

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

Number SA1241GL

This certificate issued to

McCauley Propeller Systems
7751 East Pawnee
Wichita, KS 67207

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 Part 3 of the Civil Air Regulations.

See Type Certificate Data Sheet 3A20 for complete certification basis.

Original Product-Type Certificate Number: 3A20

Make: Raytheon Aircraft Company

Model: C90, C90A and E90

Description of Type Design Change:

Installation of McCauley Propeller Systems propeller model 4HFR34C762/92LMA-4 in accordance with McCauley Technical Report No. 681, no revision, dated September 22, 1987 and McCauley Drawing No. D-60019, revised August 20, 1987, or later FAA approved revision.

Limitations and Conditions:

1. Compatibility of this design change with previously approved modifications must be determined by the installer.
2. FAA Approved Airplane Flight Manual for model C90 with Pratt & Whitney model PT6A-20A engine, C90 or C90A with Pratt & Whitney model PT6A-21 engine, or E90 with Pratt & Whitney model PT6A-28 engine, dated September 24, 1987, or later FAA approved revision, is required.

...continued on page 3 of 3...

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: March 4, 1987

Date reissued: July 19, 2006

Date amended: February 1, 1988

Date of issuance: September 24, 1987

By direction of the Administrator



(Signature)

Thaddeus D. Krolicki, Jr.
Manager, Propulsion Branch
Chicago Aircraft Certification Office

(Title)

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Limitations and Conditions (Continued):

- Aircraft specifications are the same as listed on Aircraft Specification Data Sheet No. 3A20

Propeller and Propeller Limits

2 McCauley 4HFR34C762 hubs with 94LMA-4 blades

Diameter: 90 to 89 inches

Propeller blade angle at 30 inches:

Flight Idle Stop: Flight idle propeller low pitch stop is set so that at 2000 RPM there shall be an indicated 580 ± 40 ft-lb torque corrected to sea level standard day.

Feathered: $+85.8^\circ \pm 0.3^\circ$

Reverse: $-10.0^\circ \pm 0.4^\circ$

Minimum propeller ground idle RPM for continuous operation shall not be less than 1100 RPM; however, propeller may be feathered on the ground and idled at rotation speeds below 600 propeller shaft RPM.

- 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.

...End...