THE VENT SYSTEM IN STRUCTURALLY SOUND AND PROPERLY OPERATING CONDITION.

1098 2.5M WE Form CP-16A.2