

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

(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.

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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		
1	Aero Commander (<i>Volaire</i>)	10, 10A, 100, 100A, 100-180	1A21	CAR 3	"	"	"	"	1/20/2005	
2	Aeromot	AMT-100, AMT-200, AMT-200S, AMT-300	TG00004AT	CFR 21	"	"	"	"	"	
3	Aerospatiale	<i>See Socata</i>							"	
4	Alliance Aircraft Group (<i>Helio Enterprises</i>)	H-250, H-295, HT-295	1A8	CAR 3	"	"	"	"	"	
		H-391B, H-395, H395A, H-391, H-700, H-800	1A8	CAR 3	"	"	"	"	"	
5	Alon	<i>See Univair</i>							"	
6	American Blimp	A-60, A-60+	AS1NM	FAR 21	"	"	"	"	"	
		A-1-50	S00002SE	FAR 21	"	"	"	"	"	
7	American Champion (<i>Aeronca, Bellanca, Trytek</i>)	7BCM, 7DC, S7DC	A-759	CAR 4A	"	"	"	"	"	
		7CCM, S7CCM	A-759	CAR 4A	"	"	"	"	"	
		7EC, 7ECA, S7EC, 7HC, 7KC, 7KCAB	A-759	CAR 4A	"	"	"	"	"	"
		7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC	A-759	CAR 4A	"	"	"	"	"	"
		7GCBA	A-759	CAR 8	"	"	"	"	"	"
		8KCAB, 8GCBC	A21CE	FAR 23	"	"	"	"	"	"
		11AC, 11BC, S11AC, S11BC	A-761	CAR 4A	"	"	"	"	"	"
11CC, S11CC	A-796	CAR 3	"	"	"	"	"	"		
8	American General Aircraft	<i>See Gulfstream American</i>							"	
9	Augustair Inc. (<i>Varga</i>)	2180	4A19	CAR 3	"	"	"	"	"	
10	Aviat Inc. (<i>Pitts, Sky, Child F. Doyle</i>) (<i>Christen Industries</i>)	A-1, A-1A, A-1B	A22NM	FAR 23	"	"	"	"	"	
		S-1S, S-1T	A8SO	FAR 23	"	"	"	"	"	
		S-2A, S-2S, S-2B, S-2C	A8SO	FAR 23	"	"	"	"	"	
11	Beech Aircraft Corp.	18A, S18A	630	BUL 7A	"	"	"	"	"	
		19A, 23, A23, A23A, A23, C23, B23, A23-24	A1CE	CAR 3	"	"	"	"	"	
		A24, A24R, B24R, A23-19	A1CE	CAR 3	"	"	"	"	"	
		35, 35R, A35, B35, C35, D35, E35, F35, G35	A-777	CAR 3	"	"	"	"	"	"
		II35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 35-33	3A15	CAR 3	"	"	"	"	"	"
		35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33	3A15	CAR 3	"	"	"	"	"	"
		F33A, F33C, G33, 36, A36, A36TC, B36TC	3A15	CAR 3	"	"	"	"	"	"
		50, B50, C50, D50, D50A, D50B, D50C	5A4	CAR 3	"	"	"	"	"	"
		D50E, D50E-5990, E50, F50, G50, H50, J50	5A4	CAR 3	"	"	"	"	"	"
		D55, D55A, E55, E55A	3A16	CAR 3	"	"	"	"	"	"
		S6TC, A56TC	3A16	CAR 3	"	"	"	"	"	"
		58, 58A	3A16	CAR 3	"	"	"	"	"	"
		58P, 58PA, 58TC, 58TCA	A23CE	FAR 23	"	"	"	"	"	"
		60, A60, B60	A12CE	FAR 23	"	"	"	"	"	"
		65, 65-80, 65-A80, 65-88, 65-B80, A65, A65-8200, 70	3A20	CAR 3	"	"	"	"	"	"
		76	A29CE	FAR 23	"	"	"	"	"	"
77	A30CE	FAR 23	"	"	"	"	"	"		

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 <i>(See 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, 1B75A	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, A185E, A185F	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	"	"	"	"	"
		310I, 310J, 310J-1, E310J, 310K, 310L	3A10	CAR 3	"	"	"	"	"
		310N, 310P, 310R, T310P, T310R, 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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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	
15	Child Doyle F.	<i>See Aviat</i>							"
16	Christen Industries	<i>See Aviat</i>							"
17	Cirrus Design Corporation	SR20, SR22	A00009CH	FAR 23	"	"	"	"	10/17/2005
18	Clark	1000 12	2A6 2A12	CAR 8 CAR 8	"	"	"	"	1/20/2005 "
19	Commander Aircraft	112, 112B, 114, 114A, 112TC, 112TCA 114B 500, 500-A, 500-B, 500-S, 500-U, 520, 560, 560-A, 560-E 560-F, 680, 680-E, 680-F, 680-FL, 680-FL(P), 685 700 720	A12S0 A12S0 6A1 2A4 A12SW 2A4	FAR 23 FAR 23 CAR 3 CAR 3 FAR 23 CAR 3	" " " " " "	" " " " " "	" " " " " "	" " " " " "	6/1/2001 1/20/2005 " " " "
20	DeHavilland Aircraft	DH 82A DH 82A DH.C1 Chipmunk 21, DH.C1 Chipmunk 22A DH.C1 Chipmunk 22 DHC-1B-2-S3, DHC-1B-2-S5 DHC-2 Mk I (L-20A), DHC-2 Mk II DHC-3 L-20A	A5PC A8EU A44EU A44EU A26NM A-806 A-815 AR-33	FAR 21 FAR 21 FAR 21 FAR 21 FAR 21 CAR 10 CAR 10 CAR 8	" " " " " " " "	" " " " " " " "	" " " " " " " "	" " " " " " " "	1/10/2006 " " " " " " " "
21	Diamond Aircraft Industries	DA 20-A1, DA 20-C1 DA 40	TA4CH A47CE	FAR 21 FAR 21	" "	" "	" "	" "	1/20/2005 10/17/2005
22	Dornier-Werke	DO 27 Q-6 DO 28 A-1, DO 28 B-1 DO 28 D, DO 28 D-1 228-100, 228-101, 228-200, 228-201, 228-202, 228-212	A8IN 7A13 A16EU A16EU	CAR 10 CAR 10 FAR 23 FAR 23	" " " "	" " " "	" " " "	" " " "	1/20/2005 " " "
23	ERCO	<i>See Univair</i>							"
24	Extra Flugzeugbau	EA-200, EA-300, EA-300L EA-400	A67EU A43CE	FAR 23 FAR 21	" "	" "	" "	" "	10/17/2005 "
25	Forney	<i>See Univair</i>							1/20/2005
26	Globe (Swift)	GC-1A, GC-1B	A-766	CAR 4A	"	"	"	"	10/17/2005
27	Gulfstream American Corp. <i>(American General, Grumman & Tiger)</i>	AA-1, AA-1A, AA-1B, AA-1C AA-5, AA-5A, AA-5B, AG-5B	A11EA A16EA	FAR 23 FAR 23	" "	" "	" "	" "	1/20/2005 "
28	Interceptor	<i>See Prop-Jets</i>							"
29	Jodel	D-140-B DR-1050 D-1190 150	A3IN A4IN A10IN A14IN	CAR 10 CAR 10 CAR 10 CAR 10	" " " "	" " " "	" " " "	" " " "	" " " "
30	Lake (Revo)	C-1, C-2, LA-4, LA-4A, LA-4P, LA-4-200, 250	1A13	CAR3	"	"	"	"	1/10/2006
31	Lancair (Columbia)	LC40-550FG, LC42-550FG	A00003SE	FAR 23	"	"	"	"	10/17/2005

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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	
32	Marchetti	S205-18/F, S205-18/R	A9EU	FAR 21	"	"	"	"	1/20/2005
		S205-20/F, S205-20/R	A9EU	FAR 21	"	"	"	"	"
		S205-22/R	A9EU	FAR 21	"	"	"	"	"
		S208, S208A	A9EU	FAR 21	"	"	"	"	"
		F260, F260B, F260C, F260D, F260E, F260F	A10EU	CAR 3	"	"	"	"	"
		SIAI	A86EU	FAR 23	"	"	"	"	"
33	Maule	M-4, M-4C, M-4-210, M-4-210C, M-4-210S, M-4-210T	3A23	CAR 3	"	"	"	"	"
		M-5-180C, M-5-200, M-5-210C, M-5-210TC, M-5-235C	3A23	CAR 3	"	"	"	"	"
		M-6-180, M-6-235	3A23	CAR 3	"	"	"	"	"
		MXT-7-160, M-7-180, MX-7-180A, MX-7-180B, MX-7-180C	3A23	CAR 3	"	"	"	"	"
		MXT-7-180, MXT-7-180A	3A23	CAR 3	"	"	"	"	"
		M-7-235, M-7-235A, M-7-235B, M-7-235C, MT-7-235	3A23	CAR 3	"	"	"	"	"
		M-8-235	3A23	CAR 3	"	"	"	"	"
34	Messerschmitt	BO-209-150 FV & RV	A27EU	FAR 21	"	"	"	"	"
		BO-209-160 FV & RV	A27EU	FAR 21	"	"	"	"	"
		BO 209-150 FF	A27EU	FAR 21	"	"	"	"	"
35	Meyers	<i>See Prop-lets</i>							"
36	Mooney Aircraft	M-18C, M-18C55, M-18L, M-18LA	A-803	CAR 3	"	"	"	"	"
		M20, M20A thru M20G, M20J, M20K, M20M, M20R, M20S	2A3	CAR 3	"	"	"	"	"
		M22	A6SW	CAR 3	"	"	"	"	"
37	Navion	<i>See Thompson</i>							"
38	Partenavia	P-68, P-68B, P-68C, P-68C-TC	A31EU	FAR 21	"	"	"	"	"
39	Piaggio	P-166, P-166B, P-166C	7A4	CAR 10	"	"	"	"	"
		P-136-L, P-136-L1, P-136-L2	A-813	CAR 10	"	"	"	"	"
40	Pilatus	PC-6, PC-6-H1, PC-6-H2	7A15	CAR 10	"	"	"	"	"
		PC-6/350, PC-6/350-H1, PC-6/350-H2	7A15	CAR 3, 10	"	"	"	"	"
41	Piper Aircraft Co.	PA-24-250, PA-24-260, PA-24-400	1A15	CAR 3	"	"	"	"	"
		PA-25-235, PA-25-260	2A8	CAR 3	"	"	"	"	"
		PA-28-180	2A13	CAR 3	"	"	"	"	10/17/2005
		PA-28R-180, PA-28R-200	2A13	CAR 3	"	"	"	"	1/20/2005
		PA-28R-201, PA-28-201T, PA-28R-201T, PA-28-235	2A13	CAR 3	"	"	"	"	"
		PA-28-236, PA-28RT-201, PA-28RT-201T, PA-28S-180	2A13	CAR 3	"	"	"	"	"
		PA-30	A1EA	CAR 3	"	"	"	"	"
		PA-31, PA-31-300, PA-31-325, PA-31-350	A20SO	CAR 3	"	"	"	"	"
		PA-31P, PA-31P-350	A8EA	CAR 3	"	"	"	"	"
		PA-32-260, PA-32-300, PA-32R-300, PA-32RT-300	A3SO	CAR 3	"	"	"	"	"
		PA-32S-300, PA-32-301, PA-32-301T, PA-32R-301	A3SO	CAR 3	"	"	"	"	"
		PA-32R-301T, PA-34-200, PA-34-200T, PA-34-220T	A7SO	FAR 23	"	"	"	"	"
		PA-36-285, PA-36-300, PA-36-375	A9SO	FAR 23	"	"	"	"	"

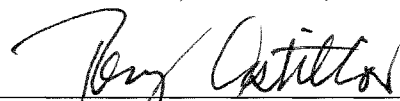
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		PA-39, PA-40	A1EA	CAR 3	"	"	"	"	"
		PA-44-180, PA-44-180T	A19SO	FAR 23	"	"	"	"	"
		PA-46-310P, PA-46-350P	A25SO	FAR 23	"	"	"	"	"
42	Pitts	<i>See Aviat</i>							
43	Prop-Jets (Interceptor) <i>(Aero Commander & Meyers)</i>	200, 200A, 200B, 200D, 400	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 Aircart <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, L5-D, L5-E, L5-E-1	A-764	CAR 4A	"	"	"	"	"
54	Varga	<i>See Augustair Inc.</i>							
55	WSK- "PZL-Mieliec" 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