

Run capacitors have two functions in Power Climber hoists. The primary function of a run capacitor is to lower the amp draw of a hoist in the UP direction. The secondary function of a run capacitor is to help in the controlled descent feature of these hoists.

Depending on the operation being performed on any given hoist will determine the type of symptoms exhibited by a bad run capacitor. If the hoist is being run in the up direction for a prolonged period with a bad run capacitor, it may be possible to detect increased heat in the motor. On the test stand in your shop a bad run capacitor can be noticed by an increase of 3-4 amps above the normal up amp draw.

During the operation of controlled descent, a hoist with a bad run capacitor will tend to descend faster than the normal controlled descent speed. If the speed is too fast, the overspeed brake assembly will activate and prevent downward travel.

### **Inspection Procedure**

- Visual inspection of a run capacitor is one inspection to evaluate condition.
- With a multi-meter that can check for microfarads ( $\mu\text{f}$  or  $\text{mf}$ ) it is possible to determine condition, when obvious signs are not present.
- Without a meter that can check for  $\text{mf}$ , try replacing the suspected capacitor with a known good capacitor and check for normal operation.

*Corrective actions:* Replace damaged or non-working parts as required. Make sure all electrical connections are secure.

For questions or comments, contact Customer Service at 1-800-560-CLIMB (2546) or [customerservice@safeworks.com](mailto:customerservice@safeworks.com).