

United States Of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**

*Number* SA00270BO

*This Certificate issued to* Paul G. Babcock  
1647 Main Street  
South Weymouth, MA 02190

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of \**

*Original Product Type Certificate Number:*

\*See attached Eligibility List for list of approved aircraft models and applicable airworthiness regulations.

*Make:*

*Model:*

*Description of Type Design Change:*

Installation of a Teledyne Continental A-65-8, A-65-8F, A-65-9, A-75-8, A-75-8F, A-75-9, C-75-8, C-75-12, C-85-8, C-85-12, C-90-8F or C-90-12F engine and corresponding propeller identified under Limitations and Conditions, and components for a landplane maximum gross weight of 1220 lbs., in accordance with STC SA00270BO Installation Instructions and Instructions for Continued Airworthiness, dated September 18, 2009, or later FAA-approved revisions.

*Limitations and Conditions:*

1. Paul Babcock Supplemental Airplane Flight Manual for Piper J3 series aircraft, dated October 29, 2009, or later FAA-approved revisions, must be carried in the aircraft during all flights.

See Continuation Sheet

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application:* October 9, 2007

*Date reissued:*

*Date of issuance:* October 29, 2009

*Date amended:*

*By direction of the Administrator*



(Signature)

Robert G. Mann  
Manager  
Boston Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

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ELIGIBILITY LIST

Piper Model	Approved Type Certificate Number	Certification Basis	Serial Numbers Eligible
J-3	660	Aeronautics Bulletin 7-A Amended October 1, 1934	1999 and up
J3C-40, J3C-50, J3C-50S, J3C-65, J3C-65S	A-691	CAR 4a Amended April 7, 1950	2325, 2327, 2340, 2342, 2344, 2345, 2347, 2349, 2351, 2355 and up, 2356A, 2357A and up, and 8277-1 through 8277-40.
J3F-50, J3F-50S, J3F-60, J3F-60S, J3F-65 (Army L- 4D), J3F-65S	A-692	CAR 4a Amended April 7, 1950	2325, 2327, 2340, 2342, 2344, 2345, 2347, 2349, 2351, 2355 and up, 2356A, 2357A and up, and 8277-1 through 8277-40.
J3P	695	CAR 04 Amended November 1, 1943	2325, 2327, 2339, 2340, 2342, 2344, 2345, 2347, 2349, 2351, 2355 and up.
J3L, J3L-S, J3L-65 (Army L-4C), J3L-65S	A-698	CAR 4a Amended April 7, 1950	2325, 2327, 2340, 2342, 2344, 2345, 2347, 2349, 2351, 2355 and up, 2356A, 2357A and up, and 8277-1 through 8277-40.

Limitations and Conditions cont'd:

2. This modification is to be maintained in accordance with STC SA00270BO Installation Instructions and Instructions for Continued Airworthiness, dated June 24, 2009, or later FAA-approved revisions.
3. Compatibility of this design change with previously approved modifications must be determined by the installer.

The specifications shown on the Approved Type Certificate for the eligible Piper J3 series aircraft remains applicable except:

Engine: Teledyne Continental A-65-8, A-65-8F, A-65-9

Engine Limits: All operations, 2300 r.p.m. (65 hp)

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- Propellers: A. Sensenich fixed pitch metal model M74CK. +21lb. (-53)  
Static r.p.m. at maximum permissible throttle setting:  
(a) Landplane: Not over 2250, not under 2050.  
(b) Seaplane: Not over 2250, not under 2100 (Edo 92-1400 or 60-1320 floats  
No additional tolerance permitted.  
Diameter: Not over 74 inches, not under 72.5 inches.
- or B. Beech (Roby) R-002-205 blades (A-65-8 and A-65-9 only) +15 lb. (-51)  
Pitch setting at 27 in. station: Low 13°, High 18.5°.
- or C. McCauley 1A90CF or 1B90CM +26 lb. (-51)  
Limits: Static r.p.m. at maximum permissible throttle setting:  
(a) Landplane and skiplane: Not over 2250, not under 1950.  
(b) Seaplane: Not over 2250, not under 2050 (Edo 92-1400 or 60-1320 floats only)  
No additional tolerance permitted.  
Diameter: Not over 74 inches, not under 72.5 inches.
- or D. Wood (fixed pitch). +9 lb. (-51)  
Limits: Static r.p.m. at maximum permissible throttle setting:  
(a) Landplane and skiplane: Not over 2300, not under 1950.  
(b) Seaplane: Not over 2250, not under 1930 (Edo 92-1400 or 60-1320 floats only)  
No additional tolerance permitted.  
Diameter: Not over 81 inches, not under 69.7 inches.
- Engine: Teledyne Continental A-75-8, A-75-8F, A-75-9
- Engine Limits: All operations, 2600 r.p.m. (75 hp)
- Propellers: A. McCauley 1A90 or 1B90 +21 lb. (-53)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2425, not under 1950. No additional tolerance permitted.  
Diameter: Not over 70 inches, not under 68.5 inches.
- or B. Wood (fixed pitch) +9 lb. (-51)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2425, not under 1950. No additional tolerance permitted.  
Diameter: Not over 70 inches, not under 68.5 inches.
- or C. Sensenich fixed pitch metal model M74CK-2. +21 lb. (-51)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2440, not under 2340. No additional tolerance permitted.  
Diameter: Not over 72 inches, not under 70 inches.
- Engine: Teledyne Continental C-75-8, C-75-12
- Engine Limits: All operations, 2275 r.p.m. (75 hp)
- Propellers: A. McCauley 1A90 or 1B90 +21 lb. (-53)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2100, not under 2000. No additional tolerance permitted.  
Diameter: Not over 74 inches, not under 72.5 inches.

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or B. Wood (fixed or adjustable pitch) +9 lb. (-51)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2100, not under 2000. No additional tolerance permitted.  
Diameter: Not over 74 inches, not under 72.5 inches.

Engine: Teledyne Continental C-85-8, C-85-12

Engine Limits: Takeoff, 2575 r.p.m. (85 hp)  
All other operations, 2525 r.p.m. (80 hp)  
Fuel: 80 minimum octane aviation gasoline  
Oil capacity: 4 ½ qts.

Propellers: A. Wood (fixed pitch) +9 lb. (-51)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2350, not under 1950. No additional tolerance permitted.  
Diameter: Not over 72 inches, not under 70 inches.

or B. McCauley 1A90CF or 1B90CM +21 lb. (-53)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2550, not under 1950. No additional tolerance permitted.  
Diameter: Not over 71 inches, not under 68.5 inches.

or C. Koppers F200/00-72D +30 lb. (-51)  
Eligible on landplane or skiplane only.  
Parts List Assembly No. 4369.  
Low pitch setting 12.7° measure at 24 in. station.  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2525, not under 2475. No additional tolerance permitted.  
Diameter: Not over 72 inches, not under 70.5 inches.  
Installation and operation must be accomplished in accordance with Koppers' "Installation Procedure and Operating Limitation" No. 29.5.

or D. Sensenich fixed pitch metal model M76AK-2. +24 lb. (-53)  
Static r.p.m. at maximum permissible throttle setting:  
Not over 2550, not under 1950. No additional tolerance permitted.  
Diameter: Not over 74 inches, not under 72.5 inches.

Engine: Teledyne Continental C-90-8F, C-90-12F

Engine Limits: Takeoff, 2475 r.p.m. (90 hp)  
All other operations, 2375 r.p.m. (80 hp)  
Fuel: 80 minimum octane aviation gasoline  
Oil capacity: 5 qts.  
Carburetor heat must be modified to provide required heat rise. (Comply with Piper Service Bulletin 84)

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- Propellers:      A. McCauley 1B90, 1A90      +21 lb. (-53)  
                              Static r.p.m. at maximum permissible throttle setting:  
                              (a) Landplane: Not over 2300, not under 1950.  
                              (b) Seaplane: Not over 2300; not under 2100 (Edo 92-1400 or 60-1320 floats only).  
                              No additional tolerance permitted.  
                              Diameter: Not over 71 inches, not under 69.5 inches.
- or                    B. Wood (fixed pitch).      +9 lb. (-51)  
                              Static r.p.m. at maximum permissible throttle setting:  
                              (a) Landplane: Not over 2300; not under 1950.  
                              (b) Seaplane: Not over 2300; not under 2100 (Edo 92-1400 or 60-1320 floats only).  
                              No additional tolerance permitted.  
                              Diameter: Not over 76 inches, not under 70 inches.

Maximum weight: 1220 lbs. landplane, 1300 lbs. seaplane.

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