

Department of Transportation—Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number SA00461SE

Del-Air

Reissued:

Amended: 7/20/98; 8/7/98; 4/27/00; 10/5/00; 11/8/01; 10/24/02

Description of Type Design Change: (cont'd)

DESCRIPTION OF MODIFICATION OPTIONS: Any of the following engine/propeller combinations may be used with this installation on any models delineated on the Approved Model List:

- 1) Lycoming O-360-A1A or O-360-A1D engine with Hartzell HC-C2YK-1BF/F7666A variable pitch propeller.
- 2) Lycoming O-360-A4M engine with McCauley 1A170/EFA fixed pitch propeller.
- 3) Lycoming O-360-A4M engine with Sensenich 76EM8S5 fixed pitch propeller.

Limitations and Conditions: (cont'd)

LIMITATIONS: The following aircraft limitations apply to the various engine/propeller combinations:

Fixed Pitch Propeller Installations:

Engine Limits (170A, B and 172, 172A models only)

Maximum takeoff power (5 minute time limit): 2700 RPM (180 hp)

Maximum continuous power:

170A, B, and 172, 172A 2510 RPM (145 hp)

Engine Limits (172B, C, D, E, F, G, H, I, K, L, M, N, P, and 175 models only)

2700 RPM (180 hp) All Operations

Fuel Requirements:

100 minimum grade aviation gasoline

Propeller limits:

McCauley : Diameter - 76 inches maximum, 74 inches minimum
Static RPM - Not over 2460, not under 2360

Sensenich: Diameter - 76 inches maximum, no reduction in length permitted
Static RPM - Not over 2425, not under 2325

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

This certificate may be transferred in accordance with FAR 21.47.

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Limitations and Conditions: (cont'd)

Variable Pitch Propeller Installation:

Engine Limits (170A, B and 172, 172A models only)

Maximum takeoff power (5 minute time limit): Full throttle/2700 RPM (180 hp)

Maximum continuous power: @ sea level – 23.8 in. M.P./2700 RPM (145 hp)
 (170A, B and 172, 172A) @ 7000 ft. M.S.L. – 22.1 M.P./2700 RPM (145 hp)
 (Straight line variation between points given)

Engine Limits (172 B, C, D, E, F, G, H, I, K, L, M, N, P and 175 models only)
 2700 RPM (180 hp) All Operations

Fuel Requirements:

100 minimum grade aviation gasoline

Propeller limits:

Diameter: 76 inches maximum, 72 inches minimum
 Pitch settings: Low 13.0 degrees, high 29.0 degrees, ±1 degrees

C.G. Range and Maximum Weight

(172B, C, D, E, F, G, H, I, K, L, M, N, P and 175 Models, Normal Category Only)

	<u>172B, C, D, E, F, G, H, I, K, L and 175 models</u>	<u>172M, N, P</u>
<u>C. G. Range</u>	(+40.5) to (+47.3) at 2500 lb (+35.0) to (+47.3) at 1950 lb or less	(+41.0) to (+47.3) at 2550 lb (+35.0) to (+47.3) at 1950 lb or less
<u>Maximum Weight</u>	2500 lb (Normal Category Only)	2550 lb (Normal Category Only)

- END -

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**FAA APPROVED MODEL LIST (AML) NO. SA00461SE
FOR**

INSTALLATION OF LYCOMING O-360 ENGINE AND PROPELLER

ISSUED August 7, 1998

ITEM	AIRPLANE MAKE	AIRPLANE MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	FAA SEALED DRAWING LIST		AFM SUPPLEMENT NO. AND DATE	AML REVISION DATE
					NUMBER	REV		
1.	CESSNA	170A, 170B	A-799	CAR 3	4A000-1 Installation	D 7/22/02	4A000-5 Rev A 8/7/98 (Fixed Pitch Propeller)	10/24/02
2.	CESSNA	172B, 172C, 172D, 172E, 172F, 172G, 172H	3A12	CAR 3	5A000-1 Installation	D 7/22/02	6A000-5 Rev. B, 10/24/02 (Fixed Pitch Propeller)	10/24/02
					5A000-6 Fabrication	A 9/1/97		
3.	CESSNA	175, 175A, 175B, 175C, P172D	3A17	CAR 3	7A000-1 Installation	B 7/22/02	5A000-5 Rev. A, 11/08/01 (Fixed Pitch Propeller)	10/24/02
					7A000-6 Fabrication	IR 7/10/97		

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					NUMBER	REV		
4.	CESSNA	172I, 172K, 172L, 172M, 172N, 172P	3A12	CAR 3	6A000-1	A	6A000-5 Rev B 10/24/02 (Fixed Pitch Propeller)	10/24/02
					Installation	7/22/02		
5.	CESSNA	172, 172A	3A12	CAR 3	6A000-6	IR	6A000-4 Rev B 10/24/02 (Variable Pitch Propeller)	10/24/02
					Fabrication	5/6/00		
					5A000-1	D	5A000-5 8/7/98 Fixed Pitch Propeller 5A000-4 8/7/98 (Variable pitch propeller)	10/24/02
					Installation	7/22/02		
					5A000-6	A		
					Fabrication	9/1/97		

Approved by:

[Signature]
Acting Manager, Seattle Aircraft
Certification Office

Amended: 4/27/00; 10/05/00; 11/08/01; 10/24/02