

**DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION**

P-880
Revision 30
McCAULEY
2A36
B2A36
C2A36
D2A36
July 15, 1985

TYPE CERTIFICATE DATA SHEET NO. P-880

Propellers of models described herein conforming with this data sheet (which is part of Type Certificate No. 880) and other approved data on file with the Federal Aviation Administration meet the minimum standards for use in certificated aircraft in accordance with pertinent aircraft data sheets and applicable portions of the Federal Aviation Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

Type Certificate Holder	McCauley Accessory Division Cessna Aircraft Company Vandalia, Ohio 45377
Type	Constant speed; hydraulic (see NOTE 3)
Engine shaft	Special flange 4 in. B.C.
Hub material	Aluminum alloy
Number of blades	Two
Hubs eligible	2A36C1, 2A36C18, 2A36C23, 2A36C29, 2A36C43, 2A36C82, B2A36C31, C2A36C32, D2A36C31, D2A36C33, D2A36C45

Blades Eligible (See Note 2)	Maximum <u>Continuous</u>		<u>Takeoff</u>		Diameter Limits (See Note 2)	Approx. Maximum Weight Complete (For Reference Only)
	HP	RPM	HP	RPM		

Hub Models 2A36C1, 2A36C18, 2A36C29, B2A36C31, C2A36C32, D2A36C31, D2A36C33, D2A36C45

90M-0 to 90M-18	265	2650	265	2650	90" - 70" (-0 to -18)	60, 62 lb. *
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Hub Models 2A36C23, 2A36C82

84B-0 to 84B-6	285	2700	285	2700	84" - 78" (-0 to -6)	62 lb.
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Hub Model 2A36C43

100R-6 to 100R-16	310	2400	310	2400	94" - 84" (-6 to -16)	69 lb.
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* Higher weight applies to hub models 2A36C1, 2A36C18.

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Certification basis

Models 2A36C1/90M, 2A36C18/90M, 2A36C29/90M, B2A36C31/90M, C2A36C32/90M, D2A36C31/90M, D2A36C33/90M:
 Civil Air Regulations Part 14 effective March 5, 1952.

Models 2A36C23/84B and D2A36C45/90M:
 Civil Air Regulations Part 14 effective December 15, 1956.

Model 2A36C43/100R:
 Civil Air Regulations Part 14 effective December 15, 1956 with Amendment 14-1 thereto.

Model 2A36C82/84B:
 Federal Aviation Regulations Part 35 with Amendments 35-1 thereto.

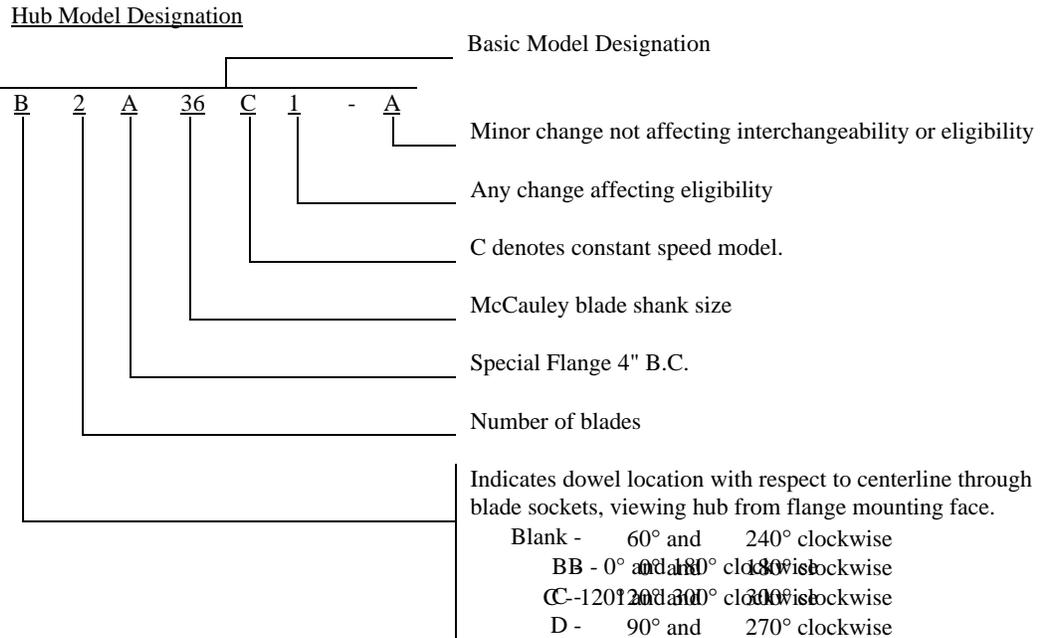
Type Certificate No. 880 issued June 10, 1953. The following models were approved under Delegation Option Authorization procedures of Regulations of the Administrator Part 410 on the date shown:

D2A35C45/90M	April 12, 1961
2A36C23/84B	June 18, 1963
2A36C43/100R	February 17, 1964

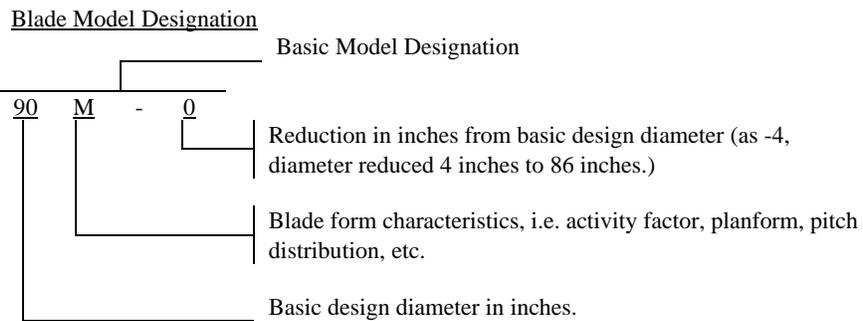
Model 2A36C82/84B was approved August 2, 1965 under Delegation Option Authorization procedures of Federal Aviation Regulations Part 21, Subpart J. Date of Application for Type Certificate April 4, 1953.

Production basis Production Certificate No. 3

NOTE 1.



NOTE 2.



NOTE 3. Pitch Control. Eligible with the following governor:

Woodward Model x,210.xxx	Wt. 3.5 lb.
Hoof Model 1,000,007 Series	Wt. 3.5 lb.
Hoof Model 1,604, 014	Wt. 3.5 lb.
Garwin Model 34-828	Wt. 3.0 lb.
McCaughey C290D1/T[X]	Wt. 2.8 lb.
McCaughey C290D2/T[X]	Wt. 2.8 lb.
Flottorp 1F1	Wt. 3.0 lb.
Garwin 34-825	Wt. 3.0 lb.
McCaughey C290D3/T[X]	Wt. 2.8 lb.
McCaughey C290D4/T[X]	Wt. 2.8 lb.

NOTE 4. Not applicable.

NOTE 5. Left-Hand Models. The left-hand version of an approved model is eligible at the same rating and diameter limitations as listed for the right-hand model.

NOTE 6. Not applicable.

NOTE 7. Accessories

(a) Spinners

- (1) Eligible with McCaughey spinners; D-2838 Dome, D2839 Bulkhead, and D-2845 Installation for 2A36, B2A36, C2A36 Models except 2A36C23; D-2838 Dome, D-2772 Bulkhead, and D-2771 installation for D2A36 Model.
- (2) Model 2A36C23 eligible with McCaughey spinners; D-2820 Shell, D-3291 bulkhead, and D-3290 installation; D-3239 Shell, D-3241 Bulkhead and D-2822 installation; or D-3395 Shell, D-3393 Bulkhead, and D-3396 installation.
- (3) Model 2A36C82 eligible with McCaughey spinner D-3395 Shell, D-3393 Bulkhead, and D-3396 installation.

(b) Propeller De-Icing.

- (1) Model 84B blades are eligible with Goodyear 4065-3542 ice guards when installed with the general requirements of Goodyear Manual AP-147.

NOTE 8. Not applicable.

NOTE 9. Table of Propeller-Engine Combinations
Approved Vibrationwise for Use on Normal Category Single-Engine Tractor Aircraft

The maximum and minimum propeller diameters that can be used from a vibration standpoint are shown below. No reduction below the minimum diameter listed is permissible since this figure includes the diameter reduction allowable for repair purposes.

<u>Hub Model</u>	<u>Blade Model</u>	<u>Engine Model</u>	<u>Crankshaft Damper Configuration</u>	<u>Max. Dia. (Inches)</u>	<u>Min. Dia. (Inches)</u>	<u>Placards</u>
*2A36C	84B	Continental O-470 & IO-470 ser. (Up to 240 hp. and 2600 r.p.m.)	One 6-1/2 & One 9th Order	84	80	None
		Continental O-, IO-, and TSIO- 470 series (Up to 240 hp. and 2600 r.p.m.)	Four 6th Order	84	78	None
*2A36C	84B	Continental O-, IO-, and TSIO- 470 series (Up to 260 hp. and 2625 r.p.m.)	Four 6th Order	84	78	None

<u>Hub Model</u>	<u>Blade Model</u>	<u>Engine Model</u>	<u>Crankshaft Damper Configuration</u>	<u>Max. Dia. (Inches)</u>	<u>Min. Dia. (Inches)</u>	<u>Placards</u>
		Continental O-, IO-, and TSIO-470 series (Up to 230 hp. and 2650 r.p.m.)	One 5th and One 6th or Two 6th Order	84	80	None
		Continental O-, IO-, and TSIO-470 series (Up to 240 hp. and 2600 r.p.m.)	Two 6-1/2 Order	84	80	None
		Continental IO-520 series (Up to 285 hp. and 2700 r.p.m.)	One 4th, One 5th and Two 6th Order	84	80	None
		Continental TSIO-520 series (Up to 285 hp. and 2700 r.p.m.)	One 4th, One 5th and Two 6th Order	82	80	None
2A36C23	84B	Continental IO-520 series (Up to 285 hp. and 2700 r.p.m.)	Three 6th and One 4th Order	84	80	None
*2A36C	90M	Continental O-, IO-, and TSIO-470 series (Up to 230 hp. and 2600 r.p.m.)	Four 6th Order	90	72	None
		Continental O-, IO-, and TSIO-470 series (Up to 260 hp. and 2625 r.p.m.)	Four 6th Order	90	78	None
		Continental O-, IO-, and TSIO-470 series (Up to 240 hp. and 2600 r.p.m.)	Four 6th Order	90	78	None
		Continental O-, IO-, and TSIO-470 series (Up to 230 hp. and 2650 r.p.m.)	One 5th and One 6th or Two 6th Order	88	80	None
		Continental O-, IO-, and TSIO-470 series (Up to 240 hp. and 2600 r.p.m.)	Two 6-1/2 Order	88	80	None
		Continental O-, IO-, and TSIO-470 series (Up to 265 hp. and 2600 r.p.m.)	Two 6th Order	90	88	None
*2A36C	100R	Continental GIO-470 series (Up to 310 hp. and 3200 r.p.m.)	Six 3rd Order	90	88	None

* Eligible vibrationwise when asterisk is replaced by blank or letter B, C, or D.

NOTE 10. The word "eligible" as used herein does not signify approval as part of this type certificate. "Eligible" accessories must be approved as part of the aircraft type certificate upon compliance with the applicable aircraft airworthiness requirements.

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