

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 was designed to be the replacement control for the current model INF by developing and patenting a control with the smallest physical dimensions possible to adapt to specifications based on the most common applications while maintaining the highest level of quality and overall performance.

This instruction sheet is for the 5500-M series kits that have the exclusive universal design of the square break-off shaft. Included with these kits are the shaft adaptors that allow the service person to use the customers 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 # E112536

15 Amps @ 120/240 Volt 50/60 Hz for 200°F ambient

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

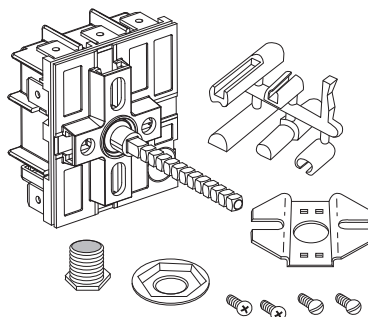
Options:

Push-to-Turn or Non Push-to-Turn

Key Features:

Controllable range of output power with Lo and Hi detents

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 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. Simply attached the new switch to the rear panel with the original screws or using 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 attached 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 spring clip to adaptor if applicable.
8. Measure distance from back of dial to the front of the panel and subtract an 1/8 inch. This becomes your measurement needed in the next step.
9. Remove switch. Use measurement from previous step and 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).

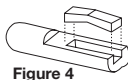


Figure 4

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

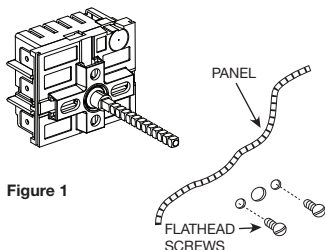


Figure 1

VENTS UP

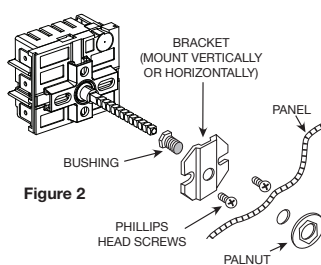


Figure 2

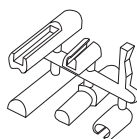


Figure 3

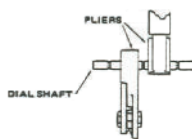
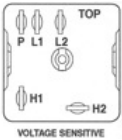


Figure 5

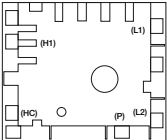
WIRING ROBERTSHAW VSI TO ROBERTSHAW 5500-M SERIES

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 (MPA) Switch Terminal #	
L1	
L2	
P	
H1	
HC	

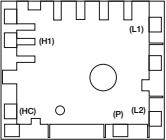


WIRING EGO TO ROBERTSHAW

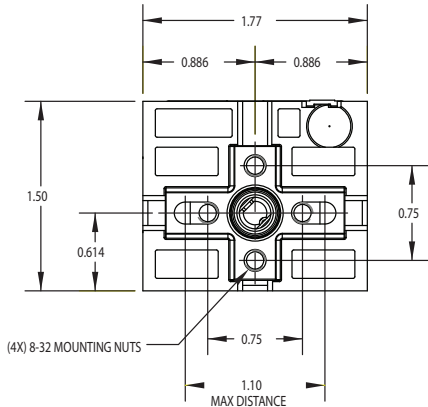


Old (EGO) Switch Terminal #	
P1	connect to
P2	connect to
Pilot	connect to
4	connect to
2	connect to

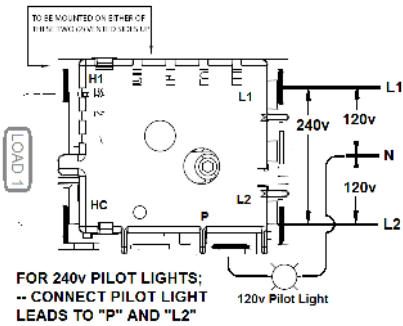
5500-M (MPA) Switch Terminal #	
L2	
L1	
P	
H1	
HC	



MOUNTING DIMENSIONS



WIRING SCHEMATIC



WARNING: The rear housing has a 1/4" diameter hole which is an access point to ONLY be used 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 as well as immediately VOIDING the WARRANTY of the switch.

ORDERING INFORMATION

5500-M Series		Replaces		Voltage	Push-To-Turn
Uni-Line® Part #	Robertshaw Part #	Uni-Line Part #	Robertshaw Part #		
5500-102M	MPA-V112-UXM	5500-102	INF-120-599	120	No
5500-200M	MPA-W108-UXM	5500-200	INF-240PX-803	240	Yes
5500-202M	MPA-V116-UXM	5500-202	INF-240-597	240	No