



U.S. 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

NM07-SLC-FSDO

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act 1958)

1. Aircraft	Nationality and Registration Mark N3576T	Serial No. F-042	
	Make TAYLORCRAFT	Model F19	Series
2. Owner	Name (As shown on registration certificate) RANWEILER, JOHN L	Address (As shown on registration certificate) Address P.O. BOX 2118 City EL PRADO State NM Zip 87529-2118 Country U.S.A	

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 § 43.7.

David C. Lynn **08/26/2009**
Inspector, NM-FSDO-07 Date

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
☐	☒	AIRFRAME		(As described in Item 1 above)	
☐	☐	POWERPLANT			
☐	☐	PROPELLER			
☐	☐	APPLIANCE	Type Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name Timothy Popp Address 415 Highland Dr. City Riverdale State UT Zip 84405 Country U.S.A.		☒ U.S. Certificated Mechanic	☐ Manufacturer
		☐ Foreign Certificated Mechanic	C. Certificate No.
		☐ Certificated Repair Station	393705201
		☐ 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 ☐	Signature/Date of Authorized Individual
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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	Person Approved by Canadian Department of Transport
	FAA Designee	Repair Station	☒ Inspection Authorization	Other (Specify)

Certificate or Designation No. 393705201	Signature/Date of Authorized Individual
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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.)

N3576T

26 Aug. 2009

Nationality and Registration Mark

Date

1) Removed original battery box, cable and contactors from baggage area. Mounted new FAA PMA part# 180185L battery box supplied by Burls Aircraft Rebuild, Chugiak, AK (907) 688-3715 on forward side of firewall on the right side (see attached diagram). Battery box installed I.A.W. Burl's Aircraft, LLC drawing # [180185L/S/HS Install, Cessna] and installation Instruction No. 180185LS-HS.

2) This installation meets CAR 3 installation requirements in this configuration and is STC'd on Rogers 15AC aircraft for mounting on the firewall I.A.W. Rogers STC# SA302NW. This installation is similar to Taylorcraft F-19 N3572T with the exception of using PMA'd parts and the mounting of master contactor on firewall instead of on the box.

3) Relocated original master contactor to the firewall adjacent to the battery. Fabricated new battery cables using #2 gauge milspec wire M22759/16-2 and crimp on fittings. Electrical configuration is identical to the original factory configuration. All wiring done in accordance with AC 43.13-1B, Chapter 11, Section 6 (Aircraft Electrical Wire Selection), Section 7 (Table of Acceptable Wires), Section 8 (Wiring Installation Inspection Requirements), Section 11 (Clamping) and Section 15 (Grounding and Bonding) and CAR3, paragraph 3.693 (Electrical Cables).

4) Installed new sealed lead acid, Hawker PMA battery SBS J16, p/n 0769-4005 in battery box and protected it with the heat shield provided by battery box manufacturer. Replacement battery meets CAR3 requirements, paragraph 3.682 (Batteries), 3.683 (Protection against acid) and 3.684 (Battery vents) for installation on the firewall. Battery is non-venting recombinant gas type.

5) Static structural load tests were performed by Burl's Aircraft, LLC and witnessed by Anchorage ACO engineer David Schwartz and was determined to meet static loading requirements for installation on firewall. Pull tests were performed on battery installed in battery box and exceed CAR 3 requirements and AC 43.13-2B Table 1-1 (75 lbs sideways, 75 lbs up, 125 lbs foreword, and 100 lbs down).

6) Weight and balance computed, log book entry made, equipment list updated.

7) Instructions for continued airworthiness provided by Burl's Aircraft LLC. and will be kept with aircraft maintenance records.

8) Picture below is typical representation of installation location and is from Taylorcraft F-19 N3572T serial # 033.



END

☒ Additional Sheets Are Attached

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

A/C Make Taylorcraft Model: F19 S/N: F-042 Reg. #: N3576T

Revision: 1.0

Date: 26 Aug. 2009

SYSTEM: Electrical

ITEM	Subject
1.	Introduction: Installation of Burls Aircraft Rebuild battery box, heat shield and Hawker SBS J16 battery on the right side of firewall and relocation of the master contactor near the battery. Comments:
2.	Description: Installed Burls Aircraft Rebuild battery box (Part #180185L) and heat shield on right side of firewall in accordance with installation instruction number 180185LS-HS and moved contactor to slightly above and to the right side of box. Replaced 25 amp hour lead acid battery with Hawker SBS J16 recombinant gas battery. Comments:
3.	Control: NA. Comments:
4.	Servicing information: Per battery manufacturer recommendations. Comments:
5.	Maintenance Instructions: Per battery manufacturer recommendations. Comments:
6.	Trouble shooting information: NA. Comments:

7.	Removal and replacement information: Removal and installation is the same as original Taylorcraft battery installation. Comments:
8.	Diagrams: NA. Comments:
9.	Special inspection requirements: NA. Comments:
10.	Application of protective treatments: NA. Comments:
11.	Data: Battery box and heat shield installed per instruction number 180185LS-HS. Battery terminals torqued to battery manufacturers instructions that came with battery. Comments:
12.	List of special tools: 10mm socket to torque battery terminals. 0-200 inch pound torque wrench. Comments:
13.	For commuter category aircraft: NA. Comments:
14.	Recommended overhaul periods: NA. Comments:
15.	Airworthiness Limitation Section: No additional airworthiness limitations. Comments:
16.	Revision: A letter will be submitted to the local FSDO with a copy of the revised FAA Form 337 and revised ICA. The FAA inspector accepts the change by signing Block 3 and including the following statement: "The attached revised/new Instructions for Continued Airworthiness (date) for the above aircraft or component major alteration have been accepted by the FAA, superseding the Instructions for Continued Airworthiness (date)." Once the revision has been accepted, a maintenance record entry will be made, identifying the revision, its location, date of the Form 337. Comments: