

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

Number SA01157LA

This certificate, issued to **Electronics International, Inc.
63296 Powell Butte Hwy.
Bend, OR 97701**

*certifies 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 * of the * Regulations.*

Original Product—Type Certificate Number: * See attached FAA Approved Model List (AML)
Make: No. SA01157LA for a list of approved aircraft
Model: models and applicable airworthiness TCDS

Description of the Type Design Change: Installation of Electronics International Model FP-5 or FP-5L Fuel Flow/Fuel Pressure Instrument as a replacement instrument in accordance with document II SO506931 revisions listed on the attached AML No. SA01157LA, or later FAA approved revision.

Limitations and Conditions: The installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. The approval of this modification applies to the above noted airplane model series only. A copy of this STC, the AML, and Airplane Flight Manual Supplement, AFM2112, Rev. B, or later FAA approved revision must be included in the permanent records of 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: September 11, 2000

Date reissued: December 3, 2001, January 20, 2005

Date of issuance: June 1, 2001

Date amended: January 20, 2005



By direction of the Administrator

A handwritten signature in black ink, appearing to be "S. J. ...", written over a horizontal line.

(Signature)

Acting 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.

This certificate may be transferred in accordance with FAR 21.47.

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

Number SA01157LA

Electronics International, Inc.

Reissued: December 3, 2001, January 20, 2005

Amended: January 20, 2005

Limitations and Conditions: (cont'd)

In locations where this STC removes an existing combination manifold pressure (MAP)/fuel flow instrument, an FAA approved MAP gage must be installed in the aircraft with the FP-5 or FP-5L fuel flow/fuel pressure instrument installed by this STC.

This instrument must not be the primary source of information for determining the fuel quantity on board.

The instrument fuel pressure limits must be programmed at the factory and may not be pilot programmable.

- END -

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

FAA FORM 8110-2-1 (10-69)

This certificate may be transferred in accordance with FAR 21.47.

FAA Approved Model List (AML) SA01157LA
For Installation of

Electronics International, Inc. Primary Fuel Flow/Pressure Instruments

Issue Date: June 1, 2001

Item	Aircraft Make	Aircraft Model	Original Type Certificate Number	Certification Basis For Alteration	Flight Manual Supplement		Installation Instructions		AML Amended Date	
					Number	Revision	Number	Revision		
						AFM2112	B 1/07/2005 or Later FAA Approved Revision	II S0506931	B 7/09/2004 or Later FAA Approved Revision	
		95, B95, B95A, D95A, E95, 95-55, 95-A55, 95-B55	3A16	CAR 3						
		95-B55A, 95-B55B, 95-C55, 95-C55A	3A16	CAR 3						
12	Bellanca Aircraft Corporation (See <i>American Champion</i>)	17-30A, 17-31A	A18CE	FAR 23						
		17-31ATC	A18CE	FAR 23						
		14-19, 14-19-2, 14-19-3, 14-19-3A, 17-30, 17-31, 17-31TC	1A3	CAR 3						
13	Boeing Aircraft	75 thru E75, A75J1, A75L300, A75N1 thru E75N1, IB75A	A-743	CAR 4A						
14	Cessna Aircraft Corp.	170 thru 170B	A-799	CAR 3						
		172 thru 172Q	3A12	CAR 3						
		172R, 172S	3A12	FAR 23						
		R172E thru R172K, 172RG	3A17	CAR 3						
		175 thru 175C	3A17	CAR 3						
		177A, 177B	A13CE	FAR 23						
		177RG	A20CE	FAR 23						
		TR182	3A13	CAR 3						
		185, 185A, 185B	3A24	CAR 3						
		185C, 185D, 185E, A185F, A185G	3A24	CAR 3						
		188, 188A, 188B, A188, A188A, A188B, T188C	A9CE	FAR 23						
		206, 206H, P206 thru P206E, T206H	A4CE	CAR 3						
		TP206A thru TP206E	A4CE	CAR 3						
		U206 thru U206G, TU206A thru TU206G	A4CE	CAR 3						
		207, 207A, T207, T207A	A16CE	FAR 23						
		210, 210A, 210B, 210C, 210D, 210E, 210F, T210F, 210G, T210G	3A21	CAR 3						
		210H, T210H, 210J, T210J, 210K, T210K, 210L, T210L	3A21	CAR 3						
		210M, T210M, 210N, P210N, T210N, 210R, P210R, T210R	3A21	CAR 3						
		210-5 (205), 210-5A (205A)	3A21	CAR 3						
		T303	A34CE	FAR 23						
		305A, 305C, 305D, 305F	5A5	CAR 3						
		305B, 305E	3A14	CAR 3						
		310, 310A, 310B, 310C, 310D, 310E, 310F, 310G, 310H, E310H	3A10	CAR 3						
		310J, 310J-1, E310J, 310K, 310L	3A10	CAR 3						
		310N, 310P, 310R, T310P, 310Q, T310Q	3A10	CAR 3						
		320, 320-1, 320A thru 320F, 335, 340, 340A	3A25	CAR 3						
		336, 337, 337A, 337B, 337C, 337D, 337E, 337F, 337G, 337H	A6CE	CAR 3						
		M337B, P337H	A6CE	CAR 3						
		T337B, T337C, T337D, T337E, T337F, T337G, T337H	A6CE	CAR 3						
		T337H-SP, 340, 340A	A6CE	CAR 3						
		401, 401A, 401B, 402, 402A, 402B, 402C	A7CE	CAR 3						

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Issue Date: June 1, 2001

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					Number	Revision	Number	Revision		
15	Child Doyle F. Christen Industries	See Aviat								
16		SR20, SR22	A00009CH	FAR 23					10/17/2005	
17	Cirrus Design Corporation	1000	2A6	CAR 8					1/20/2005	
18		12	2A12	CAR 8						
19	Commander Aircraft	112, 112B, 114, 114A, 112TC, 112TCA	A12S0	FAR 23					6/1/2001	
		114B	A12S0	FAR 23					1/20/2005	
		500, 500-A, 500-B, 500-S, 500-U, 520, 560, 560-A, 560-E	6A1	CAR 3						
		560-F, 680, 680-E, 680-F, 680-FL, 680-FL(P), 685	2A4	CAR 3						
		700	A12SW	FAR 23						
		720	2A4	CAR 3						
		DH 82A	A3PC	FAR 21					1/10/2006	
20	DeHavilland Aircraft	DH 82A	A8EU	FAR 21						
		DHC1 Chipmunk 21, DHC1 Chipmunk 22A	A44EU	FAR 21						
		DHC1 Chipmunk 22	A44EU	FAR 21						
		DHC-1B-2-S3, DHC-1B-2-S5	A26NM	FAR 21						
		DHC-2 Mk. I (L-20A), DHC-2 Mk II	A-806	CAR 10						
		DHC-3	A-815	CAR 10						
		L-20A	AR-33	CAR 8						
21		Diamond Aircraft Industries	DA 20-A1, DA 20-C1	TA4CH	FAR 21					1/20/2005
			DA 40	A47CE	FAR 21					10/17/2005
22		Dornier-Werke	DO 27 Q-6	A8FN	CAR 10					1/20/2005
	DO 28 A-1, DO 28 B-1		7A13	CAR 10						
	DO 28 D, DO 28 D-1		A16EU	FAR 23						
	228-100, 228-101, 228-200, 228-201, 228-202, 228-212		A16EU	FAR 23						
23	ERCO	See Univair								
24	Extra Flugzeugbau	EA-200, EA-300, EA-300L	A67EU	FAR 23						
		EA-400	A43CE	FAR 21					10/17/2005	
25	Forney	See Univair								
26	Globe (Swift)	GC-1A, GC-1B	A-766	CAR 4A					1/20/2005	
		AA-1, AA-1A, AA-1B, AA-1C	A11EA	FAR 23					1/20/2005	
27	Gulfstream American Corp. <i>(American General, Grumman & Tiger)</i>	AA-5, AA-5A, AA-5B, AG-5B	A16EA	FAR 23						
		See Prop-lets								
28	Interceptor									
29	Jodel	D-140-B	A31N	CAR 10						
		DR-1050	A41N	CAR 10						
		D-1190	A101N	CAR 10						
30	Lake (Revo)	150	A141N	CAR 10						
		C-1, C-2, LA-4, LA-4A, LA-4P, LA-4-200, 250	LA13	CAR3					1/10/2006	
31	Lancair (Columbia)	LC40-550FG, LC42-550FG	A0003SE	FAR 23					10/17/2005	

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32	Marchetti	S205-18/F, S205-18/R S205-20/F, S205-20/R S205-22/R S208, S208A F260, F260B, F260C, F260D, F260E, F260F SIAI	A9EU	FAR 21	AFM2112	B 1/07/2005 or Later FAA Approved Revision	II S0506931	B 7/09/2004 or Later FAA Approved Revision	1/20/2005	
			A9EU	FAR 21	"	"	"	"	"	
			A9EU	FAR 21	"	"	"	"	"	"
			A9EU	FAR 21	"	"	"	"	"	"
			A10EU	CAR 3	"	"	"	"	"	"
			A86EU	FAR 23	"	"	"	"	"	"
33	Maule	M-4, M-4C, M-4-210, M-4-210C, M-4-210S, M-4-210T M-5-180C, M-5-200, M-5-210C, M-5-210TC, M-5-235C M-6-180, M-6-235 MXT-7-160, M-7-180, MX-7-180A, MX-7-180B, MX-7-180C MXT-7-180, MXT-7-180A M-7-235, M-7-235A, M-7-235B, M-7-235C, MT-7-235 M-8-235	3A23	CAR 3	"	"	"	"	"	
			3A23	CAR 3	"	"	"	"	"	
			3A23	CAR 3	"	"	"	"	"	"
			3A23	CAR 3	"	"	"	"	"	"
			3A23	CAR 3	"	"	"	"	"	"
			3A23	CAR 3	"	"	"	"	"	"
			3A23	CAR 3	"	"	"	"	"	"
			3A23	CAR 3	"	"	"	"	"	"
			A27EU	FAR 21	"	"	"	"	"	"
			A27EU	FAR 21	"	"	"	"	"	"
34	Messerschmitt	BO-209-150 FV & RV BO-209-160 FV & RV BO-209-150 FF	A27EU	FAR 21	"	"	"	"	"	
			A27EU	FAR 21	"	"	"	"	"	
35	Meyers	See Prop-Jets	"	"	"	"	"	"	"	
			"	"	"	"	"	"	"	
36	Mooney Aircraft	M-18C, M-18CS5, M-18L, M-18LA M20, M20A thru M20G, M20I, M20K, M20M, M20R, M20S M22	A-803	CAR 3	"	"	"	"	"	
			2A3	CAR 3	"	"	"	"	"	
			A6SW	CAR 3	"	"	"	"	"	"
			"	"	"	"	"	"	"	"
37	Navion	See Thompson	"	"	"	"	"	"	"	
			"	"	"	"	"	"	"	
38	Partenavia	P-68, P-68B, P-68C, P-68C-1C P-166, P-166B, P-166C	A31EU	FAR 21	"	"	"	"	"	
			7A4	CAR 10	"	"	"	"	"	
39	Piaggio	P-136-L, P-136-L1, P-136-L2	A-813	CAR 10	"	"	"	"	"	
			7A15	CAR 10	"	"	"	"	"	
40	Pilatus	PC-6, PC-6-HI, PC-6-H2 PC-6/50, PC-6/50-HI, PC-6/50-H2	7A15	CAR 3, 10	"	"	"	"	"	
			1A15	CAR 3	"	"	"	"	"	
41	Piper Aircraft Co.	PA-24-250, PA-24-260, PA-24-400 PA-25-235, PA-25-260 PA-28-180 PA-28R-180, PA-28R-200 PA-28R-201, PA-28-201T, PA-28R-201T, PA-28-235 PA-28-236, PA-28RT-201, PA-28RT-201T, PA-28S-180 PA-30 PA-31, PA-31-300, PA-31-325, PA-31-350 PA-31P, PA-31P-350 PA-32-260, PA-32-300, PA-32R-300, PA-32RT-300 PA-32S-300, PA-32-301, PA-32-301T, PA-32R-301 PA-32R-301T, PA-34-200, PA-34-200T, PA-34-220T PA-36-285, PA-36-300, PA-36-375	2A8	CAR 3	"	"	"	"	"	
			2A13	CAR 3	"	"	"	"	"	
			2A13	CAR 3	"	"	"	"	"	"
			2A13	CAR 3	"	"	"	"	"	"
			2A13	CAR 3	"	"	"	"	"	"
			A1EA	CAR 3	"	"	"	"	"	"
			A2050	CAR 3	"	"	"	"	"	"
			ABEA	CAR 3	"	"	"	"	"	"
			A350	CAR 3	"	"	"	"	"	"
			A350	CAR 3	"	"	"	"	"	"
			A750	FAR 23	"	"	"	"	"	"
			A950	FAR 23	"	"	"	"	"	"
			10/17/2005	"	"	"	"	"	"	"
			1/20/2005	"	"	"	"	"	"	"

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						AFM2112	B 1/07/2005 or Later FAA Approved Revision	II S0506931	B 7/09/2004 or Later FAA Approved Revision	
		PA-39, PA-40	A1EA	CAR 3	"	"	"	"	"	"
		PA-44-180, PA-44-180T	A19SO	FAR 23	"	"	"	"	"	"
		PA-46-310P, PA-46-350P	A25SO	FAR 23	"	"	"	"	"	"
42	Pitts	<i>See Aviat</i>								
43	Prop-Jets (Interceptor) <i>(Aero Commander & Meyers)</i>	200, 200A, 200B, 200D, 400	3A18	CAR 3	"	"	"	"	"	"
44	Revo	<i>See Lake</i>								1/10/2006
45	Rockwell	<i>See Commander Aircraft</i>								1/20/2005
46	Sky International	<i>See Aviat</i>								
47	Socata Group (Aerospatiale)	TB 9, TB 10, TB 20, TB 21	A51EU	CAR 3	"	"	"	"	"	"
		TB 200	A51EU	CAR 3	"	"	"	"	"	"
		GA-7	A17SO	FAR 23	"	"	"	"	"	"
48	Stinson	<i>See Univair</i>								
49	Swift	<i>See Globe</i>								10/17/2005
50	Thompson <i>(Navion, North American)</i>	Navion A, B, D, E, F, G, H	A-782	CAR 3	"	"	"	"	"	1/20/2005
		L-17A, L-17B, L-17C	A-782	CAR 3	"	"	"	"	"	"
51	Tiger Aircraft	<i>See Gulfstream American</i>								
52	Trytek	<i>See American Champion</i>								
53	Univair Aircraft <i>(Alon, Erco, Forney, Mooney)</i> <i>(Stinson)</i>	108, 108-1, 108-2, 108-3, 108-5	A-767	CAR 3	"	"	"	"	"	"
		V-77	A-774	CAR 4A	"	"	"	"	"	"
		L-5, L-5B, L-5C, L-5D, L-5-E, L-5-E-1	A-764	CAR 4A	"	"	"	"	"	"
54	Varga	<i>See Augustair Inc.</i>								
55	WSK- "PZL-Mielec" OBR	PZL M20 03	A68EU	FAR 21	"	"	"	"	"	"
	End of List									

Amended Date: 1/20/2005; 10/17/2005; 1/10/2006

FAA Approved: 
 Acting Manager, Seattle Aircraft Certification Office