



INSTALLATION DATA INFINITE SWITCH KITS

The Robertshaw® Infinite Switch Kits are designed to provide universal replacement of original equipment infinite switches and 3, 5 and 7 heat switches.

The dial adaptors allow the serviceman to use the customer's dial on the replacement switch. The dial shaft may be broken off to the required length and is factory assembled in the switch.* A dial is not included with the kit.

ELECTRICAL RATING



WARNING! Electrical Shock Hazard

Disconnect electrical power before servicing. Failure to do so can result in death or electrical shock.

15 AMP at 120/240V AC resistive load.

INSTALLATION INSTRUCTIONS

This device should be installed by a qualified service technician.

MOUNTING

1. Determine mounting type, screw (figure 1) or nut (figure 2), and mount control accordingly. If temperature indicator plate is used refer to figure 3.
NOTE: Word "TOP" on rear of control must be installed UP for proper calibration.
2. Place original dial, using shaft adaptors on dial shaft. Measure distance from back of dial to panel front. See figure 4 for assembly of spring clip adaptor.
3. Remove control and measure off distance (obtained in step 2) on shaft from end towards control body. Find breakoff groove nearest this distance and mark.
4. Place a pair of pliers on each side of the marked groove. Hold pliers firmly and break shaft. DO NOT HOLD SWITCH BODY.
5. Remount control; then proceed to wiring instructions below.

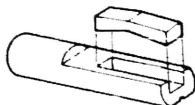


FIGURE 4

WIRING

See appropriate wiring diagram. **WHEN INSTALLING ON RANGE WITH OTHER TOP ELEMENT SWITCHES DO THIS:**

1. Disconnect power to range.
2. Connect the line wires to L1 and L2 terminals.
3. Connect the two load wires to H1 and H2 terminals.
4. Do not connect pilot lamp wire at this time.
5. Reconnect power to range. Turn on the new switch and one of the other switches.
6. Place volt meter leads on L1 of the new switch and the P terminal of other switch mentioned in step 5. If you read 220 volts, you must reverse the wires at L1 and L2 of the new switch before installing the pilot wire to the P terminal of the new switch.

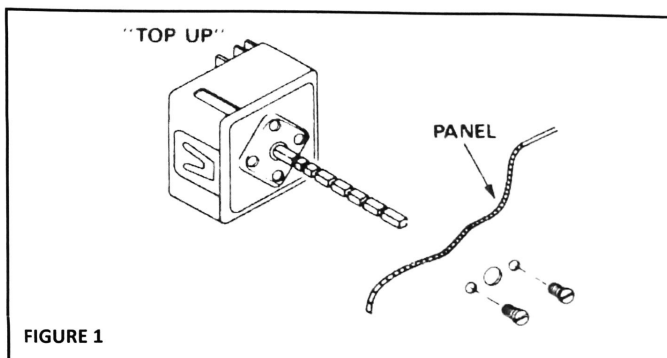
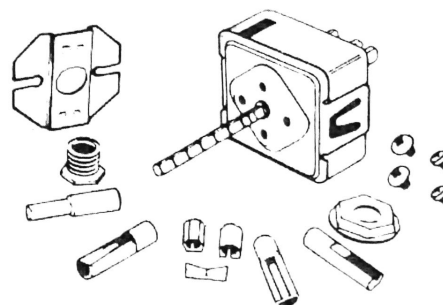


FIGURE 1

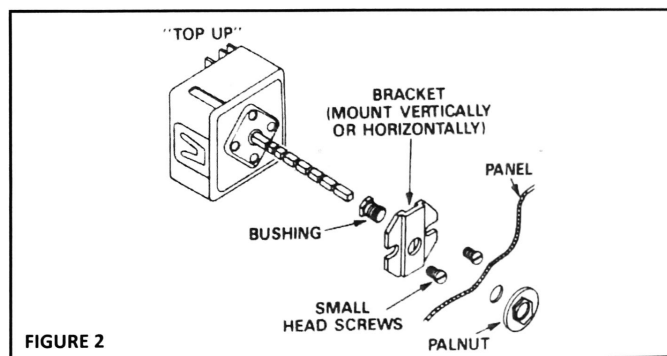


FIGURE 2

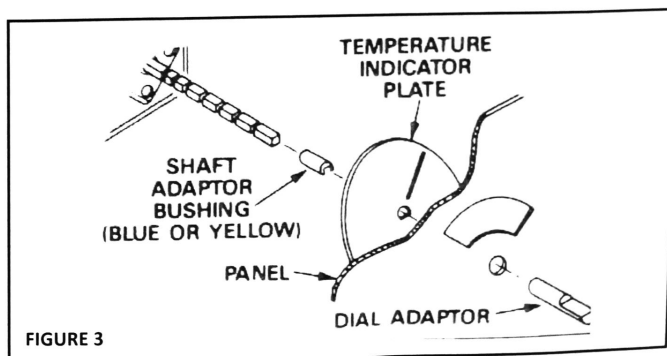


FIGURE 3

INSTALLATION INSTRUCTIONS (Cont'd.)

SPECIAL NOTE "FLASHER" UNITS

On dual voltage or "flasher" type switches a 120 volt single coil element was used in which the "flasher" switch provides 240 volts for about 20 seconds and then operates as an infinite control at 120 volts. When replacing this type flasher switch, replace with the 120V AC type infinite control. The surface element does not need to be replaced.

Westinghouse also used another type flasher during 1952 to 1954. They used a double coil element which consisted of two 625 watt 118 volt coils. During the flash period the two element coils were placed in parallel across 240 volts and the switch after flashing connected the two coils in series across 240 volts. Use a 240V AC type infinite replacement and make sure the two 625 watt elements are connected in series.

REPLACING INFINITE end single element heating unit switches.

NOTE: Jumpers are required on heating elements having three or more terminals

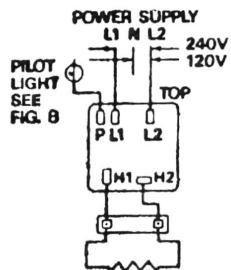


FIGURE 5

REPLACING 3 HEAT ROTARY SWITCHES.

Use correct infinite switch for power supply, i.e., 120V or 240V. If 240V element is used, tape neutral and correct power supply to L1 and L2.

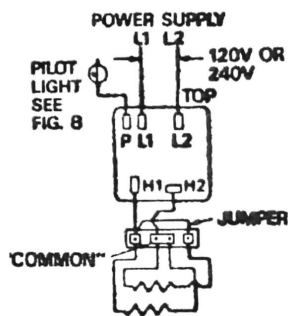


FIGURE 6

REPLACING 5 AND 7 HEAT ROTARY SWITCHES.

NOTE: Tape neutral or common wire from power supply and connect 240V power supply to L1 and L2.

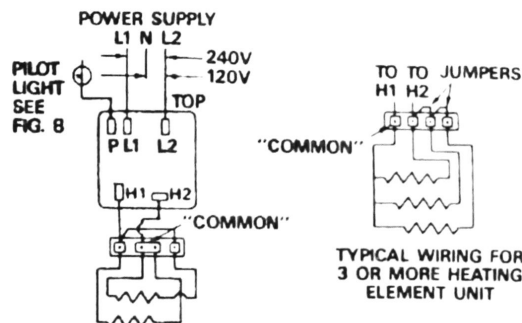


FIGURE 7

PILOT LIGHT WIRING

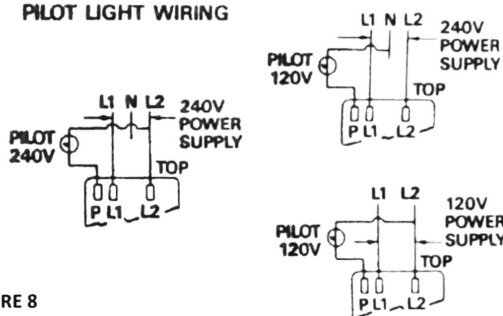


FIGURE 8

REPLACING HARPCO, HART, PROCTOR AND KING SEELY TYPE SWITCHES.

Proctor and King Seely are the same. Note the wire which is connected to terminal #3 on Proctor switches is connected to terminal L1 on the infinite kits. This assures that the common light is energized from the same side of the line. To do otherwise will destroy the switch. Infinite kits differ in that L1 and L2 are reversed.

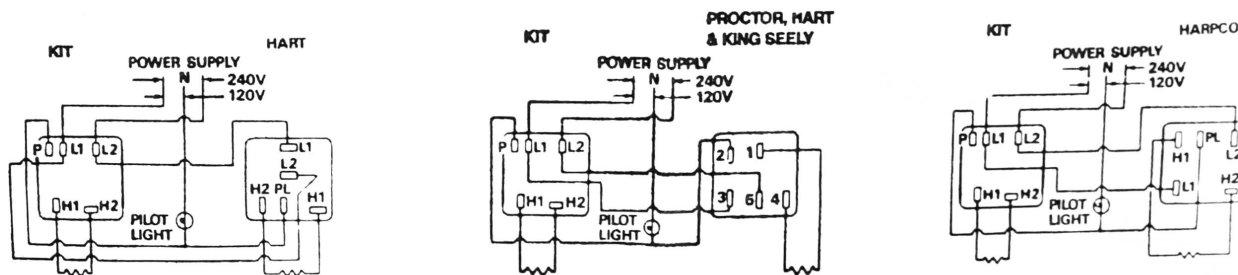


FIGURE 9



Customer Service Telephone 1.800.304.6563
Customer Service Facsimile 1.800.426.0804
HVACCustomerService@robertshaw.com

For Technical Service
Telephone 1.800.445.8299
Facsimile 1.630.260.7294
TechnicalService@robertshaw.com

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