

Cooper Hand Tools – Weller® Division  
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**Bulletin Date:** August 23, 2007

**Model(s):** Weller® WR3M / WR3000M Series Rework Systems

## **WELLER® REWORK SYSTEMS MODELS: WR3M and WR3000M**

### **TECHNICAL BULLETIN**

#### **“CALIBRATION”**

**Weller® Soldering Systems are designed and manufactured to strict quality specifications. Calibration is not a requirement due to the use of Microprocessor Temperature Control. Unlike conventional technologies which required the use of Potentiometers (Pots) to make adjustments to the control parameters for Analog circuitry, the Weller® WR3M Series of Rework Systems provide the use of stored Microprocessor control parameters that do not require adjustments.**

**The use of precision Platinum (RTD – Resistance Temperature Detector) Sensors (WP80 / WSP80 / WMP, etc.) and Type “K” Thermocouple Sensors (WMRP / WMRT / WMRP-MIL / WMRT-MIL) in the Soldering Handpieces, constitutes extremely long life while providing highly accurate temperature readings.**

**Weller® WR3M Series Rework Systems meet or exceed the Temperature Stability Requirements for MIL-STD-2000 ( $\pm 10^{\circ}$  F /  $\pm 6^{\circ}$  C) and IPC / EIA J-STD-001C / D – Appendix A / B ( $\pm 9^{\circ}$  F /  $\pm 5^{\circ}$  C) for the idle tip temperature. These requirements address the capability of the soldering system to control the Stability of the soldering iron’s tip temperature under an idle condition (not under a load or heat sink condition such as Contact Measurement devices).**

**Weller® also states an individual manufacturer's specification for Temperature Accuracy. A standard "Out of the Box" Accuracy Tolerance of  $\pm 2\%$  of the station setting (850° F Maximum Setting =  $\pm 17^\circ$  F) is provided.**

**Additionally, for the convenience of customers who may demand an even greater accuracy requirement, Weller® offers a Tip Temperature "Offset" Feature that allows the individual customer the capability of "fine tuning" the actual tip temperature to a much closer tolerance. The "Offset" Feature is not a Requirement for Calibration, but is instead an avenue for providing a greater means of accuracy, should it be desired.**

**If an "Offset" is installed into a Weller® Soldering System, the Model WR3M Series Rework Stations can be "Reset" to the Factory Default Values by initiating the "Factory Setting Enabled" ("FSE") feature of the station (see Instruction Manual for Reset procedure).**

**Note: Tip Temperature Accuracy depends greatly on the method of measurement used. We recommend the use of the Weller® Model WA2000 Soldering Tool Analyzer for temperature accuracy or stability. Weller® also recommends the use of a Welded Thermocoupled Tip Assembly for the highest degree of accuracy. Consult your nearest Weller® representative or distributor for more details on model numbers and availability.**

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