

American Champion Aircraft Corp.  
Rochester, WI 53167

Service Letter: 423

Date: March 8, 2004

Title: Optional 8KCAB Normal Category Gross Weight Increase

Models: 8KCAB aircraft serial numbers 643-91 and later or any serial number that has 7-1535 wing frames or 7-1521 covered wing frames and an AEIO-360-H1A or AEIO-360-H1B engine installed.

Description: Retrofit of aircraft with 4-2035 aluminum gear legs or 4-2038 steel gear legs allows for Normal Category operations up to a gross weight of 1950 lbs. Normal Category operations are restricted to + 3.8g and -1.52g limit loads. The Acrobatic Category envelope remains unchanged; the limit loads remain +6.0g and -5.0g at weights below 1800 lbs.

Required Steps:

1. Retrofit with 4-2035 aluminum gear legs per ACAC service letter 422 or install 4-2038 steel gear legs per ACAC drawing 7-1307 (rev. M or later). Gear leg serial numbers should be recorded in an aircraft logbook entry.
2. Update accelerometer range markings as follows:

Green Arc	-1.52 to +3.8
Yellow Arcs	-5.0 to -1.52 and +3.8 to +6.0
Red Radial Lines	-5.0 and +6.0
3. Replace 1-10613 with 1-10613-1 placard.
4. Add flight manual supplement, dated 10-15-2003, to existing flight manual.