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BULLETIN # 225

## GENERAL

### FAN005 CAPACITOR FAILURE

There have been some failures of the start capacitor which is supplied as part of the FAN005 cooling fan used on Weldmatic 3 phase MIG welders. When this capacitor fails it can cause the fan motor to have difficulty starting. In extreme cases, one or more of the motor windings may fail as a result.

Replacement capacitors are now available so that the capacitor may be replaced by itself in the event that only the capacitor fails.

If there is no damage to the fan windings (they read approx. 1,300 to 1,500 ohms when they are good), then replacing the capacitor alone will remedy the problem.

#### **Recommended action in the event of a FAN005 not starting, or starting slowly.**

Check the fan windings – each winding should read approx. 1,300 to 1,500 ohms. If there is a fault with a fan winding, replace the complete fan assembly, part number FAN005.

If the windings are correct, cut one of the capacitor leads and check the capacitor. A good capacitor will read approx. 0.8 uF. Typical readings for capacitors which cause poor motor starts are in the order of 0.2 uF or less.

If the capacitor reads low, but the motor windings are good, then replacing the capacitor by itself is all that is required. Contact WIA Technical Service Coordinator for supplies.

Hugh Stewart,  
Technical Service Coordinator

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**QUALITY WELDING PRODUCTS, SYSTEMS AND SERVICES**

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