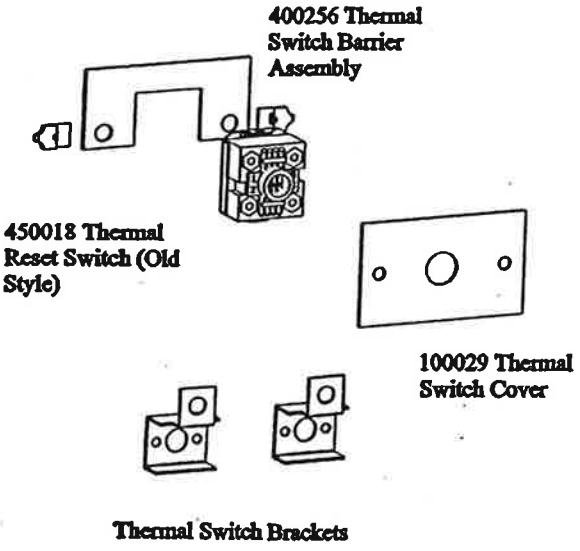
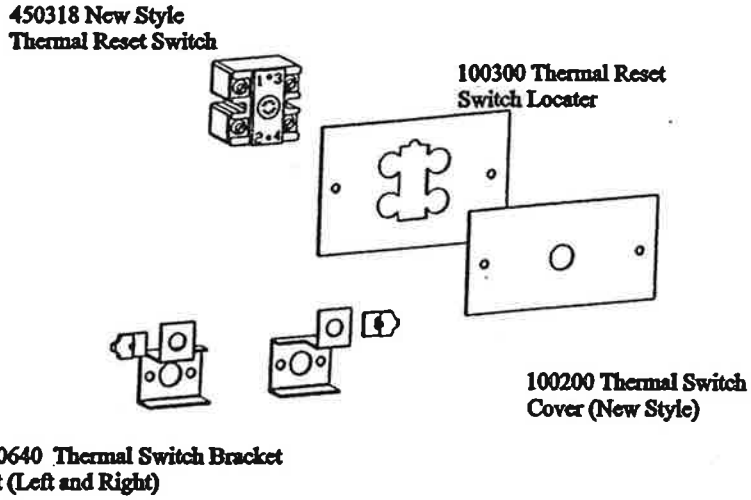
Thermal Reset Switch Conversion Kit- Part # 450 200
for 120 volt Models 30 & 46 with original switch # 450 018

Replacement switches #450 018 are no longer available. The new switches #450 318 are used on all current production models.
Conversion to the new switches requires removal of the thermal switch brackets and replacement with new brackets designed for the current model switch.
Notice that the right and left brackets are not identical.
Be careful not to disturb the heating element supports (four studs protruding from inside the tank). Use all new seals when installing the new thermal switch brackets.
Refer to Heating Element Replacement Instructions for proper procedure for installing seals and brackets.

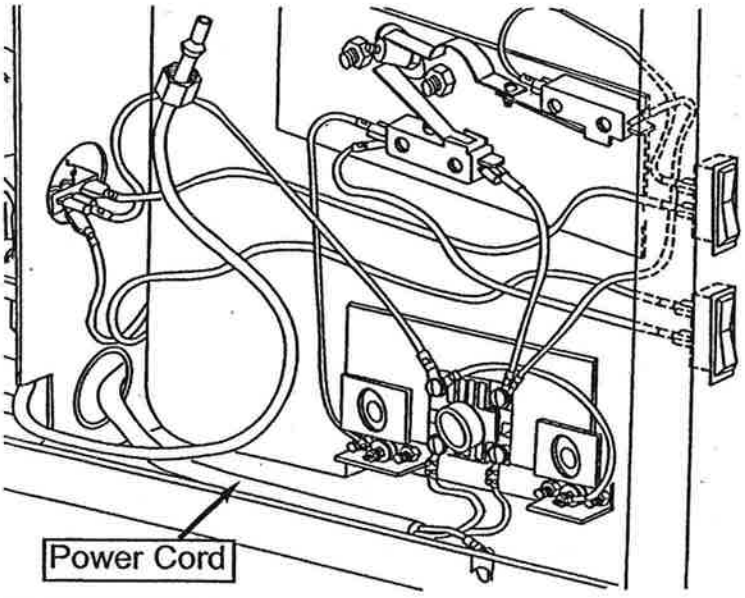
Old Switch Assembly



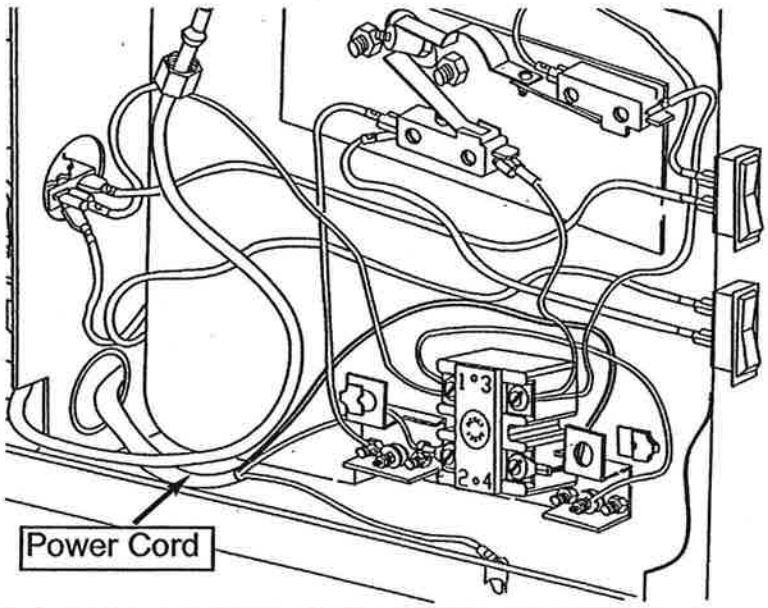
New Switch Assembly



Old Wiring



New Wiring



NOTE: All wires are connected to the same terminal numbers on the new switch as they were on the old switches. As shown above, the Power Cord routing is changed for the new switch. A new Power Cord is included in the kit to make this practical.

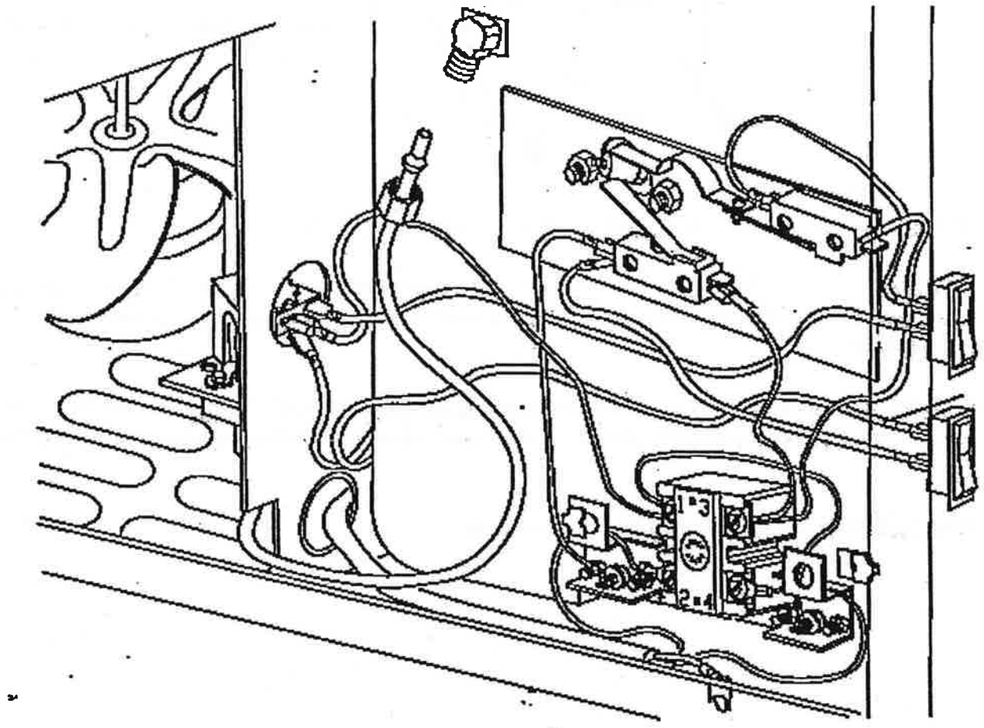
Thermal Reset Switch Conversion Instructions

1. Disconnect the water distiller from any power sources to avoid electrical shock.

2. Facing the distiller from the front, remove the front cover of distiller by removing the four phillips screws.

3. The thermal reset switch is located in the lower right hand side of the unit, with a red push-button in the center.

4. With a phillips screw driver, remove the two screws that hold the reset switch cover in place. Set aside



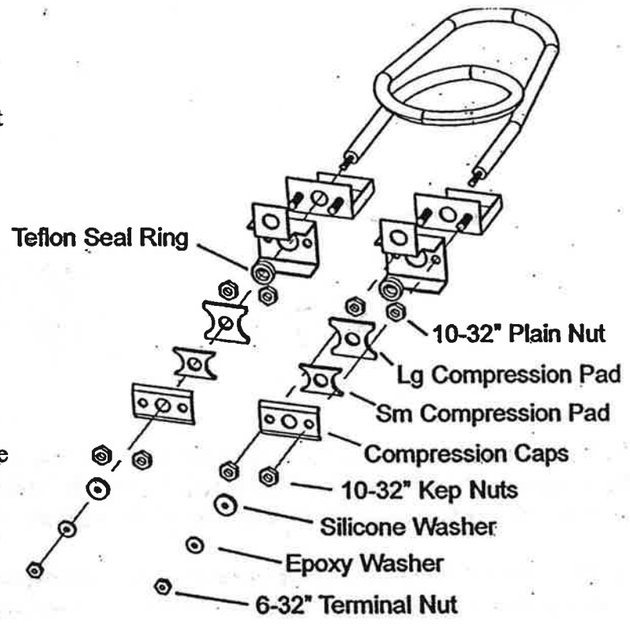
screws for later use, but discard old cover and thermal switch barrier assembly. New cover and locator are provided.

5. Using a flat-head screw driver, unscrew the black and white wires connected to the two lower terminals of the reset switch. Also, unscrew the green (ground) wire attached to the bottom of the distiller. Keep nut and cap washer to reattach later.

6. With the flat-head screw driver, disconnect the top left terminal screw and remove both wires from old switch. Connect these wires to the new reset switch in terminal #1. Repeat step for wires on right side of old switch and connect to new switch in terminal #3. NOTE: Install new switch so that terminals #1 and #3 are at the top.

7. Located to the left and right of the thermal reset switch are the heating element brackets. Remove the 6-32" terminal nut, silicone washer, and epoxy washer located in the center of these brackets. Then remove both 10-32" Kep nuts, compression caps, silicone rubber compression pads and gray-seal ring gaskets. The compression caps will be reused, but all of the gaskets will be replaced.

8. Remove both old style thermal switch brackets and discard. Identify the new thermal switch brackets (left and right) provided. The left side bracket will have the top tab on the left side, and the bracket for the right side will have the tab on the right, top side.



9. Starting on the right side, attach the new style bracket onto the support, with the tab on the top of the bracket to the right. While holding the heating element in place, put the gray seal ring over the end of the heating element rod and press firmly into place. (A blunt instrument, such as the end of a ball point pen, may be used to gently press the seal ring into the pocket around the heating element.)

10. Place one 10-32" Plain nut on each support bracket end and tighten securely.

11. Next, place the larger compression pad on the heating element end and then the smaller pad on top. Align pads between nuts.

12. With the heating element contact loop against the tank wall, reuse the compression cap and place over the rubber pads and tighten two 10-32" Kep nuts onto each support bracket end.

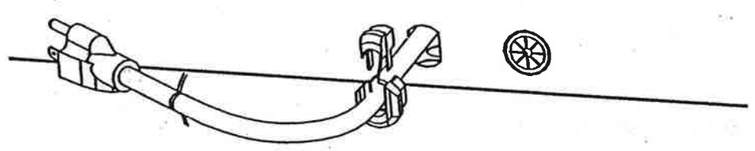
13. Repeat steps for left side bracket.

14. Starting with the bracket on the right side, attach the silicone disc, epoxy washer and a 6-32" terminal nut to the heating element rod located in the center of the bracket. Reattach the white wire onto the rod and then attach the second 6-32" terminal nut. Securely tighten nut.

15. Repeat step for the left side mounting bracket.

Removing the old power cord and installing the new cord provided

16. Located at the back of the distiller, where the power cord exits the distiller, is the power cord strain relief connector. The strain relief has two parts, which are compressed together around the power cord. To remove the strain relief connector, use "slip joint"pliers or vice grips to press the top and bottom of the strain relief connector together. Once compressed, work the pliers or vice grips in an upwards motion to pull out the bottom portion of the strain relief from the frame of the distiller. Once the lower portion is out, pull down on the pliers or vice grips to pull out the top portion. The top and bottom portions will separate enabling the power cord to be removed from the strain relief. Once the strain relief is detached from the frame of the distiller and from the power cord, gently pull the power cord completely out of the distiller.



17. To install the new power cord, insert cord into back of distiller leading with the "exposed wire end"of the power cord first. Facing the front of the distiller, pull the power cord through the small, round opening in the bottom portion of the distiller toward the reset switch.

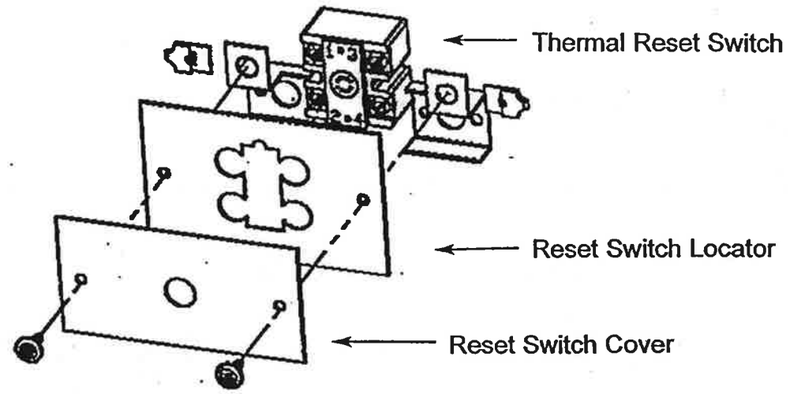
18. Unscrew the screw located on terminal 4 of the thermal reset switch, and attach the black wire from the power cord. Retighten the screw. NOTE: Be sure that the black wire is behind the heating element bracket.

19. Unscrew the screw located on terminal 2 of the thermal reset switch, and attach the white wire from the power cord. Retighten the screw.

20. Using the nut and cap washer, attach the green(ground) wire to the bottom of the distiller frame.

21. Reinstall the strain relief connector by compressing it around the power cord and inserting it back into the frame of the distiller. Work the strain relief connector from the bottom first to insert back into the frame of the distiller, then the top portion.

22. Ensure that all the bare metal from the terminals is only touching the proper connection points on the thermal reset switch.



23. Install the thermal reset switch locator onto the thermal reset switch.

24. Install the new style thermal reset switch cover over the reset switch locator. Using the two original sheet metal screws, and the phillips screw driver, reattach the screws and tighten to compress the cover and locator into place.

25. With the original four sheet metal screws, reattach the front cover of the distiller. NOTE: Ensure that the red button on the reset switch is centered in the cover opening, and that no wires are exposed or showing.

26. Plug in distiller and observe for proper operation.