

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

Number SA00680SE

This certificate, issued to

Electronics International
2092 NW Alcock #523
Hillsboro, OR 97124

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. SA00680SE for a list of the approved airplane

Model:

models and applicable airworthiness regulations.

Description of the Type Design Change: Installation of Electronics International Inc. Model UBG-16, or UBG-16T bar graph engine analyzer in accordance with Electronics International Inc. Master Drawing List MDL 1111982, Revision "New", dated November 11, 1998, and Installation Instructions II 1111981, dated November 11, 1998, or later FAA approved revisions.

NOTE: The UBG-16 and UBG-16T listed here are designed as advisory engine analyzers, and are not to be used as primary engine instruments.

Limitations and Conditions: Approval of this change in type design applies to the aircraft models listed on the AML only. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate and AML No. SA00680SE 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: November 12, 1998

Date reissued:

Date of issuance: March 10, 1999

Date amended:



By direction of the Administrator
[Signature]

(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.

FOR

INSTALLATION OF ELECTRONICS INTERNATIONAL DIGITAL AUTOMATIC ENGINE ANALYZERS

ISSUE DATE: March 10, 1999

ITEM	AIRPLANE MAKE	AIRPLANE MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	FAA MASTER DRAWING LIST		INSTALLATION INSTRUCTIONS And Date	AML REVISION DATE
					NUMBER	REV		
1.	Aerocar Inc.	I	4A16	CAR 3	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
2.	Aeronca Inc. (Also see Trytek)	C-2 Series C-3 Series K&50 Series L Series 15 Series	ATC 351 A 396 688, 676 ATC 596 & 614 A802	ATC 351 Aero Bul. 7-A 688, 676 ATC 596 & 614 CAR 3	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
3.	Aerospatiale (Also see Socata)	SE 3160 Alovette III SA 315 Series SA 316 Series SA 319 Series 262A Series SN-601 SA-350 & 360 Series SA-365 Series	H1 IN H1 IN H1 IN H1 IN H1 IN A6EU A37EU H8 EU H10 EU	CAR 10 CAR 10 CAR 10 CAR 10 CAR 10 CAR 10 FAR 21.29 FAR 21.29 FAR 21.29	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
4.	Aircraft Associates Inc.	J-2	ATC 620	ATC 620	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
5.	Air Tractor Inc.	AT-300, -302, -400	A9SW	FAR 21.25(a)(1)	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
6.	Artic Aircraft Co.	S-1A Series S1B Series	A737 A754	CAR 4a CAR 4a	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
7.	Ayres Corp.	S2R S Series 600 Series S2R Series	A3SW A4SW 2A9 2A7 A3SW	CAR 3 CAR 8 CAR 8.10(a)(1) CAR 8.10(a)(1) CAR 3	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
8.	Ballauer	Funk Series	2-564	CAR 04.031	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
9.	The Balloon Works	Fire Flys	A14SO	FAR 31	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release

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10.	Beech Aircraft Corp.	B17B, B17L, SB17L	ATC 560	CAR 4a	MDL	I.R.	II 1111981 11/11/98	Initial Release
		B17R	ATC579	CAR 4a	1111982			
		C17B, C17L	ATC 602	CAR 4a				
		C17R	ATC604	CAR 4a				
		18 Series	A-757, A-765	CAR 4a				
		19, 23, 24 Series	A1CE	CAR Part 3				
		33, 35, 36 Series	3A15	CAR Part 3				
		45 Series	5A3	CAR Part 03				
		50 Series	5A4	CAR Part 3				
		60 Series	A12CE	FAR Part 23				
		65, 70, 90 Series	3A20	CAR 3				
		76 Series	A29CE	FAR Part 23				
		77 Series	A30CE	FAR Part 23				
		F90 Series	A31CE	FAR Part 23				
		95, 55, 56, 58 Series	3A16	CAR Part 3				
			A23CE	FAR Part 23				
		99, 100 Series	A14CE	FAR Part 23				
		200 Series	A24CE	FAR Part 23				
		300, 1900, 1900C Series	A24CE	FAR Part 23				
11.	Bell Helicopter Textron	47 Series	H-1, 2H3	FAR Part ??	MDL	I.R.	II 1111981 11/11/98	Initial Release
			2-H1		1111982			
		204 & 205 Series	H1SW	CAR 7				
		212 Series	H4SW	FAR Part 29				
		214 Series	H6SW	FAR Part 29				
		222 Series	H9SW	FAR Part 29				
		206 Series	H2SW	CAR 6				

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12.	Bellanca Aircraft Corp.	7 Series 11 Series 14 & 17 Series 8 Series 300 Series 400 Series	A-759 A-761, 796 A18CE A21CE ATC 328 ATC 319	CAR 4a CAR 4a FAR Part 23 FAR Part 23 ATC 328 ATC 319	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
13.	British Aerospace	Twin Pioneer Series 2&3 Beagle B206 Series 1&2 Beagle B121 Series 1, 2, & 3	7A7 A11EU A22EU A22CE	CAR 10 FAR 21.29 FAR 21.29	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
14.	Camair Aircraft Corp	Navion 480	2A2	CAR 3	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release

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15.	Cessna Aircraft (Also see Reims)	120, 140 Series 150, 152 Series 170 Series 172, 175 Series 177 Series 180 Series 182, 185 Series 188 Series 190, 195 Series 206 Series 207 Series 210 Series 303, 305 Series 310 Series 320, 335, 340 Series 336 337 401, 402, 411, 414, 421, 425 Series 404	A768, 5A2 3A19 A799 3A12, 3A17 A13CE, A20CE 5A6 3A13, 3A24 A9CE A-790 A4CE A16CE 3A21 5A5, 3A14 3A10 3A25 A2CE A6CE A7CE A25CE	CAR 4a CAR 3 CAR Part 3 CAR Part 03 CAR Part 3 FAR Part 23 CAR Part 3 CAR Part 3 FAR Part 23 CAR Part 3 CAR Part 3 FAR Part 23 CAR Part 3 CAR Part 3 CAR Part 3 CAR Part 3 CAR Part 3 CAR Part 3 CAR Part 3 FAR Part 23	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
16.	Christen Industries Inc	S-1, S-2 Series (Pitts)	A8SO	FAR Part 21	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
17.	Child, Doyle F.	S-1, S-2 Series (Pitts)	A8SO	FAR Part 21	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
18.	Consolidated Aeronautic	Colonial C. Series Lake LA Series	LA13	CAR 03	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release

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19.	De Havilland	DH Series	A8EU	FAR 21.29	MDL 1111982	I.R.	11 1111981 11/11/98	Initial Release
			2-439	FAR 21.29				
			2-393	FAR 21.29				
			7A10	CAR 10				
			A-816	CAR 10				
			A-807	CAR 10				
		DHC Series	A9EA	CAR 3				
			AR-33	CAR 8				
			AR-13	CAR 8				
			1A19	CAR 10				

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20.	Enstrom Helicopters	F Series 280 Series	HICE	CAR Part 6	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
21.	Great Lakes	2T Series	ATC354 ATC-167 2-3339 ATC22B A18EA	ATC354 ATC-167 2-3339 ATC228 FAR 23	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
22.	Gulfstream Aerospace	111 Series 112 Series 114 Series	11SO A12SO A12SO	FAR Part 23	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
23.	Gulfstream American Commander Division	Grumman: G164 Series G Series AA Series GA Series 500 Series 111 112, 114 Series	1A16 1A17, A12EA A11EA, A16EA A17SO 6A1 A11SO A12SO	CAR 8.10 CAR 4b FAR Part 23 FAR Part 23 CAR Part 3 FAR Part 23 FAR Part 23	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
24.	Helio Aircraft LTD (Navion)	H-250 H-295 HT-295 H-391 H-391B H-395 H395A 500	1A8 1A8 1A8 1A8 1A8 1A8 1A8 A2EA	CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 3	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
25	Miller Aviation	UH-12 Series	6H1, 6H2, 4H10, 4H11, H1WE	CAR 6	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
26	Hughes Helicopters	300 Series 269 Series	4H12	CAR Part 6	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release

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27.	Ilynes	H-2, H-4	2H2	CAR Part 6	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
28.	Industrie Aeronautic he E Meccaniche (See Piaggio)	PD 808/526 P-166 Series	A12EU 7A4	FAR 21.29 CAR 10	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
29.	Lake	See Consolidated Aeronautics			MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
30.	Maule Aircraft Corp	M Series	3A23	CAR Part 3	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
31.	McDonnell Douglas	DC3 Series DC4 Series	A-807 A-618	CAR 4 CAR 4	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
32.	Mooney	M20 Series M22	2A3 A6SW	CAR 3 CAR 3	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
33.	Navion	See Camiar Ryan and Thompson			MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
34.	North American Aviation	AT-6	A-2-575	CAR 4a	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
35.	Partenavia Costruzioni Aeronautiche	P68 Series	A31EU	FAR 21.29	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
36.	Piaggio (See Industrie)	P.136-L Series	A813	CAR 10	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
37.	Pilatus Britten- Norman	BN Series	A17EU	FAR 21.29	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release

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38.	Piper Aircraft Corp.	2 Series	ATC595	ATC595	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
		J3 Series	ATC660	ATC660				
			A-691	CAR 4a				
			A-692	CAR 4a				
			A-698	CAR 4a				
			695	695				
		J4 Series	A-703	CAR 4a				
			708	708				
			A-740, 721	CAR 4a				
		J5 Series	A-725	CAR 4a				
		PA12 Series	A-780	CAR 3				
		PA14 Series	A-797	CAR 3				
		PA15 Series	A-800	CAR 3				
		PA16 Series	1A1	CAR 3				
		PA17 Series	A-805	CAR 3				
		PA18 Series	1A2	CAR 3				
			AR-7	CAR 8.10(b)				
		PA20 Series	1A4	CAR 3				
		PA22 Series	1A61EU	CAR 3				
		PA23 Series	1A10	CAR 3				
		PA24 Series	1A15	CAR 3				
		PA25 Series	2A8	CAR 3				
			2A10	CAR 8.10(b)				
		PA28 Series	2A13	CAR 3				
		PA30,39, & 40 Series	A1EA	CAR 3				
		PA31 Series	A8EA	CAR 3 (FAR 23)				
		PA32 Series	A3SO	CAR 3				
		PA34 Series	A7SO	FAR 23				
		PA36 Series	A9SO	FAR 23				
			A10SO	FAR 21				
		PA38 Series	A18SO1	FAR 23				
		PA44 Series	A19SO	FAR 23				
		PA46 Series	A25SO	FAR 23				
		PA-60-600, -601, -601P, --602P, -700P	A17WE	FAR 23				

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39.	Pitts	See Child			MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
40.	Prop Jets Inc. (Aero Commander	200 Series	3A18	CAR 3	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
41.	Reims Aviation (Cessna)	172 Series 150 Series 182 Series 337 Series 177 Series	A4EU A18EU A13EU A42EU A23EU A26EU	CAR 10 FAR 21.29 FAR 21.29 CAR 3 FAR 21.29 FAR 23	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
42.	Robinson Helicopter	R 22	H10WE	FAR 27	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
43.	Rockwell International (Sec Ayres)	111 Series 112 & 114 Series 500, 520, 560, 680, 681, 690, 695, 720	A12SO A7SO 6A1	FAR 23 FAR 23 CAR 3	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
44.	Rusr, Robert F. (Chipmunk)	21, 22 Series	A44EU	FAR 21.29	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
45.	Ryan Aeronautical Co.	SCW-145 ST Series	658 ATC 571 ATC 681 A-749	CAR 4a CAR 4a CAR 4a CAR 4a	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
46.	Ryan Aircraft Corp.	B Series	ATC 25	CAR 4a	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release

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47.	Sikorsky Aircraft	HH9 Series S-39 Series S-41-B S-43 Series VS-44-A S-51 Series S-52 Series S-55 Series S-58 Series S-61 Series S-62A Series S-64 Series S-76 Series	H1NE	FAR 21.25 FAR 21.25 FAR 21.25 Aero Bul-7A CAR 4a CAR 6 CAR 6 CAR 6 CAR 6 CAR 7 CAR 7 CAR 8 FAR 29	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
48.	Socata Group Aerospatiale	TB9, 10, 20, 21	A51EU	????	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
49.	Stearman Aircraft	C3 Series 4 Series 6 Series	ATC55 2-159 2-445 ATC-305 2-155 ATC-305 ATC-292 ATC459	ATC55 2-159 2-445 ATC-305 2-155 ATC-305 ATC-292 ATC459	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release

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50.	Stinson	SM Series	ATC16 ATC136 ATC48 ATC45 ATC61 ATC94 ATC98	ATC16 ATC136 ATC48 ATC45 ATC61 ATC94 ATC98	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
		SR Series	ATC519 ATC530 ATC580 ATC594 ATC608 ATC609	ATC519 ATC530 ATC580 ATC594 ATC608 ATC609				
		SR Series	ATC621 ATC625 ATC640	ATC621 ATC625 ATC640				
51.	STOL Amphibian Corp.	UC-1 (Twin-Bee) Republic RC-3	A6EA A-769	CAR 3 CAR 03	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
52.	Swift Museum Foundation	GC Series	A-766	CAR 4a	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
53.	Taylorcraft Aviation	BC & BCS Series 19 & F21 DC Series BF Series BL Series	A-696 1A9 A746 A-699 A-700	CAR Part 04 CAR Part 3 CAR 4a CAR 4a CAR 4a	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
54.	Thompson, Jimmie, Enterprise (Navion)	A through Z Series	A-782	CAR 3	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release

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55.	Trytek, E.J.	Aeronca CF, KC Aeronca K, KS	ATC 655 A-634	Aero Bul. 7a Aero Bul 7a	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
56.	Univar Aircraft Corp.	108 Series	A-767 A2EA	CAR 3	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
	(Forney)	F-1 & F-1A	A-787	CAR 3				
	(Erco)	E & G	A-787	CAR 3				
	(Erco)	415D	A787	CAR 3				
	(Alon)	A-2 & A-2A	A787	CAR 3				
	(Mooney)	M10	A787	CAR 3				
	(Erco)	415C & 415CD	A787	CAR 4a				
57.	Varga Aircraft Corp.	2150 Series	4A19	CAR 3	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release

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58.	Waco Aircraft	A Series	ATC26	ATC26	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release
			644	644				
			677	677				
			598	598				
			714	CAR 4a				
		B & C Series	ATC41	ATC41				
			ATC123	ATC123				
			ATC168	ATC168				
			ATC538	ATC538				
			ATC639	ATC639				
		D Series	ATC597	ATC597				
			ATC42	ATC42				
			665	665				
		E Series	2-430	2-430				
			ATC 13	ATC 13				
		G Series	2-363	2-363				
			2-361	2-361				
		I, J, K Series	ATC 313	ATC 313				
			ATC468	ATC468				
		O, P, Q Series	ATC464	ATC464				
			ATC491	ATC491				
			ATC453	ATC453				
			ATC502	ATC502				
			ATC466	ATC466				
		R & S Series	ATC311	ATC311				
			ATC543	ATC543				
			ATC542	ATC542				
		U, Y, Z Series	ATC586	ATC586				
			ATC627	ATC627				

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59.	Weatherly Aviation	201 Series 620 Series	A10WE A26WE	FAR 21.25 FAR 21.25	MDL 1111982	I.R.	II 1111981 11/11/98	Initial Release

Approved

Acting Manager, Seattle
Aircraft Certification Office