

HEATEC TEC-NOTE

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Re-calibrating Adjustment Pointers on UE Controllers



Heatec UE controller.

Do you use an older Heatec hot oil (thermal fluid) heater at your HMA plant or asphalt terminal? If so, the heater may be fitted with UE controllers. Over a period of time, the pointers on UE controllers will get out of calibration and need to be re-calibrated.

This procedure is for calibrating adjustment pointers on UE controllers that have dual knobs. These controllers are used to control operation of burners provided with low-high fire controls.

The controller has three pointers: a black pointer, a red pointer, and a green pointer. The black pointer is controlled by the thermal sensor and always denotes the temperature where the sensor is located.

The red pointer is for setting a *high* temperature to activate a switch in the controller. The green pointer is for setting a *low* temperature to activate another switch in the controller. Over a period of time these two pointers will get out of calibration. While the heater is operating, re-calibrate them as follows:

1. Remove the knobs and front cover from the controller. Re-install the knobs.
2. Rotate the knob for the green pointer counter-clockwise to set it to the lowest temperature on the scale.
3. Rotate the knob for the red pointer clockwise as far as it will go toward the highest temperature on the scale.
4. Rotate the knob connected to the green pointer clockwise until it activates its switch, causing the burner to operate at high-fire.
5. Repeat step 2.
6. Rotate the knob for the red pointer counter-clockwise very slowly until its switch activates and causes the burner to operate at low fire.

6. (continued)
Note the temperature difference (the number of degrees F) between the actual activation point and the temperature indicated by the black pointer.
7. Loosen the screw that secures the red pointer. (You may have to remove the knobs to access the screw.) Slip the red pointer toward the black pointer the number of degrees noted above. Tighten set screw for pointer.
8. Repeat step 3.
9. Rotate the knob for the green pointer clockwise very slowly until the burner switches to high fire. Note the temperature difference (the number of degrees F) between the actual activation point and the temperature indicated by the black pointer.
10. Loosen the screw that secures the green pointer. Slip the green pointer toward the black pointer the number of degrees noted above. Tighten set screw for pointer.
11. Remove the knobs. Re-install the front cover and knobs.
12. Set red and green pointers for normal operation of the burner. Typically, the green pointer is about 30 degrees F lower than the red pointer.



Loosening the screw that secures the pointer.

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