

WACO REGIONAL AIRPORT P. O. BOX 5219 WACO, TEXAS 76708 254-752-8381 U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY OFFICE IDENTIFICATION AEA-FSDO-17

		144.4								
		MAKE				MODEL	PA-28-14	ın		
1.	AIRCRAFT	Pip	er		NATIONALITY AND REGISTRATION				APK	
		SERIAL NO.	20022		20			INCHOR M	r-triff	
-			20933				N6799W	Mandian	Genta)	
•	AWWED		n on registration certif	ficate)			As shown on regi edar Lane		ricare)	
Z.	OWNER	Stan	ley McKaig				ceton NJ			
_						A CONTRACTOR OF THE CONTRACTOR	Cecon No	00340		
			airworil aircraft, in FAR	ata/altera hiness rec subject 43, sect	tion identified herein quirements and is approto conformity inspection 43.7."	complies with oved for the a tion by a per	described from authorized	. Ng in E		
-			4. U)	IIT IDEI	NTIFICATION				5. 1	TYPE
		T	4. 01	1						ALTER
	UNIT		MAKE		MODEL		SERIAL	NO.	REPAIR	ATION
All	IFRAME	••••		(As desc	cribed in item 1 abo	ove) ******	·····	•		
POWERPLANT Avco Lycoming			0-	-320-E2D		L20842-	27A		×	
PRC	OPELLER									*
		TYPE								
APF	LIANCE	MANUFACTURER								
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			E AND ADDRESS		B. KIN	D OF AGE		C. CEI	RTIFICATE	NO.
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	Willi	am H. Sco Box 344B	ott Jr.		B. KIN U.S. CERTIFICAT FOREIGN CERTIF	D OF AGE ED MECHANIC ICATED MECHA	; ANIC	C. CEI		NO.
	Willi	am H. Sco Box 344B	ott Jr.		B. KIN U.S. CERTIFICAT FOREIGN CERTIF CERTIFICATED RE	D OF AGE ED MECHANIC ICATED MECHA	; ANIC			NO.
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Engine modified too 160 HP. per Ram Aircraft Corporation conversion instructions, supplements & parts manual.

Approval for return to service is STC SE3692SW

Note minor deviation to STC is the replacement of orginal 7/16" propeller flange bushings with 3/8" propeller flange bushings per Lycoming parts listing for 0-320E3D. Numerous high compression 160 HP. 0320 engines were built by Lycoming with 3/8" propeller flange bushings, examples of which are. 0-320-B1A-D2A. Both of these engines are certificated under T.C.#274 as is 0-320-E2D.

The only other minor deviation to STC is the installation of fuel pump per Lycoming parts listing for 0-320-E3D.

noiterration mbR noiteive lerabit — norterroganers Supplemental Type Certificate of America Number SE36925H RAM Aircraft Corporation Waco-Madison Cooper Airport P. O. Box 5219 Waco, Texas 76708 rifies that the change in the type design for the following product with the nber Anginal Goodust - Typo Carlificata Number: B-274 SE36925W Make: AVOO Lycoming Div. of Textron, Inc. Malel: 0-320-E2D bration wiption of Typo Design Change: er Airport Increase 5 minute takeoff maximum power rating to 160 horsepower according to RAM Report No. 85-21 dated 8/14/86, or later FAA approved revision. The following supplements or later FAA Approved revisions are required:

1. Overhaul Manual Supplement dated July 25, 1986.

2. Parts Manual Supplement dated November 26, 1986. Compatibility of this modification with other previously approved modifications must be determined by the installer. contificate and the supporting date which is the basis for approval shall o 274 Federal Swition Administr Date of application: August 18, 1986 320-E2D November 26, 1986 Assistant Manager, Aircraft Certification Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. West Region CO D Overhaul Manual Supplement July 25, 1986. Parts Manual Supplement dated November 26, 1986. must be determined by the installer. Federal Aviation Administration. Date of application: August 18, 1986 Dute reissued: Date of issuance: November 26, 1986 Date amended: allaunest For L. B. Andriesen (Signature) Division. Southwest Region

Hederal Aviation Administration

Lupe Certificate

flowing product with the limitations and conditions requirements of Part 13 of the Civil Air

CO Lycoming Div. of Textron, Inc.

rating to 160 horsepower according to later FAA approved revision.

A Approved revisions are required:

Compatibility of this modification with other previously approved modifications

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

By direction of the Administrator

Assistant Manager, Aircraft Certification

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.



MAJOR REPAIR AND ALTERATION. (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

and disposition	ONS: Print or type all entries. See FAR 4 on of this form. This report is required b n violation (Section 901 Federal Aviatio	.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instruction law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 Act of 1958).
	Make	Model

and for	d dispo each s	sition of this form	This	s report is required 901 Federal Aviati	hylawi	140115	C 1421) Fai	lure to rep	ort can result in a	civil pena	alty not to exc	eed \$1,000	
		Make						Model					
1. Ai	ircraft	Cessn	a			172M							
	······	Serial No. 1		2730			Nationality and Registration Mark						
 								2.00			14300		
ì		Name (As she	Name (As shown on registration certificate)										
2. 0	wner	Piercy R	lona	als S.			5	950 M	unicipal A	irport	road		
ĺ.								Moses	Lake, Wa.	98837			
						3. For	r FAA Use On	lv					
	NAC-SC												
						4. Un	it Identification	on			5. Type		
1	Unit		Ма	ke			Model		Serial No	•	Repair	Alteration	
AIRFI	RAME	(As desc			ribed ii	bed in Item 1 above)					x .		
POW	ERPLAN	T Lycomin	Lycoming 0-3			20-E2D L-4247			L-42475-27	7A		х	
PROF	PELLER												
		Туре											
APPL	IANCE	Manufacture	r				2		•				
					6	. Conf	formity Staten	nent			-L	<u>`</u>	
A. A	gency's	Name and Addr	ess				ind of Agency		egy magger and a gr	C. Cert	ificate No.		
· P	iercy	Ronald S.				χЦ	U.S. Certificated	Mechanic			mouto ito.		
3	788	Municipal A	irp	ort Rd.		F	Foreign Certific	ated Mechar	nic	A&P	1847126		
M	loses	Lake, Wa.	988	37		9	Certificated Rep	pair Station					
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D.	nave b	een made in acci	Jiuai	r alteration made to nce with the require correct to the best	Silicitio	OI Fai	t 45 of the U.S	n 4 above a S. Federal	nd described on t Aviation Regulati	he revers ons and t	e or attachme hat the infor	ents hereto nation	
Date						Signa	ature of Autho	orized Indiv	/idual/				
	Fel	23, 1995					Rue	e d	Pies	~			
					7. Ap	proval	for Return To	Service					
Pu Ad	rsuant ministra	to the authority ator of the Federa	giver al Av	n persons specifie iation Administrati	d belov on and	v, the is	unit identifie	d in item 4 D □ R	was inspected in	n the ma	inner prescri	ped by the	
		AA Flt. Standards		Manufacturer	, x		ction Authoriz		Other (Specify				
вү	F.	AA Designee		Repair Station		Perso Canad	n Approved by da Airworthine	/ Transport					
<u> </u>	-40	oval or Rejection		Certificate or			atura of Autho						

Signature of Authorized Individual

FAA Form 337 (12-88)

Date of Approval or Rejection

Feb 23,1995

Certificate or Designation No.

AI 1847126

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

1. Modifyied the fuel filling 2. Modifyed this pushrod hous. Note: This airc book recowas lost,	attach additional shis aircraft for points. This is engine for ing. This don raft was modirds. The airc. Also the 337 aus this 337 a	or the use of done in accor the use of aut e in accordanc fyied for auto raft was wreck s and the ope	auto fuel dance with o fuel by e with ST fuel in ed and re rational	by installinh STC SA1948C installing a C SE1931CE. October 1984 built in 92-9 data was lost	ck and date work completed g placards at the E. clamp band on a according to log 3. The fuel placate Also the engine mething which was	e ardin
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MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form	Appr	oved
OME	No.	2120-0020

For FAA Use Only

Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

ior each s	such violation (Section	901 Federal Aviation	Act o	of 1958).						
1. Aircraft	Make Cessna				Model	172M				
i. Aircrait	Serial No.	52730		Nationality and Registration Mark N1340-						
	Name (As shown	on registration certif	icate)	e) Address (As shown on registration certificate)						
2. Owner	Center	O Flying clul			Box 1	573				
	center	o riying ciu	,			pia, Wa.				
3. For FAA Use Only										
		19,11								
	e ²	3.4			·	<u> </u>	· 1		у.	
	18			4. Unit Identificat	ion			5. Type		
Unit	Ма	ake		Model		Serial No.		Repair	Alteration	
AIRFRAME	RAME (As descr			ribed in Item 1 abo	ve)		и.	х		
POWERPLA	NT									
PROPELLER	1									
	Туре									
APPLIANCE	Manufacturer									
			6.	. Conformity State	ment					
A. Agency	's Name and Address			B, Kind of Agend			C. Certi	ificate No.		
	onald S. Pierc			. U.S. Certificat						
	50 Municipal A			Foreign Certif		nic	A&P 184712 6			
	oses Lake, Wa.			Certificated R Manufacturer						
have	ify that the repair and/obeen made in accorda shed herein is true and	ince with the require	ments	it(s) identified in ite of Part 43 of the L	em 4 above a I.S. Federal /	nd described on t Aviation Regulati	the reverse ons and t	e or attachme hat the infor	ents hereto mation	
Date				Signature of Aut	norized Indiv	/idual				
J۱	une 21,1993			Kond	. أحد (Pour	_		×	
			7. Ap	proval for Return	To Service		7			
Pursuan Adminis	t to the authority give trator of the Federal A	en persons specified viation Administratio	belov n and	v, the unit identifi is IX APPROV	ed in item 4 ED DRI	was inspected i	in the ma	nner prescri	ped by the	
	FAA Fit. Standards Inspector	Manufacturer	х	Inspection Author	zation	Other (Specify))			
	FAA Designee	Repair Station		Person Approved Canada Airworthi	ness Group					
Date of Ap	proval or Rejection	Certificate or Designation No.		Signature of Auti	norized Indiv	vidual		* * *GD		
June 21,1993 AI 1847126				Kons	Q X	tu		l .		

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

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٠.	Describitor	I OI WORK	Accomplishe	. ~

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

- 1. Replaced skin sheet over top of cabin between front and rear spar carry throughs. Part number is 0511801-4. Location is between station 33 and 67.
- 2. Replaced leading edge skin on right wing from wing station 100.5 to 208.0. Part number is 0523029-4.
- 3. Replaced aft spars in both wings from wing station 23.62 to 100.5. Part numbers are 0523041-3 and 0523041-4.
- 4. Replaced skin top sheet on right wing from station 154 to 208. Part number is 0523011 -4
- 5. Replaced skin bottom sheet on right wing from station 154 to 208. Part number is 0523011-10
- 6. Replaced skin bottom sheets on both wings from station 23.62 to 57.12. part numbers are 0523011-5 and 0523011-6.

In all cases riveting was done in accordance with 43.13 Chg.3 Original rivet spacing, patterns and rivet sizes were cppied.



AIRPLANE SUPPLEMENTAL FLIGHT MANUAL

FOR

LANDPLANE OR FLOATPLANE

CESSNA MODELS 1721, 172K, 172L, AND 172M

WITH

LYCOMING 0-320-D2J-OR 0-320-E2D (AS MODIFIED PER STC SE3692SW)

*MODEL NUMBER 172M REGISTRATION NUMBER 17262730

This Supplemental Flight Manual is F.A.A. approved material and must be in the airplane for all operations when Lycoming 0-320-D2J or 0-320-E2D (as modified per STC SE3692SW) engine is installed in accordance with STC-SA2375SW. The information contained herein supplements or supersedes the information in the form of placards, markings, and manual material. For limitations, procedures and performance information not contained in this Supplemental Flight Manual consult the basic airplane placards, markings and manual material.

F.A. A. APPROVED:

allameness

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Larry Andriesen, Manager
Aircraft Certification Division
Southwest Region
FEDERAL AVIATION ADMINISTRATION
Southwest Region
Fort Worth, Texas 76101

AUG 27 1987

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STC No. SA2375SW

Page 1 Of 3 Pages



AIRCRAFT CORPORATION CESSNA 1721, 172K, 172L, AND 172M

SUPPLEMENTAL FLIGHT MANUAL

GENERAL

ENGINE

Lycoming 0-320-D2J Or Lycoming 0-320-E2D (As Modified Per STC SE3692SW)

2. FUEL 100/130 Minimum Octane

3. PROPELLER

McCauley 1C160/CTM7557

Or

McCauley 1C160/DTM7557

PROPELLER

McCauley 1A175/ETM8042

(Seaplane Only)

Or Aller

McCauley 1A175/ATM8042

II.____LIMITATIONS

F. A. A. APPROVED:

ENGINE LIMITS

Maximum Continuous: 150 HP - 2650 RPM

Take-Off (5 Minutes): 160 HP - 2700 RPM

PROPELLER LIMITS

Static RPM at maximum throttle setting:

Not over 2420, not under 2300

Diameter: Maximum 75.0 inches

Minimum 74.0 inches

3. PROPELLER LIMITS

(Seaplane Only)

Static RPM at maximum throttle setting:

Not over 2570, not under 2470

Diameter: Maximum 80.0 inches

Minimum 78.5 inches

ENGINE INSTRUMENT Tachometer:

MARKINGS

Green Arc

2200 - 2650 RPM

Yellow Arc

2650 - 2700 RPM 2700 RPM

Redline

Oil Pressure:

Redline

25 PSI

Green Arc

60-90 PSI

Redline :

100 PSI

Green Arc

Cylinder Head Temperature (If Installed): 225 - 425

Redline

F. 500

AUG 27 1987

STC No. SA2375SW



CESSNA 1721, 172K, 172L, AND 172M
SUPPLEMENTAL FLIGHT MANUAL

III. PROCEDURES

No Change

LV. PERFORMANCE

The performance of this airplane equipped with a Lycoming 0-320-D2J or 0-320-E2D (as modified per STC SE3692SW) engine is equal to or better than the original F.A.A. approved performance

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н	U	u	7	H	٠,	A.C		J	"

F. A. A. APPROVED:

STC No. SA2375SW

Page 3 Of 3 Pages

United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

RUPLACEIN	ENT PAPERY Purchase	VORK C	22 84/
Cartyinal	Purchase	Date	12-07
Roplacom	ont Date	1-13-9	5
Signatur	o Hall M	7.7	

Number

SE1931CE

000156

This certificate, issued to

Petersen Aviation, Inc. Route 1, Box 18 Minden, Nebraska 68959

cortifies that the change in the type design for the following product with the limitations und conditions Civil Air therefor as specified hereon meets the airworthiness requirements of Part 13 of the Regulations.

Original Product - Type Certificate Number:

E-274

Lycoming

0-320. 0-320-A1A, -A1B, -A2A, -A2B, -A2C, -A2D, -A3A, -A3B, -A3C, -C1A, -C1B, -C2A,

Description of Type Design Change:

-C2B, -C2C, -C3A, -C3B, -C3C, -E1A, -E1B, -E1C, -E1F, -E2A, -E2B, -E2C, -E2D, -E2F,

-E2G, -E2H, -E3D, -E3H, -E1J

Add the following approved fuel: unleaded automotive gasoline, 87 minimum antiknock index and leaded automotive gasoline, 88 minimum antiknock index, (RON + MON)/2, per ASTM Specification D-439. Intermixing with aviation gasoline also approved. Data Required: 1. A copy of this certificate. 2. Petersen Drawing List L-320() dated December 12, 1983, or later "FAA Approved" revisions.

Limitations and Conditions: This approval should not be extended to other specific engines of this model that incorporate any other previously approved modification, unless it is determined that the interrelationship between this change and any other previously approved modification will introduce no adverse effect on the airworthiness of this engine model. Specific approval must be obtained for each model aircraft to insure compatibility with its fuel system.

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: July 19, 1983

Date reissued :

Date of issuance :

February 22, 1984

Date amended: November 1, 1984

By direction of the Administrator Laurence a. Herron

A Robert A Gambrill Jr. Manager Wichita Aircraft Certification Office

(Title)

United States of America

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

REPLACEMENT PAPERWORK
Original Purchase Date 9-22-84 Replacement Date

Number SA1948CE

000156

Signature Tell of This certificate; issued to

Petersen Aviation, Inc. Route 1, P.O. Box 18 Minden, Nebraska

cortifies 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.

Original Product - Type Certificate Number: 3A12

Make: Cessna

Model: 172, 172A, B, C, D, E, F, G, H, I, K, L, M

Description of Type Design Change: Operation of airplane on unleaded automotive gasoline, 87 minimum antiknock index and leaded automotive gasoline, 88 minimum antiknock index (RON + MON)/2 per ASIM Specification D-439. Intermixing with aviation gasoline also approved. DATA REQUIRED: Petersen Drawing List Cessna 172 dated December 12, 1983, or later FAA Approved revision.

Limitations and Conditions: Limited to those airplanes equipped with gravity fuel feed to the carburetor and certificated (original or STC) or FAA Field Approved engine installations. All engines must have separate approval for operation on automotive gasoline in the form of Supplemental or Type Certificate approval. This approval should not be extended to other specific airplanes on which other previously approved modifications are incorporated, unless it is determined that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of the airplanes.

This cortificate and the supporting date which is the basis for approval shull 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: November 6, 1983

Gale of issuance: March 23, 1984 Sinte ressued :

Tale amended March 30, 1990, August 27, 1984 June 23, 1992

By direction of the Administrator

Lawrence A. Herron, Manager

Wichita Aircraft Certification Office

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.



MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

INSTRUCTIONS	
THO TRUCTIONS: Print or type all entries See FAR 43 0 FAR 43 A	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a for each such violation (Section 901 Federal Aviation Act of 1959).	revision thereof) for instructions
and an apposition of this form. This report is required by law (4911 S.C. 1421). Entire to report one required by	civil manalty matter average Add 000
Tor each such violation (Section 901 Endered 4 19 0.5.0. 1421). Failure to report can result in a	civil penalty not to exceed \$1,000
for each such violation (Section 901 Federal Aviation Act of 1958).	8 (5)
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	1000	non son rederal Avi	ation A	ct of 1958).						
1. Aircraft	Make Cess	sna		,	Model 172 _M					
	Serial No.	7262730		Nationality and Registration Mark N 1 3 4 0 0						
2. Owner	Name (As sho Ronal d	wn on registration co 1 S. Piercy	ertifica	te)						
				3. For FAA Use C	only					
	1		т -	4. Unit Identificat	ion			5. Type		
Unit		Make 		Model		Serial No	o. 	Repair	Alteration	
AIRFRAME	•••		(As des	cribed in Item 1 abo	ve) ••••••	**********			XX	
POWERPLANT										
PROPELLER										
APPLIANCE	Type Manufacturer	73 P								
	<u></u>			6. Conformity States	nent					
	ame and Address	s		B. Kind of Agency			C. Certif	icate No.		
	Garneau	G		X U.S. Certificate						
3788 N	w Flying Junicipal	Airport Ro	ad	Certificated Repair Station				536608005		
D. Loostifuth	Lake, WA	/or alteration made to	o the ur	Manufacturer						
		or alteration made to ance with the requir d correct to the best		knowledge.	o. i ederal Av	lation Regulation	ne reverse ons and tha	or attachme at the inform	nts hereto ation	
Date Dec.	13, 1995			Signature of Author		Same	au			
*			7. Ap	proval for Return To	Service					
Pursuant to t	he authority give r of the Federal A	en persons specified viation Administration	d belov on and	v, the unit identified is X⊠ APPROVE	in item 4 w	as inspected in	the mann	er prescribe	ed by the	
Inspe	Fit. Standards	Manufacturer	XX	Inspection Authoriza	ition	Other (Specify)	_			
Y FAA [Designee	Repair Station		Person Approved by Canada Airworthines	Transport ss Group					
ate of Approva		Certificate or Designation No. AI 1847	126	Signature of Author	rized Individu	0	<u> </u>			
Dec 13,	1995			1000			\sim			

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished	
(If more space is required attach additional sheets identify	with aircraft nationality and registration mark and date work completed.)
In accordance with STC SA80318W	with wiveren nationality and registration mark and date work completed.)
Installed Zeftronder Alternator	Controller Unit P/N R15100RevA, in
accordance with 7 oftwander Draud	Ing ZOOIDC, dated 1/31/91 (R15100), or
Z100IDD, date 1/31/91 (R15V00),	or later The server and server as
N13400	or later FAA approved revision.
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US Department
of Transportation
Federal Aviation

Form Approved OMB No. 2120-0020 2/28/2011	Electronic Tracking Number
	For FAA Use Only

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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

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Anited States Of America Department of Transportation - Federal Abiation Administration

Supplemental Type Certificate

Number SA2375SW-D

This Certificate issued to

RAM Aircraft, Limited Partnership 7505 Karl May Drive Waco, TX 76708

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the direconthiness requirements of Part 3 of the Civil Air Regulations.

Original Product Type Certificate Number.

Cessna

1/72D; 172E; 172F; 172G; 172H; 172I; 172K; 172L; 172M; 172N

Description of Type Design Change: Installation of Lycoming 0-320-D2J, or 0-320-E2D (as modified by STC SE3692SW-D) engine rated for 160 h.p. take-off and 150 h.p. METO for models 172I, 172K, 172L, and 172M according to RAM Dwg. R17201 Rev. F dated 12/9/86; or installation of Lycoming 0-320-D2G, 0-320-D2J, or 0-320-E2D (as modified by STC SE3692SW-D) engine rated for 160 h.p. take-off and 145 h.p. METO for models 172D, 172E, 172F, 172G, and 172H according to RAM Dwg. 17202, Rev. K dated 12/9/86, of installation of Lycoming 0-320-D2G, 0-320-D2J or 0-320-E2D (as modified by STC SE3692SW-D) engine (160 h.p., 2700 r.p.m) in model 172N according to RAM Dwg. 17203, Rev. L dated 12/9/86; or later FAA approved revision.

Limitations and Conditions.

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 : September 07, 1976

Dale of issuance . November 01, 1976

Dale reissued. October 08, 2001, September 20, 2002; May 12, 2008, August 25, 2008

Date amended. June 10, 1977; March 30, 1978; November 9, 1978; January 26, 1979; February 3, 1981; September 28, 1981; November 5, 1981; August 28, 1987 Revision 8

By direction of the Administrator

Terry L. Bowden

DAS administrator

DAS-700100-SW Waco, Texas

RAM Aircraft LP

(Title)

(Signature)





February 28, 2020

KEN'S MOBILE MECHANICS KEN 222 AIRPORT DRIVE LOCKHART, TX 78644

REI STC Permission Statement

Dear Sir or Madam:

This letter serves as a one-time authorization per our agreement to install a Lycoming Engine Model 0-320-E2D on Cessna Aircraft Model 172M Serial No. 17262730.

Installation is to be done in accordance with RAM AIRCRAFT LIMITED PARTNERSHIP STC SA2375SW-D.

Sincerely,

WILLIAM GREEN

Quality Assurance Dept.

William & Cim

United States Of America

Bepartment of Transportation - Federal Abiation Administration

Supplemental Type Certificate

Number se3692sw
This Certificate issued to RAM Aircraft, Limited Partnership 7505 Karl May Drive
Waco TX 76708
certifies that the charge in the type design for the following product with the limitations and conditions
therefor as specified hereco meets the airworthiness requirements of Part 13 of the Civil Air Regulations.
o segueraresa.
Original Product Type Certificate Number E-274
Mbake. AVCO Lycoming Div. of Textron, Inc. Mbodel: 0-320-E2D
Description of Type Design Change: Increase 5 minute takeoff maximum power rating to 160 horsepower according to RAM Report No. 85-21 dated 8/14/86, or later FAA approved revision.
Limitations and Conditions The following supplements or later FAA Approved revisions are required:
1. Overhaul Manual Supplement dated July 25, 1986. 2. Parts Manual Supplement dated November 26, 1986.
Compatibility of this design change with previously approved modifications must be determined by the installer. 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.
This certificate and the supporting data which is the basis for approval shall remain in effect until
surrendered, suspended, revelied or a termination date to otherwise established by the Administrator of the
Federal Sociation Solministration.
Date of application: August 18, 1986 Date reissued: October 8, 2001
Date of issuance: November 26, 1986 Date amended:
By direction of the Administrator Market Ma
S. Frances Cox, Manager Special Certification Office, Southwest Region
(Title)

United States of America

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate
THIS COPY OF STC

Number SA256NW FOR AIRCRAFT RECORDS OF CESSNA

This certificate, issued to B & M Aviation

N/3400 Ser. No/7262730

cortifies that the change in the type design for the following product with the limitations and conditions

of the Civil Air therefor as specified hereon meets the airworthiness requirements of Parl 3

Regulations.

Original Product - Type Certificater Number:

* See attached Master Eligibility List(MEL) No SA256NW for list of approved airplane models and applicable airworthiness regulations

Model:

+ FLAP SEALS

Description of Type Design Change: Installation of aileron Gap Seals with B & M Aviation's Installation Instructions No. BM6 dated November 3, 1975.

Limitations and Conditions: The approval of this change in type design applies basically to the aircraft models listed on FAA Approved MEL No. SA256NW and should not be extended to other specific models of these airplanes on which other previously approved modifications are incorporated, unless it is determined that the interrelationship will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate, Master Eligibility List No. SA256NW and B & M Aviation's Installation Instructions No. BM6 dated November 3, 1975 shall be maintained as part of the permanent records for each aircraft modified.

This certificate and the supporting data which is the basis for approval shall remain in effect until sur-

rendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the

Federal Aviation Administration.

Date of application: November 3, 1975

Date reissued:

Date of issuance:

February 9, 1976

Date amended:



Chief. Engineering and Manufacturing Branch

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.

New Interior

Learnesz N-13400

Making Aircraft Quieter, Safer and More Comfortable.

00 North Highway 251, Davis Junicison, IL 61020 | 800 945 7135 | www.standialn.com

Bury arth.

EST RESULTS rendix F Part I (a)(1)(ii)	Skandla, Inc. WO # 308391-16 Client PO 684545	1
The state of the s	Doc ID: 12NW-347918 Test Plan # Rev	
*	Project # Technician Rickey Ryerson	

A AIRCRAFT COMPONENT IDENTIFICATION

Serial: N/A

Tail: N/A

Conditioning Room Data:

Date In: 04/12/2016 Time In: 10:30

Date Out: 04/13/2016 Time Out: 10:40

SPECIMEN MATERIALS

Part No: RHC209

Edelman Leather, LLC: Leather, Royal Hide, Moderate White

Lot No AA16ETFL/AC16ETFL

Set	Flame Application (seconds)	Flame Time (seconds)	Burn Length (Inches)	Drip Flame Time (seconds)
1	12	0,0	0.4	0.0
2	12	0.0	0.4	0.0
3	12	0.0	0.4	0.0
	Average:	0.0	0.4	0.0

Vertical (12 second) Burn Test: Average Self-Extinguish time may not exceed 15 seconds.

Average Burn Length may not exceed 8 inches. Average Dripping may not exceed 5 seconds after falling.

Comments:

CERTIFICATION: I certify that after testing these specimens, the above procedures and equipment specified by Code of Federal Regulations T	Passed Failed e results were obtained in accordance with the litle 14 Part 25, or the Aircraft Materials Fire test
handbook. Not FAA approved unless an 8110-3 has been issued.	
	04/13/2016

(5)
US Department
of Transportation
Federal Aviation
Administration

Form Approved OMB No. 2120-0020 2/28/2011	Electronic Tracking Number
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Additional Sheets Are Attached

United States of America

Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number SA01088SE

This certificate, issued to

Dynamic Propellers LLC 341 Lisa Lane Pasco, WA 99301 he Date Sure in Sure in Sure Sur

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.

Original Product—Type Certificate Number:

3A12

Make:

Cessna

Model:

172L, 172M

Description of the Type Design Change. Installation of Dynamic Propellers induction air inlet on carburetor air box in accordance with Dynamic Propellers Drawings List 30DL, Revision New, dated April 18, 2002, or later Federal Aviation Administration (FAA) approved revision.

Limitations and Conditions. Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of this e previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this certificate must be maintained as part of the permanent records for the modified aircraft.

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.

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:

April 18, 2002

Date reissued:

December 10, 2014

Date of issuance:

May 14, 2002

Date amended:



By direction of the Administrator

(Signature)

Manager, Seattle Aircraft Certification Office

(Title)

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

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I hereby authorize the following repair wo	rk to be done along with th	e Cust. Order No.		DIAMOND A	AVIATION SERVI	ICE		
necessary materials, and hereby grant you a	nd/or your employees permis	-				Mail BA	Bay 405	
sion to operate and fly the afferaft herein desc	ribed for the purpose of testin	0 -	5901-NW A			Mail; P.O.		
and/or inspection. An express Mechanic's L.	ien is hereby acknowledged o	n Terms:	Pendleten;	3regon - 97001	-4-01	Weston, C		
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of fire, Meft, or any other cause beyond yo	1100 Miles	fer day	C	latomer and Aircraf	t Information	No 00	0384	
8-13-01/9-4-			Name 1	lovd Pier	cv		was removaled instantibute.	
			Address 33927 Riverview Dr.					
DEDIVIDE DEGGE	A PROPERTY OF A L		City, State		That DP 9	77838	7	
SERVICE DESCR	IPTION				TOPS DE		- Programmer Control of the Control	
1 migre Roll cracked mit of rought				Phone work				
whole Andrea	die zecol.	101 4/0 - Ni					unc Million unt all constants	
2 ch R-16 TD1	10 0	6	A/C Model_,		B/N/7262730	N 13.4	00	
10150	1 1 200 - 1	700	MFG.C		Date of Mig. 2	771	nes principal mention disposal d	
TO MARY (3.6)	1-200-	(20)	Hobbs	Tach	4361,0 T	ach		
3 Acometical	for more has	Va guerre	A/C T.T.	1361.0				
- Lightopp = 130an	s cranke RH:	Ca	Engine T.T.	Lott- 4407.	3 Right			
4 kland Ale With	to + Rome Por	.2\	Engine SMC		3 Right			
5 all Par D Boxxis	11 11/ 200		Propeller T.		Right			
1 0 000	- March 20 %	10.			-			
a replace took in	and account	3	Propeller SM	VION BUIL	Right_			
remove cracked &	- onder land als	00	1				Total	
warning (and the	وبت	-0	Quan		& Description	Each	Amount	
8 23 item desere	excelent upa	44	1 Kit	Cleveland	wheel CONV	EMS/DN)		
22 MG27039-DEDS	SCIENIS 1/D	2.20		LIST	134000	Cost	91/2	
111 4507070 0912		0) 3,20	1 2	rated le	10-1 - 140	900	87.9	
16) 132 1037-0012	Screwa (2)	The complete the property of the complete of t		UCHELLA 6'A	V.B IIFAII		1	
(1) MIL-H-6000-1	4 Hose & F-C	8.06	 / 	1011	146-05	1431	27.6	
See Separate Service Sheet 📋	Labor Total	-13.46	1_/	346108	Air filler	(8116)	517	
Totals		Misc	1 / 1	11560290	All hose		32.62	
Labor 39,0//04/8 x 40.0	O FUEL	3	1 1	11960290			36.8	
	2.25 BIL (2013 0)	7)		119 1 11	PEA DE LINE		23.11	
	7710910	11 11000		Student De II	-ry (33.00)	6130	149116	
Miso, = 1236,3/Au	F/A (2/10/11/9	20,00	2 6	1118110	UIL TILTER	13.6	27.76	
V560,00 /21	or	4.43	1_/	7411-14	CDW/ MOHL	14.00	10.5	
20057	AND THE RESIDENCE OF THE PARTY	3,52	1 1	79-11-5 1	18th west of	N. 32.56	24.7	
2773		11.25	Bee Be	eparate	The state of the s		0 1	
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THINKE								
Pel 1200-09/07/01								

Ref N: 7149U	Model: M20E
MFG: Mooney	S/N: 388
Total Time:	1665.67
Tach / Hobbs:	1665.67 / 910.10
Date: 09-2022	
Researcher: M	S Location: MS
REMOVED THE FOLL THE ABOVE REFERE	OWING PART FROM NCED AIRCRAFT.
MFG: Whele	'n
Strobe Light	Power Supply /
Assy (V: 14, A	\: 1.7)
M/N: A490T-	-DF-14
USE M/N: A4	190T-CF-14
S/N:	
Part Total Time:	
TIME SINCE OVER	HAUL: