



US Department of Transportation  
Federal Aviation Administration

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

Form Approved  
OMB No. 2120-0020  
2/28/2011

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)).

<b>1. Aircraft</b>	Nationality and Registration Mark <b>N80461</b>	Serial No. <b>7EC-743</b>	
	Make <b>Champion</b>	Model <b>7EC</b>	Series
<b>2. Owner</b>	Name (As shown on registration certificate) <b>Bremer Wilfred P</b>		Address (As shown on registration certificate) Address <b>2617 E Lawn Ct</b>
			City <b>Madison</b> State <b>WI</b> Zip <b>53704-5023</b> Country <b>USA</b>

### 3. For FAA Use Only

The data identified herein complies with the applicable airworthiness requirements and is approved for the above-described aircraft. Subject to conformity inspection by a person authorized in CFR 43, section 43.7. Milwaukee FSDO GL-13

Digitally signed by Connie A  
Martin  
Location: GL-13  
Date: 2020.06.02 07:47:10 -05'00'

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 <b>Mark Henry Unertl</b>		<input checked="" type="checkbox"/> U. S. Certificated Mechanic		<b>A&amp;P 3114866 IA</b>
Address <b>N2577 Ottman Dr.</b>		<input type="checkbox"/> Foreign Certificated Mechanic		
City <b>Waupaca</b> State <b>WI</b>		<input type="checkbox"/> Certificated Repair Station		
Zip <b>54981</b> Country <b>USA</b>		<input type="checkbox"/> Certificated Maintenance Organization		

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 <b>Mark Henry Unertl</b>
--	---

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

Certificate or Designation No. <b>A&amp;P 3114866 IA</b>	Signature/Date of Authorized Individual <b>Mark Henry Unertl</b>
---	---

## 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.)

N80461

Nationality and Registration Mark

Date

1. Introduction: Installed Grove Aircraft Landing Systems Inc. Champ Wheels & Brakes in accordance with Grove Drawing No. 28-4025B Titled Champ Wheel & Brake Rev IR dated 3/12/2020. Grove model 29-10 10C Brake Assy & model 61-1001A Alum Wheel Assy are both TSO Approved. The wheel size is 600X6 type III & has a static load rating of 1250 lb. & is appropriate for the 7EC.

2. Description: Removed existing wheels & brakes. Installed Grove Model 61-1001A Aluminum wheels and Model 29-1010C Brake assemblies provided by Grove Aircraft Landing Systems Inc. using Grove installation instructions for Wheels & Brakes. Retained original Scott Aviation heal brake master cylinders Model # B711 and brake lines for this installation.

Referenced Grove Drawing No. 28-4025B Titled Champ Wheel & Brake Rev IR dated 3-12-2020

Aircraft Equipment list updated. Aircraft weight & balance revisited and created a new calculated weight & balance.

3. Control, operation information: No special instructions required.

4. Servicing information: Refer to groveaircraft.com Grove documents Wheel Assembly inspection & maintenance. Brake Caliper Inspection & Maintenance.

5 Maintenance instructions: Refer to groveaircraft.com Grove documents Wheel Assembly inspection & maintenance. Brake Caliper Inspection & Maintenance.

6. Trouble shooting information: See web site groveaircraft.com brake trouble shooting.

7. Removal & replacement information: Refer to Grove documents Wheel Assembly inspection & maintenance. Brake Caliper Inspection & Maintenance.

8. Diagrams: No special diagrams for inspection.

9. Special inspection requirements: N/A

10. Application of protective treatments: N/A

11. Data: All fasteners AN or MS.

12. List of special tools: No special tools.

13. For commuter category aircraft: N/A

14: Recommended overhaul periods: No additional overhaul time limitations.

15. ALS: No additional airworthiness limitations.

16. Maintenance information: Maintenance and inspection updated Grove Aircraft Landing Gear Systems Inc.. groveaircraft.com, Champion 7EC service manual, AC 43.13-2 appendix D & Refer to document .





# Federal Aviation Administration

---

## Memorandum

Date: May 28, 2020

From: *TS* Tim Smyth, Manager, Chicago Aircraft Certification Branch *Scott Fohrman*

To: Manager, Milwaukee Flight Standards Office  
(Attention Inspector Connie Martin)

Prepared by: Scott Fohrman, (847) 294-7136

Subject: Request for Engineering concurrence with the installation of a Grove Brake System on a American Champion 7EC aircraft, Registration Number N80461, S/N 7EC-743

---

This is in response to your email in which you requested ACO engineering concurrence with the installation of a Grove Brake System on subject American Champion 7EC aircraft. Engineering notes that this system consists of Grove Model 61-1001A Aluminum wheels and Model 29-20-20C Brake assemblies, with the original master cylinders being retained.

Chicago ACO has reviewed the request, including evidence of past successful installations on similar sized aircraft. We concur that the requested alteration meets the certification basis of the aircraft and a Field Approval may be granted. The applicant should be directed to perform as post maintenance check flight as required by 14 CFR 91.407 to insure that the alteration has not appreciably changed the aircrafts ground handling characteristics or substantially affected its operation. The successful completion of the flight should be documented in the aircrafts maintenance records.

This concurrence is limited to the alterations detailed and the listed serial number aircraft only and may not be extended to additional aircraft without written permission from this office.

Please be aware that the ACO limited it's review to determining that a field approval was permissible under the guidance specified in FAA Order 8300.16, Chapter 3, paragraph 2 c. (1), Major Repair and Alteration Data Approval Job Aid, the evidence of past successful installation documented on the included FAA Form 337 and the applicants FAA Form 337. If further review of the data is requested, please contact us.

If you have any questions, please contact Scott Fohrman at (847) 294-7136.