

Heating Element Control

DANGER:

- These heating element controls are not insulated. Contacting an energized heating element or control contact can cause burns, electrocution, or death. Always disconnect the power to the unit when there is any chance of contacting exposed wiring or contacts.
- Equipment using these elements should be operated on circuits protected by a ground fault interrupter (G.F.I.).
- All circuitry and equipment should be checked prior to use by a licensed electrician.
- Check with Federal, State and Local building and wiring codes prior to use.

OPERATING:

- When operated from a 120 Vac source, this controller will provide power to one 1800 watt heating element ONLY.
- When operated from a 220 Vac source, this controller will provide power to two 1800 watt heating elements wired in series.



INSTALLATION DATA

5500 SERIES

INFINITE SWITCH UNI-KITS®

The 5500 Infinite Switch Uni-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 kit.

ELECTRICAL RATING

15 AMP at 120/240VAC resistive load.

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.



* Covered under one or more of the following U.S. patents: 3,110,789 3,236,548 3,429,199

INSTALLATION INSTRUCTIONS

Disconnect all power to range.

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.



FIGURE 4

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.

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 stove. 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.

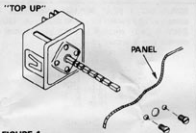


FIGURE 1

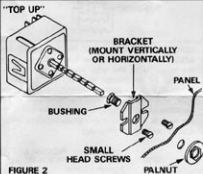


FIGURE 2

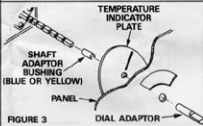


FIGURE 3

REMOVE CLEAR PROTECTION**FIGURE 4****ATTACH OVERLAY****FIGURE 6****REMOVE BACKING****FIGURE 5****OBTAIN A PERMANENT FIT****FIGURE 7**

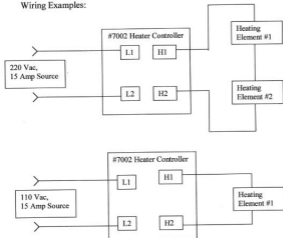
5. Take the SLIP-FIT overlay, Fig. 1, and carefully remove the clear protective covering over the numbered side. Begin removal from the inside edge of the overlay. See Fig. 4.
6. Carefully peel off the backing from the adhesive that is on the back of the SLIP-FIT overlay. Try not to touch the adhesive. See Fig. 5.
7. Position the SLIP-FIT dial overlay over the knob with the "Off" position aligned in the desired position. Carefully slide the SLIP-FIT overlay down and over the locating ribs on the knob, see Fig. 6.
8. Press the SLIP-FIT overlay down firmly into position. Use a soft cloth and rub around the overlay to obtain a permanent fit. See Fig. 7.

Controller & Heater Wiring

For
BCS Controller #7002 (#7003)
And
Heating Elements #7000 (#7001)

- The BCS #7002 Controller can operate one #7000 Heating Element from a 110 Vac 15 Amp source, or, two #7000 Heating Elements from a 220 Vac 15 Amp source.
- *Under no circumstances can a single controller run two heating elements from a 110 Vac source, regardless of the current available.*
- *WARNING: A Ground Fault Interrupter must protect All Power. Components are not insulated. Fatal electrical shock can occur by contacting exposed conductors. High temperature wire must be used in areas subjected to heat. Equipment must be properly grounded. If in doubt about proper wiring, consult a licensed electrician. Check with National, State and Local building codes for proper wiring requirements.*

Wiring Examples:



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 provided 240 volts for about 20 seconds and then operated as an infinite control at 120 volts. When replacing this type flasher switch, replace with the 120VAC type infinite control. The surface element need not 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 240VAC type infinite replacement and make sure the two 625 watt elements are connected in series.

REPLACING INFINITE and single element heating unit switches.

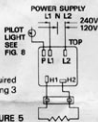


FIGURE 5

NOTE: Jumpers are required on heating elements having 3 or more terminals.

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.

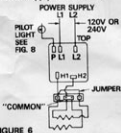


FIGURE 6

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.

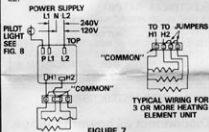


FIGURE 7

PILOT LIGHT WIRING

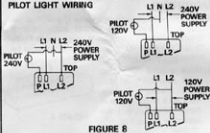


FIGURE 8

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 Robertshaw Infinits. This assures that the common light is energized from the same side of the line. To do otherwise will destroy the switch. Hart and Robertshaw infinits differ in that L1 and L2 are reversed.

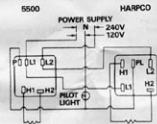
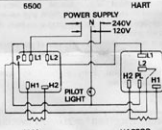
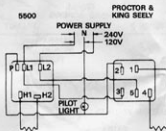
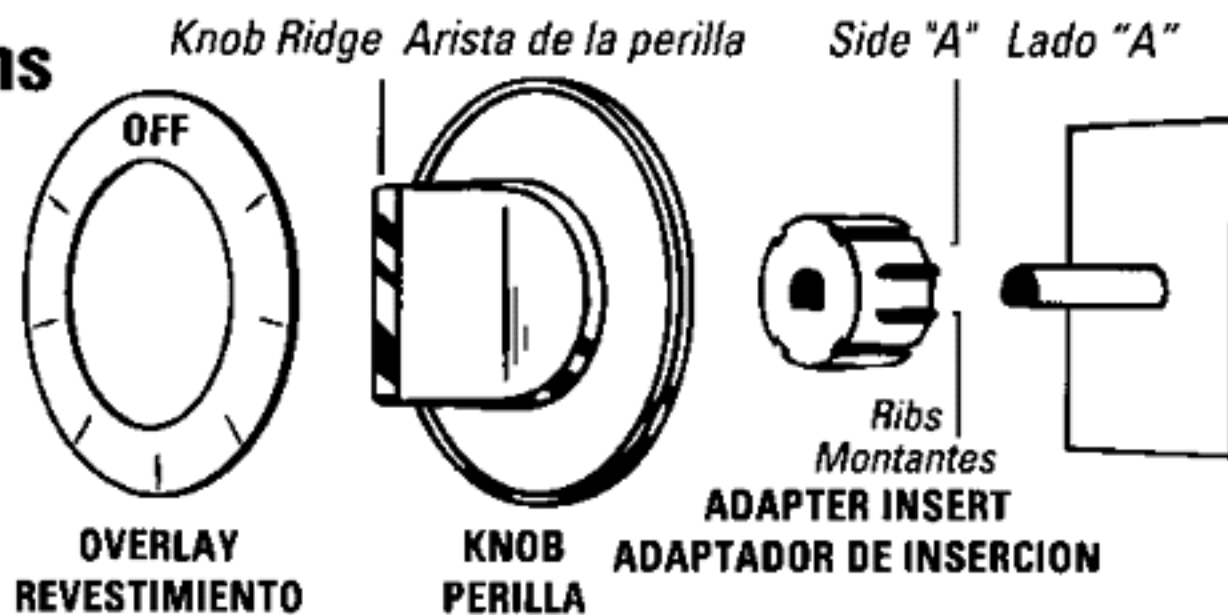


FIGURE 9

Instructions



Instrucciones

How To Replace Knobs

1. Turn old knob to "OFF" position. Note if knob ridge is in vertical or horizontal position. Remove from control stem.
2. Select an adapter insert that fits snugly on control stem and position with Side A (side where ribs are even with edge) facing stem.
3. Match orientation of knob ridge (horizontal or vertical), push onto new knob and adapter insert.
4. Remove knob and adapter insert assembly from stem. Push insert into knob completely, leaving 1/8" of insert showing outside the knob.
5. Remove protective coating from front of dial overlay.
6. Select appropriate dial overlay. Remove adhesive back, align notches on overlay to ribs on knob so that "OFF" is in correct final position, and with soft cloth apply pressure.

Como Cambiar Las Perillas

1. Coloque la perilla vieja en posición de "APAGADO" (OFF). Observe si la arista de la perilla se encuentra en posición horizontal o vertical. Quítela de la espiga del control.
2. Seleccione un adaptador de inserción que se adapte bien a la espiga de control y posicónela de acuerdo con el Lado A (el lado donde las costillas estén parejas con la orilla), de frente a éstas.
3. Haga coincidir la orientación de la arista de la perilla (horizontal o vertical), coloque la perilla nueva y el adaptador de inserción.
4. Retire la perilla y el montaje del adaptador de inserción de la espiga. Empuje el adaptador de inserción completamente dentro de la perilla, dejando un espacio de 1/8 pulgadas de inserción que se muestre por la parte exterior de la perilla.
5. Retire el revestimiento protector de la parte delantero en la esfera.
6. Seleccione el dial apropiado del revestimiento.

Retire la parte posterior de la cubierta del adhesivo en el revestimiento del dial, alinee las muescas del revestimiento con las costillas de la perilla de modo que la posición de apagado (OFF) esté en una posición correcta final y con una tela suave aplique presión.

