

Installation Guide 5500 M Series Infinite Switch Kit

The Robertshaw® 5500 M series is a voltage sensing (parallel circuit) infinite switch designed to replace the current VSI (INF) switch. The 5500 M series is the replacement control for the current model INF. This patented control has the smallest physical dimensions possible to adapt to common application specifications and maintains the highest level of quality and performance.

These model 5500 M Series Kits have the exclusive universal design square break-off shaft. The shaft adaptors included with these kits allow the service person to use the customer's original dial on the replacement switch. There is no dial included with this kit. The shaft can be broken off to the required length to adapt to numerous OEM applications.

Specifications:

UL Approved #E110428

15 Amps @ 120/240 Volt 50/60 Hz for 200°F (93°C) ambient

13 Amp rating for all temperatures up to maximum ambient of 257°F (125°C)

Options include: Push-to-Turn or Non-Push-to-Turn

Key Features include: Controllable range of output power with Lo and Hi detents, and a compact and lightweight design

INSTALLATION INSTRUCTIONS

CAUTION: This device should be installed by a qualified service technician with due regard for safety, as improper installation could result in a hazardous condition.

1. Unplug range or disconnect power.
2. Remove dial from switch.
3. Gain access to the inoperative switch. Refer to the original user manual for the appliance for proper disassembly.
4. Label all wires with tags or make an exact drawing of wiring configuration before removing any wires.
5. Remove original switch.
6. Determine mounting type for the new switch: Screw Mount or Palnut.

Note: The 5500-M must be mounted with the slotted vents at the top.

Screw mount (Figure 1) is the most common. Attach the new switch to the rear panel with the original screws or use the two flathead screws supplied in the kit.

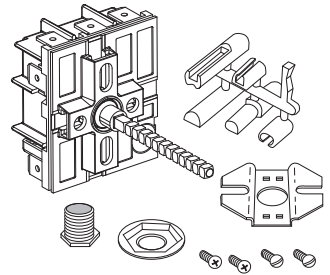
Palnut mount (Figure 2) requires adding the bushing and the bracket before inserting the shaft through the rear panel. Use the two smaller Phillips head screws to attach the bracket vertically or horizontally to the new switch.

Secure the switch (finger snug) to the rear panel with the palnut.

7. Temporarily mount the switch and place the original dial on the new switch shaft using one or more of the adaptors on the sprue tree (Figure 3). Make sure the shaft goes in all the way. See Figure 4 for assembly of the spring clip to the adaptor if applicable.
8. Measure distance from back of dial to the front of the panel and subtract an 1/8". This measurement is needed in the next step.
9. Remove switch. Use measurement from previous step. Measuring from the end of the shaft, mark the shaft at the nearest break-off point (or at the next break-off groove toward the end of the shaft to avoid breaking off too short).

Note: If the control is push-to-turn and the shaft is broken off too short, it will not allow the dial to detent as needed for proper operation. The control will need to be replaced as replacement shafts are not available.

10. To break off the shaft: Use two (2) pairs of pliers – one on each side of the marked groove (Figure 5). Hold pliers firmly and break shaft. DO NOT HOLD SWITCH BODY.
11. Remount switch, then proceed to wiring instructions.



VENTS UP

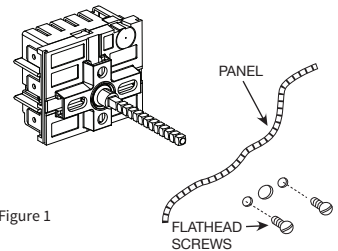


Figure 1

VENTS UP

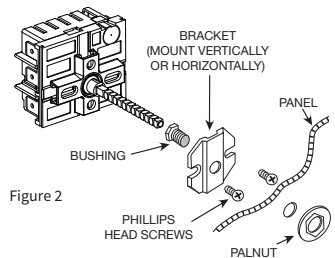


Figure 2

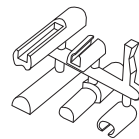


Figure 3

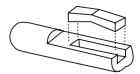


Figure 4

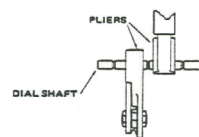
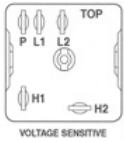


Figure 5

WIRING ROBERTSHAW VSI TO ROBERTSHAW 5500M SERIES

Connect wires from old switch to new switch as follows:



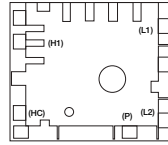
VSI Switch Terminal

L1 connect to
L2 connect to
P connect to
H1 connect to
H2 connect to

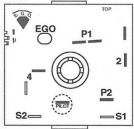
5500 M (MPS) Switch

Terminal

L1
L2
P
H1
HC



WIRING EGO TO ROBERTSHAW



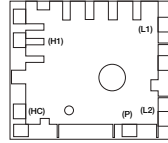
Old (EGO) Switch Terminal

P1 connect to
P2 connect to
Pilot connect to
4 connect to
2 connect to

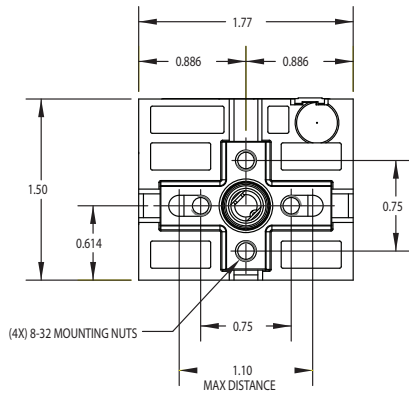
5500 M (MPS) Switch

Terminal

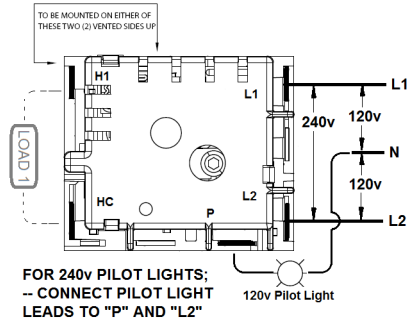
L2
L1
P
H1
HC



MOUNTING DIMENSIONS



WIRING SCHEMATIC



WARNING: The rear housing has a 1/4" diameter hole which is an access point to be used **ONLY** by qualified personnel for insuring proper assembly and calibration of the switch. Any tampering with internal components or altering factory settings of this switch will possibly damage other electrical components on the appliance and will VOID the WARRANTY of the switch.

ORDERING INFORMATION

5500 M Series		Replaces		Voltage	Push-To-Turn
Robertshaw Part #	Robertshaw Factory #	Robertshaw Part #	Factory #		
5500-102M	MPS-V112-1-UXM	5500-102	INF-120-599	120V AC	No
5500-200M	MPS-W108-UXM	5500-200	INF-240PX-803	240V AC	Yes
5500-202M	MPS-V116-UXM	5500-202	INF-240-597	240V AC	No

Robertshaw

RANCO • PARAGON • CASTFUTURA

Customer Service

+1 800 304 6563

HVACCustomerService@robertshaw.com

Technical Service

+1 800 445 8299

TechnicalService@robertshaw.com

www.robertshaw.com

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