United States of America
Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number: SA3027SO

This certificate, issued to Basic Aircraft Products, Inc.
4474 Hickory Drive
Evans, GA 30809
certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 23 of the Civil Air Regulations:

Original Product — Type Certificate Number: A-696
Make: Aircraft Acquisition Corp. (Taylorcraft)
Model: BC12-D


Limitations and Conditions: This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will produce no adverse effect upon the airworthiness of that airplane. FAA Approved Airplane Supplementary Flight Manual, dated October 8, 1991, is a required part of this STC. This STC is applicable only to those model BC12-D aircraft without any existing electrical power.

Date of application: June 18, 1990
Date of issuance: October 8, 1991

This certificate may be transferred in accordance with FAR 21.47.
This Supplementary Flight Manual must be carried in the airplane whenever the Basic Model 1008 Air Driven Alternator is installed in accordance with Supplemental Type Certificate SA302750. The information contained in this document supplements or supercedes the airplane placards and markings only in those areas listed. For limitations, procedures and performance information not contained in this Supplementary Flight Manual, consult the basic airplane placards and markings.

I. LIMITATIONS: There are no aircraft limitations for the certified alternator installation.

II. PROCEDURES:
1. Preflight: Check rotation of the Impeller, which should spin freely. (NOTE: normal operation of alternator includes moderate starting torque and magnetic cogging.)
2. Starting: Alternator should begin rotation at approximately 1600 RPM engine speed.
3. Master Switch: Turn on Master Switch after engine start.
4. Taxi-out & Run-up: Maintain minimal electrical load.
5. Take-off & Cruise: Turn on desired equipment.
6. Maintenance: None required.
   CAUTION: Do not spray solvent or degreaser on alternator. This can cause bearing failure and damage electrical components. If cleaning is necessary, dampen cloth with cleaner and wipe surfaces to be cleaned.

III. PERFORMANCE: At engine cruise power setting, the alternator output is 7.0 +/- 1.0 amps at 14.0 +/- 0.5 Vdc.

FAA Approved

Manager, Aircraft Certification Office
Federal Aviation Administration
Atlanta, GA

Date OCT 8 1991
MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

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.

1. AIRCRAFT
   - MAKE: Taylorcraft
   - MODEL: BC-65
   - SERIAL NO.: 2000
   - NATIONALITY AND REGISTRATION MARK: N 26658

2. OWNER
   - NAME: Uteg, Francis F.
   - ADDRESS: 903 Washington Drive
     Fairhope, Ala. 36532

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION

<table>
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<tr>
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<th>MAKE</th>
<th>MODEL</th>
<th>SERIAL NO.</th>
<th>REPAIR</th>
<th>ALTERATION</th>
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5. TYPE

- MAKE  | MODEL  | SERIAL NO. | REPAIR | ALTERATION |
-       |        |            |        | X          |

6. CONFORMITY STATEMENT

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.

DATE: July 1, 1989
SIGNATURE OF AUTHORIZED INDIVIDUAL:

7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is X APPROVED [ ] REJECTED

<table>
<thead>
<tr>
<th>BY</th>
<th>MANUFACTURER</th>
<th>INSPECTION AUTHORIZATION</th>
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<tr>
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<td>REPAIR STATION</td>
<td>CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT</td>
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DATE OF APPROVAL OR REJECTION: July 1, 1989
CERTIFICATE OR DESIGNATION NO.: 18903
SIGNATURE OF AUTHORIZED INDIVIDUAL: Edward L. Harter
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.)

Installed Air Driven Generator - Prestolite p/n 141, Regulator p/n 137 and propeller p/n 139 and mount p/n 140 as per engineering drawing attached except for a modification to the attach fitting to accommodate to Taylorcraft. Structural members are numbered according to Taylorcraft Model B Manual station diagram. Mount tested to 50 lb. rearward force with no distortion or movement of the support tube.

Fabricated battery box of 2024 alum. per attached sketch to hold 12 volt ESB Model 12-1-J-10 manifold vented, non-spill battery and a bracket to support the Prestolite V-80-4201-AR 12 volt-10Amp Voltage Regulator.
TYPICAL MOUNTING FABRICATIONS

1. HARDWARE & PLATES, ETC., FROM MATERIAL, HAND SIGNED DOWN, AND GROUND TO STRADDLE LOUVER & PLATES.

2. HARDWARE FROM MATERIAL, HAND SIGNED DOWN, AND GROUND TO STRADDLE LOUVER & PLATES.

3. HARDWARE FROM MATERIAL, HAND SIGNED DOWN, AND GROUND TO STRADDLE LOUVER & PLATES.

TYPICAL CUR SERIES MOUNT

TYPICAL AERONCA SERIES MOUNT

TYPICAL LUCAS MOUNT - SHOWN FOR REFERENCE - SHEET B/29457

TYPICAL AERONCA SERIES MOUNT

TYPICAL LUCAS MOUNT - SHOWN FOR REFERENCE - SHEET B/29457
### Major Repair and Alteration
(Airframe, Powerplant, Propeller, or Appliance)

**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.

1. **AIRCRAFT**
   - **MAKE:** Taylorcraft
   - **MODEL:** BC-65
   - **SERIAL NO.:** 2000
   - **NATIONALITY AND REGISTRATION MARK:** US N26658

2. **OWNER**
   - **NAME (As shown on registration certificate):** Francis F. Utleg
   - **ADDRESS (As shown on registration certificate):** 300 Wild Heron Dr, St. Simons Island, Ga 31522

3. **FOR FAA USE ONLY**

4. **UNIT IDENTIFICATION**

<table>
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<th>TYPE</th>
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5. **TYPE**

   - **REPAIR**
   - **ALTERATION**

6. **CONFORMITY STATEMENT**

   A. **AGENCY'S NAME AND ADDRESS:**
      - J. Max Bradley
      - 102 Cater St.
      - St. Simons Island, Ga 31522

   B. **KIND OF AGENCY:**
      - U.S. CERTIFICATED MECHANIC
      - FOREIGN CERTIFICATED MECHANIC
      - CERTIFICATED REPAIR STATION
      - MANUFACTURER

   C. **CERTIFICATE NO.:** 1708503

   D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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.

   **DATE:** December 15, 1992

   **SIGNATURE OF AUTHORIZED INDIVIDUAL:**

7. **APPROVAL FOR RETURN TO SERVICE**

   Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is **APPROVED** [ ] **REJECTED** [X]

   **BY**
   - FAA FLT. STANDARDS INSPECTOR
   - MANUFACTURER
   - XX INSPECTION AUTHORIZATION
   - OTHER (Specify)
   - FAA DESIGNEE
   - REPAIR STATION
   - CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT

   **DATE OF APPROVAL OR REJECTION:** 12-15-92

   **CERTIFICATE OR DESIGNATION NO.:** 1708503

   **SIGNATURE OF AUTHORIZED INDIVIDUAL:**

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**FAA Form 337 (7-67)**

**GPO: 1985 0-475-500**

**(8320)**
8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Installed Air Driven Alternator - Basic Aircraft Products Inc. - Part # 50-1008-101, Type BPE-14, Model 1008, Serial # 1028 as a direct replacement for the Bag Aero Wind Driven generator which was previously installed July 1, 1980. Alternator was installed per engineering drawings and in accordance with the supplemental flight manual provided by Basic Aircraft Products Inc. Installation was tested for 30 lbs. rearward force, 20 lbs. vertical force, 7-lbs. lateral force as specified with no distortion or movement of the support tube or alternator housing. STC # SA302750 dated October 8, 1991 is attached.

Weight and balance of the aircraft has been revised to reflect this installation.

END