

PREPARED BY _____
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APPROVED BY _____

McCAULEY ACCESSORY DIVISION
CESSNA AIRCRAFT COMPANY

REPORT TR 845

FAA APPROVED
AIRPLANE FLIGHT MANUAL SUPPLEMENT
FOR THE
BEECH A23-24, A24, A24R, B24R, C24R

Reg. No. _____

Ser. No. _____

STC No. SA496CH

GENERAL

The information in this supplement is FAA approved material and must be attached to the Pilot's Operating Handbook and FAA Approved Airplane Flight Manual when the McCauley B3D36C429/82NPA-6 propeller model is installed in accordance with McCauley STC approved data. The information contained herein supplements or supersedes the basic flight manual only in those areas listed. For limitations, procedures and performance information not contained in this supplement, consult the basic Pilot's Operating Handbook and FAA Approved Airplane Flight Manual.

FAA Approved _____

for
Charles L. Smalley, Manager
Systems and Flight Test Branch
Chicago Aircraft Certification Office

DATE: APR 03 1996

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LOG OF REVISIONS

<u>Revision Number</u>	<u>Revised Pages</u>	<u>Description of Revision</u>	<u>Date</u>	<u>Approval</u>
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NOTE: All changes are indicated by black vertical line along the left margin.

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I. Limitations

Propeller: McCauley Constant Speed
B3D36C429/82NPA-6

Number of

Blades: 3

Blade Angles: At 30" station: low 10.5°, high 33.8°

Diameter: 76 inches maximum
75 inches minimum repair

Spinner: McCauley D-7290

Propeller

Operating

Limits/Placard: On the instrument panel, in the vicinity of the manifold pressure gauge:

**"Avoid continuous operation below
15" M.P. when above 100 mph.
Avoid continuous operation at or
above 26" M.P."**

Power Plant

Instrument

Markings:

Tachometer

Engine Warm-up

800 TO 1200 RPM (A24R Only)

Green Arc - (Normal operating) 2350 to 2700 RPM (C24R)

2200 to 2700 RPM (A23-24, A24, A24R, B24R)

Radial Red Line - (Rated) 2700 RPM

II. Procedures

No Change

III. Performance

No Change

Equipment List/Weight and Balance Record

Equipment List/Weight and Balance Record revised by STC installer for removal of existing propeller and addition of McCauley propeller.

FAA APPROVED

DATE APR 03 1996

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

Number SA496CH

This certificate issued to McCauley Propeller Systems
[Redacted]
Wichita, KS [Redacted]

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations. See Type Certificate Data Sheet No. A1CE for complete certification basis.

Original Product - Type Certificate Number : A1CE
Make : Beech
Model : A23-24; A24; A24R; B24R; C24R

Description of Type Design Change:

Installation of McCauley Propeller Model B3D36C429/82NPR-6 in accordance with McCauley Technical Report No. 844, no revision, dated January 15, 1996, and McCauley Drawing No. D-60165, no revision, dated April 1, 1996, or later FAA approved revisions.

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 Supplement, Technical Report No. 845, dated April 3, 1996, or later FAA Approved revision is required.

(See continuation sheet 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 : January 16, 1996

Date reissued : September 21, 2005

Date of issuance : April 3, 1996

Date amended :



[Redacted Signature]

(Signature)

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

(Title)

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of this Supplemental Type Certificate.

The FAA will reissue the certificate in the name of the transferee and forward it to him.

TRANSFER ENDORSEMENT

Transfer the ownership of Supplemental Type Certificate Number _____

to *(Name of transferee)* _____

(Address of transferee) _____
(Number and street)

(City, State, and ZIP code)

from *(Name of grantor)* *(Print or type)* _____

(Address of grantor) _____
(Number and street)

(City, State, and ZIP code)

Extent of Authority (if licensing agreement): _____

Date of Transfer: _____

Signature of grantor *(In ink)*: _____

United States of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number SA496CH

Date of Issuance: April 3, 1996

Reissued: September 21, 2005

Limitations and Conditions (Continued):

3. Aircraft Specifications are the same as listed on Type Certificate Data Sheet A1CE, except as follows:

Propeller and Propeller Limits

Propeller: McCauley Constant Speed B3D36C429/82NPA-6
Number of blades: 3
Blade Angles: At 30" station: Low 10.5 degrees, High 33.8 degrees
Diameter: 76 inches maximum
75 inches minimum repair
Spinner: McCauley D-7290

Propeller Operating Limits/Placard:

On the instrument panel, in the vicinity of the manifold pressure gage:

"Avoid continuous operation below 15" MP when above 100 mph.
Avoid continuous operation at or above 26" MP."

Power Plant Instrument Markings

Tachometer: 800 to 1200 RPM (A24R Only) (Engine Warm-up)
Green Arc: (Normal operating)
2350 to 2700 RPM (C24R)
2200 to 2700 RPM (A23-24, A24, A24R, B24R)
Red Line Radial: Rated 2700 RPM

4. Only the Propeller/Aircraft/Engine combination of the B3D36C429/82NPA-6 model propeller in the 76" to 75" diameter range on the Beech models A23-24, A24 and A24R with either Lycoming IO-360-A1B or IO-360-A1D engines and Beech models B24R and C24R with Lycoming IO-360-A1B6 engine installed. Approval is limited to 200 hp and 2700 RPM with a Maximum Takeoff Gross Weight of 2750 lbs. and V_{NE} of 168 KCAS.
5. 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...