



US Department of Transportation
Federal Aviation Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020
11/30/2007

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N234HB	Serial No. 692-92	
	Make American Champion	Model 8KCAB	Series
2. Owner	Name (As shown on registration certificate) All Aviation LLC	Address (As shown on registration certificate) Address P.O. Box 1915	
		City Issaquah	State WA
		Zip 98027	Country USA

3. For FAA Use Only

The technical data identified herein has been found to comply with applicable airworthiness requirements and is hereby approved for use only on the above described aircraft, subject to conformity inspection by a person in FAR 43.7

06/16/08
DATE
FAA Inspector, NM-FSDO-01

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME		(As described in Item 1 above)	
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
Name	Terry Burch	<input checked="" type="checkbox"/>	U. S. Certificated Mechanic		Manufacturer
Address	17512 31st Dr NW	<input type="checkbox"/>	Foreign Certificated Mechanic		
City	Arlington State WA	<input type="checkbox"/>	Certificated Repair Station		
Zip	98223 Country USA	<input type="checkbox"/>	Certificated Maintenance Organization		AP2751427

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual 06/16/08
--	---

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is Approved Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station <input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)

Certificate or Designation No. 1766537	Signature/Date of Authorized Individual 6-16-2008
---	--

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N234HB

Nationality and Registration Mark

Date

Aircraft make and model: American Champion Super Decathlon 8KCAB

Installed Smoking Airplanes, model SA-201, smoke system as a complete kit as supplied by Smoking Airplanes. The oil tank and electric oil pump are self contained and mounted on the floor of the baggage compartment. Oil is pumped through an Aero quip 305-4 hose under the floor boards to the panel. The oil hose then routes through the left side firewall via an AN bulkhead fitting to a stainless steel exterior braided Teflon hose. This hose attaches to the injector fitting that is clamped to the exhaust stack. The oil pump obtains its power from a 15 amp circuit breaker switch. The breaker switch power wire is attached to the main bus. The red LED light mounted in the control panel illuminates any time the CB switch is turned on.

The tank/pump unit is mounted to the aft baggage floor at fuselage station 70. A tank mounting bracket was welded together using 5/8X.058 4130 steel tubing. .050 4130 plates were welded to the tube frame for attaching the tank with ¼ drilled head bolts. The 2 front attach points on the mounting bracket bolt to the rear seat aft attach points with ¼ AN bolts. The rear two attach points of the mounting bracket attach via 4130 steel clamps to the 7/8" V brace in the baggage compartment. The tank is mounted to the bracket with bolts as well as two tie down straps across the tank and around the tube frame. The Bracket and smoke system is installed in such a way that it will not interfere with removal or replacement of the ELT or any aspect of the ELT. The smoke oil tank weight and tube frame mounting bracket are supported by the floor. This installation conforms to AC43.13-2A, chapter 1.

The electrical system employs aircraft approved wire, circuit breaker, connectors, etc. from the bus to the tank/pump unit. All routing, connections, wire size, etc. conforms to AC43, 13-2A chapter 11, section 2 and 3, Electrical load limits are not a factor due to this being an intermittent load.

Smoking Airplanes Installation and operations manual was strictly adhered to in all aspects of the installation. A copy of this manual is included with the 337 packet.

The removal and reinstallation of this unit requires a logbook entry in accordance with FAR 43, and shall be accomplished by properly certificated personnel, holding at least an airframe certificate. The weight and balance and equipment list must be updated accordingly and each re-installation must comply with the install manual and all applicable Instructions for Continued Airworthiness (ICA's).

The intent of this unit is to provide assistance to other aircraft in a flight through rural country for visual identification of other aircraft. It is not approved for any other purposes other than operational testing.

Incorporated in Smoking Airplanes installation and operations manual are the operating instructions that must be present in the aircraft. A copy of this is attached.

Instructions for Continued Airworthiness are incorporated in the Smoking Airplanes manuals part of the installation and operating instructions as well an additional ICA attached to this document (page 3).

Weight and Balance and equipment list is amended.

This is a one time approval for this aircraft only.

Page 2 of 4

Additional Sheets Are Attached