

# **B & C Specialty Products Inc**

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## **Manufacturer of Lightweight Electrical Systems**

### **Instructions for Continued Airworthiness for**

### **B&C Specialty Products Model BC315 Starters**

The B&C Specialty Products BC315 series starters for Lycoming engines require no recurrent maintenance during the service life of the starter. At 2000 hours time in service it is suggested that the starter be returned to the factory for evaluation or overhaul if necessary.

During routine airframe/engine inspections the electrical connections to the starter should be checked for cleanliness and security. Inspect the starter pinion and engine ring gear for excessively worn, broken or missing gear teeth. If any of these are found, the starter should be returned to the factory for evaluation or repair.

Unusually harsh operating conditions such as improperly timed magnetos that cause kick-backs during starting or sticking starter relays or keyswitches which cause the starter to remain engaged while the engine is running may cause premature starter failure. Existence of these conditions should prompt corrective action and close inspection for possible starter damage.

Pilot complaints of poor starter performance should be diagnosed by measuring the voltage applied directly across the starter motor during cranking. The voltage should be 8 to 9 volts to give proper performance. Voltage measurements less than this value point to problems in the starting circuit other than the starter. Voltages equal to or greater than 9 volts across the starter with poor starter performance indicate the need for starter inspection/repair.