

**FAA-APPROVED
AIRPLANE FLIGHT MANUAL SUPPLEMENT
FOR
STC SA10682SC**

**INSTALLATION OF
Belt Driven Alternator Conversion
SAL 12-70C, SAL 12-70**

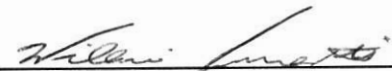
For Aircraft Make & Model
Listed on Plane Power Alternator Conversion
Approved Model List (AML)

Registration No: _____

Serial No: _____

This supplement must be attached to the appropriate FAA Approved Airplane Flight Manual when the aircraft is modified in accordance with STC SA10682SC. The information contained herein supplements or supersedes the Airplane Flight Manual only in those areas listed herein. For limitations, procedures and performance information not contained in this supplement, consult the Airplane Flight Manual.

FAA APPROVED



for: Steven L. Lardinois, Manager
Systems and Flight Test Branch,
ACE-117C

Chicago Aircraft Certification Office
2300 E Devon Ave,
Des Plaines, IL 60018

Original Issue Date: July 25, 2007

List of Effective Pages

Use the page to determine the current effect date for each page in this supplement. This supplement is controlled by this page.

When updating this supplement to a later FAA Approved revision level, remove the current List of Effective page and Log of Revision page and the pages to be replaced and insert the newly revised pages.

PAGE	REV	DATE	PAGE	REV	DATE
Cover	1	May 18, 2015			
ii-iii	1	May 18, 2015			
iii-iii	1	May 18, 2015			
1-1	1	May 18, 2015			
1-2	1	May 18, 2015			
1-3	1	May 18, 2015			
2-1	1	May 18, 2015			
3-1	1	May 18, 2015			
4-1	1	May 18, 2015			
5-1	1	May 18, 2015			
6-1	1	May 18, 2015			
7-1	1	May 18, 2015			
8-1	1	May 18, 2015			

Log of Revisions

Rev	Description	Page	Approved by	Date
- -	Original Release	1-13	SEE COVER PAGE	7/25/2007
1	Change Name to HET all Pages. General, change Qty from 2 to 1, remove last sentence from 2nd para. Applied single alternator info to Emergency Procedures, Title, steps 2, & 3. Modify Normal Procedures para.	1 thru 13 1-3 3-1 4-1	SEE COVER PAGE	JUL 20 2015

Forward

This Airplane Flight Manual Supplement (AFMS) presents changes associated with the installation of Belt Driven Alternator Conversion kits, SAL 12-70C, and SAL 12-70.

Important Notice

This supplement to the Airplane Flight Manual should be read carefully by the owner and/or operator in order to become familiar with the operation of the airplane. It contains limitations, operating procedures, performance information, and systems descriptions that are essential information for the pilot to properly operate the Make and Model aircraft that have been modified in accordance with STC SA10682SC. As specified, this supplement must accompany the basic Airplane Flight Manual and be available to the pilot at any time during flight. If a section has not been provided in this document, then refer to the basic Airplane Flight Manual.

Sections

This supplement is divided into the following sections:

Section 1 General

Section 2 Limitations

Section 3 Emergency Procedures

Section 4 Normal Procedures

Section 5 Performance Data

Section 6 Weight and Balance

Section 7 Airplane and Systems Description

Section 8 Handling, Servicing and Maintenance

Revising This AFM Supplement

Each time this supplement is revised or reissued, a new Log of Revisions page is provided along with the pages containing corresponding data or changes. In the footer of each page is shown the approval date and revision letter (when applicable). When updating this supplement to a later FAA Approved revision level, remove the Log of Revision page and the pages to be replaced and insert the new Log of Revision page and revised pages. That portion of text or an illustration, which has been revised by the addition of, or change in, information is denoted by a solid revision bar located adjacent to the area of change, and placed along the outside margin of a page. Revision bars show only information changed within latest revision.

Section 1 General

The alteration to the aircraft was performed using a kit that includes (1) alternator, (1) alternator mounting kit, (1) ALT INOP placard, (1) ALT FIELD placard, (1) regulator, (1) alternator inoperative lamp, and installation instructions to replace generator on single engine aircraft which are listed in the Approved Model List of STC SA10682SC.

The alternators and associated regulators will provide increased output at low engine RPM over that of the original generators.



**Section 2
Limitations**

Unchanged.



Section 3 Emergency Procedures

Battery discharging indication or ALT INOP lamp illuminated.

1. Reduce electrical load.
2. Check alternator field circuit breaker
 - A. If tripped, turn off ALT FIELD switch and reset breaker.
 - B. Turn on ALT FIELD switch.
 - C. If breaker trips again, turn off ALT FIELD switch and land as soon as practical.
3. Check alternator output circuit breaker.
 - A. If tripped turn off ALT FIELD switch and reset breaker.
 - B. Turn on ALT FIELD switch.
 - C. If breaker trips again, turn off ALT FIELD switch and land as soon as practical.

Section 4 Normal Procedures

After turning on MASTER switch and before starting engines, verify that the ALT INOP lamp is illuminated. After starting engines, switch the ALT FIELD switch on. Observe battery charging indication and that the ALT INOP lamp is not illuminated.

**Section 5
Performance Data**

Unchanged.

Section 6 Weight and Balance

There are no changes to the aircraft weight limits or center of gravity (CG) limits. See the basic Airplane Flight Manual for weight and center of gravity information.

The Equipment List / Weight and Balance Record are revised by the STC installer for installation of this Belt Driven Alternator Conversion. For current empty weight and CG, see revised weight and balance record.

Section 7
Airplane and Systems Description

The installed alternator conversion kit provides up to a maximum of 70 amps at the rated voltage, limited by current wiring and breakers.

Section 8
Handling, Service, and Maintenance

The basic AFM is unchanged. See Instructions for Continued Airworthiness provided with this installation for details on inspections and maintenance.