

BULLETIN NUMBER: SP8037-1405
DATE: 5/23/2014
PRODUCT LINE: ACCU-STEAM
MODELS: ALL ELECTRIC & GAS MODELS
SERIAL NUMBER: ALL
SUBJECT: TEMPERATURE VERIFICATION AFTER FIELD INSTALLATION
FOR RTD THERMOSTAT (P/N AT0E-2559-6 OR -7).

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PURPOSE:

Measured and record griddle surface temperatures at the thermostat settings of 300°F and 400°F to verify that the RTD Thermostat is installed correctly. *The approved AccuTemp temperature drift-ranges for the above temperature settings will be given in the Procedure section below.*

If the measured surface temperature doesn't match the thermostat temperature setting, contact AccuTemp Service Department at 800-480-0415, before conducting any field thermostat calibrations.

PRECAUTIONS:

- There are some precautions to note prior to conducting a Temperature Verification Test on the griddle:
 - I. The analog thermostat knob adjustment (temperature selection) is not precise due to sight (parallax) error.
 - II. Field test equipment is often found not to be within correct calibration to conduct the test accurately.
 - III. Griddle surface temperature sensors are prone to having temperature errors or discrepancies.
 - a. Some of these errors are caused by poor physical surface contact, sensor junction degradation, and debris build-up on the griddle surface and/or sensing equipment probes.
 - IV. Temperature sensor location on the surface of the griddle is sensitive.
 - a. The sensor must be placed between the weld studs (dimples) and not directly on-top of the weld stud.
- **Field Temperature Meter (Fig A) must be calibrated to NIST-traceable standards and the Temperature Meter and Sensor (Fig B) pair must be verified together to NIST-traceable standards as well.**

FIG A



DIGITAL TEMPERATURE
MEASUREING METER

FIG B



WEIGHTED
TEMPERATURE PROBE

TOOLS AND TEST EQUIPMENT REQUIRED:

- Calibrated Weighted Thermocouple Probe
- Calibrated Digital Temperature Measuring Device
- Small amount of High Temperature Cooking Oil

PROCEDURE:

With the replacement RTD Thermostat installed...

1. Place a small amount of the High Temperature Cooking Oil on the surface center of the griddle. (This location is approximately above the internal RTD Thermocouple of the griddle.)
2. Place the Weighted Temperature Probe on top of the oil, ensuring that the probe is positioned between the weld studs and not on-top of them, as shown in Fig C.
3. Turn the griddle Power Switch to ON and set the Thermostat Knob to 300°F. Verify that the thermostat knob is aligned with the 300°F mark on the overlay to reduce the occurrence of parallax errors. If the griddle is already operating, set the thermostat knob to 300°F.
4. Allow the unit to reach a stabilized surface temperature. The red Heat light will cycle OFF & ON when stabilization is reached. *The griddle surface temperature is designed to drift at an approved AccuTemp drift-range when the thermostat is set at 300°F on the Control Panel.*
5. Measure and record the **temperature drift-range for 300°F. The approved AccuTemp drift-range, with the Thermostat set at 300°F, is 305°F to 295°F.**
6. Turn the Thermostat Knob to 400°F and allow the griddle surface temperature to stabilize.
7. Measure and record the **temperature drift-range for 400°F. The AccuTemp approved drift-range, with the Thermostat set at 400°F, is 400°F to 392°F.**
8. If the measured drift-range values **are within** the *approved AccuTemp drift-range for both the 300°F and 400°F Thermostat settings*, then RTD Temperature Verification is complete and Accu-Steam griddle is ready for cooking operations.

FIG C

If one or both of the measured drift-ranges are outside the approved AccuTemp drift-range, then contact AccuTemp Service Hotline at 800-480-0415, to determine if a RTD Thermostat Calibration is needed and have them provide the correct procedure if calibration is need.



ACCUTEMP TECHNICAL SERVICE INFORMATION:

Service Hotline Toll Free Phone: 800-480-0415

Service Email: service@accutemp.net Website: www.accutemp.net

Service Phone Techs are available Monday - Sunday from 7:00 am to 7:00 pm EST.