

SSK Solid State Control (part number KE00458)

SWITCH



SWITCH - Push for 5 seconds to enter TEST #1
Press again for TEST #2 and again for TEST #3

CPU



CPU - Rapid flashing during normal operation
TEST #1 = 1 flash/sec Water level test
TEST #2 = 2 flash/sec Thermistor test
TEST #3 = 3 flash/sec Heater Output test

DIAGNOSTIC

LED



TEST #1 GREEN Probe senses water
RED No water sensed

TEST #2 GREEN Thermistor is sensed
ORANGE Thermistor is shorted
RED Thermistor is open circuit

POTENTIOMETER



LOW WATER



HEATER OUTPUT



TEST #3 GREEN voltage output to relay for 20 seconds.
Normal operation LED matches Front heater (green) LED

THIS CONTROL BOX MUST BE CALIBRATED WHEN REPLACED
(see back for test and calibration instructions)

CALIBRATION INSTRUCTIONS

KETTLE MUST BE EMPTY WHEN PROCEDURE IS EXECUTED

1. Insure that the kettle is at room temperature and has a vacuum before you begin calibrating procedure. If unit requires venting refer to "Kette Venting Instructions" in the service manual.
2. Turn kettle ON and set temperature dial to 10 (maximum).
3. Allow the unit to cycle twice.
4. Using a digital surface thermometer locate the hottest point on the kettle surface.
5. Note temperature when the unit cycles off. It should be between 260°-265° F.
6. If adjustment is required turn the potentiometer slightly clockwise to increase or counter-clockwise to decrease temperature.
7. Allow the unit to cycle twice.
8. Locate the hottest point and re-check temperature of the inner kettle surface with a digital surface thermometer.
9. Repeat steps 5 through 8 until unit is calibrated.

TEST INSTRUCTIONS

1. If required remove board from holding bracket for better access.
2. Turn unit on and set to 10 (maximum).
3. Push and hold the **SWITCH** button for approximately 5 seconds until the **CPU** starts to flash 1 flash/second. You are now in TEST #1. Output to 12v relay is disabled. With kettle upright the **DIAGNOSTIC LED** should be green, with kettle tilted it should be red.
4. Push **SWITCH** button. The **CPU** starts to flash 2 flash/second. You are now in TEST #2. Check the **DIAGNOSTIC LED** for indication of the temperature probe status.
5. Push **SWITCH** button. The **CPU** starts to flash 3 flash/second. You are now in TEST #3. The **HEATER OUTPUT LED** should light for 20 seconds and power to the relay should energize the 12v relay for the heat source. After 20 seconds test mode is exited and unit reverts to normal operation.