



A Leader in Electric Motor Testing

Tip Of The Week

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All Ovens Are Not Created Equal

Electric Motor Repair facilities are generally equipped with burnout ovens and bake ovens. It is important for you to know the difference and how one or the other or both play a role in your motor rewind process. In the “good ol’ days” the old windings would be burned out of the core using a direct fire oven or sometimes even an open pit bonfire. Boy have times changed. Now with the attention placed on maintaining a high efficiency motor to minimize the use of electric energy and impact on the environment, a much more strict approach is required. Today burnout ovens (sometimes referred to as roasting ovens) offer precision temperature performance up to 750° F (400°C) through fuel and water quenching controls. Using a magnetic part temperature probe the temperature controller can prevent a flame from igniting on or near the core thereby minimizing core damage. Once the motor has been rewound a bake oven (sometimes referred to as a curing oven) with its own temperature controller can be set in accordance with the varnish/resin manufacturer’s instruction.

According to the Motor Repair Shop Assessment Practices course presented by Richard Love Associates (<http://www.pdma.com/PdMA-training.php>), if you are receiving anything less than the performance described above you may not be dealing with an accredited service center.

You are invited to submit an Electric Motor Testing Tip of your own and receive a free PdMA® mug or hat if we publish it! Contact Lou at 813-621-6463 ext. 126 or lou@pdma.com.

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