

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

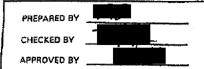
GENERAL

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

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

DATE: APR 0 3 1996.



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LOG OF REVISIONS

Revision Number Revised

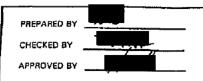
Pages

Description of Revision

Date

Approval

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:

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

Π. 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.

United States of America

Bepartment of Transportation -- Federal Abiation Administration

Supplemental Type Certificate

Number SA496CH

This certificate issued to

McCaulev Propeller Systems
Wichita, KS

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon mosts 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 : AICH

Make: Reec

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.

Bimitations and Conditions:

- Compatibility of this design change with previously approved modifications must be determined by the installer.
- 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 of issuance : April 3, 1996

TOMINISTRATION

Date reissued . September 21, 2005

Date amended:



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 1
	Termines, and street
	(City, State, and ZIP code)
from (Name of grantor) (Print or type)	
(Address of grantor)	
(13001133 5) 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 - Hederal Abiation 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...