

Department of Transportation—Federal Aviation Administration

# Supplemental Type Certificate

*Number* SA00680SE

*This certificate, issued to* **Electronics International  
63296 Powell Butte Highway  
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. 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 of issuance:* March 10, 1999

*Date reissued:* July 8, 2005  
*Date amended:*



*By direction of the Administrator*  
*[Signature]*  
(Signature)

*of* 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.

**FAA Approved Model List (AML) SA00680SE**  
**For**  
**Electronics International, Inc. Digital Automatic Engine Analyzers**

Issue Date: March 10, 1999

Item	Aircraft Make	Aircraft Model	Original Type Certificate Number	Certification Basis For Alteration	FAA Sealed Drawings		Installation Instructions		AML Amended Date
					Number	Revision	Number	Revision	
---	-----	-----	-----	-----	MDL 1111982	11/11/98 IR or Later FAA Approved Revision	II 1111981	11/11/98 IR or Later FAA Approved Revision	-----
1	<b>Aero Commander (Voltaire)</b>	10, 10A, 100, 100A, 100-180	1A21	CAR 3	"	"	"	"	7/8/2005
2	<b>Aerocar Inc.</b>	I	4A16	CAR 3	"	"	"	"	Initial Release
3	<b>Aeronca Inc.</b> <i>(Also See American Champion)</i>	C-2 Series	ATC 351	ATC 351	"	"	"	"	Initial Release
		C-3 Series	A 396	Aero Bul. 7-A	"	"	"	"	Initial Release
		K&50 Series	688, 676	688, 676	"	"	"	"	Initial Release
		L Series	ATC 596 & 614	ATC 596 & 614	"	"	"	"	Initial Release
		I5 Series	A802	CAR 3	"	"	"	"	Initial Release
		50-L, 50-LA, 65-LA, 65-LB	A-702	CAR 4A	"	"	"	"	7/8/2005
4	<b>Aeromot</b>	AMT-100, AMT-200, AMT-200S, AMT-300	TG00004AT	CFR 21	"	"	"	"	7/8/2005
5	<b>Aerospatiale</b> <i>(Also see Socata)</i>	SE 3160 Alovette	H1 IN	CAR 10	"	"	"	"	Initial Release
		III	H1 IN	CAR 10	"	"	"	"	Initial Release
		SA 315 Series	H1 IN	CAR 10	"	"	"	"	Initial Release
		SA 316 Series	H1 IN	CAR 10	"	"	"	"	Initial Release
		SA 319 Series	H1 IN	CAR 10	"	"	"	"	Initial Release
		262A Series	A6EU	CAR 10	"	"	"	"	Initial Release
		SN-601	A37EU	FAR 21.29	"	"	"	"	Initial Release
		SA-350 Series, 360 Series	H8 EU	FAR 21.29	"	"	"	"	Initial Release
SA-365 Series	H10 EU	FAR 21.29	"	"	"	"	Initial Release		
6	<b>Aircraft Associates Inc.</b>	J-2	ATC 620	ATC 620	"	"	"	"	Initial Release
7	<b>Air Tractor</b>	AT-300, -302, -400	A9SW	FAR 21.25(a)(1)	"	"	"	"	Initial Release
8	<b>Artic Aircraft Co.</b>	S-1A Series	A737	CAR 4a	"	"	"	"	Initial Release
		S1B Series	A754	CAR 4a	"	"	"	"	Initial Release
9	<b>Alliance Aircraft Group</b> <i>(Helio Enterprises)</i>	H-250, H-295, HT-295	1A8	CAR 3	"	"	"	"	7/8/2005
		H-391B, H-395, H395A	1A8	CAR 3	"	"	"	"	7/8/2005
		H-391	1A8	CAR 3	"	"	"	"	7/8/2005
		H-700, H-800	1A8	CAR 3	"	"	"	"	7/8/2005
10	<b>Alon</b>	<i>See Univair</i>	-----	-----	-----	-----	-----	-----	7/8/2005
11	<b>American Champion</b> <i>(Aeronca, Bellanca, Trytek)</i>	7AC, 7BCM, 7DC, S7DC	A-759	CAR 4A	"	"	"	"	7/8/2005
		7CCM, S7CCM	A-759	CAR 4A	"	"	"	"	7/8/2005
		7JC, 7EC, S7EC, 7HC, 7KC	A-759	CAR 4A	"	"	"	"	7/8/2005
		7GCA, 7GCB, 7GCA, 7KCAB, 7ECA, 7GCBC	A-759	CAR 4A	"	"	"	"	7/8/2005
		7KCAB, L-16A, L-16B	A-759	CAR 4A	"	"	"	"	7/8/2005
		7GCBA	A-759	CAR 8	"	"	"	"	7/8/2005
		8KCAB, 8GCBC	A2ICE	FAR 23	"	"	"	"	7/8/2005
		11AC, 11BC, S11AC, S11BC	A-761	CAR 4A	"	"	"	"	7/8/2005
11CC, S11CC	A-796	CAR 3	"	"	"	"	7/8/2005		
12	<b>American General Aircraft</b>	<i>See Gulfstream American</i>	-----	-----	-----	-----	-----	-----	7/8/2005
13	<b>Augustair Inc. (Varga)</b>	2150, 2150A, 2180	4A19	CAR 3	"	"	"	"	7/8/2005
14	<b>Aviat Inc.</b>	A-1, A-1A, A-1B	A22NM	FAR 23	"	"	"	"	7/8/2005

**FAA Approved Model List (AML) SA00680SE**  
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**Electronics International, Inc. Digital Automatic Engine Analyzers**

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Item	Aircraft Make	Aircraft Model	Original Type Certificate Number	Certification Basis For Alteration	FAA Sealed Drawings		Installation Instructions		AML Amended Date
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					MDL 1111982	11/11/98 IR or Later FAA Approved Revision	II 1111981	11/11/98 IR or Later FAA Approved Revision	
	<i>(Pitts, Sky, Child F. Doyle)</i> <i>(Christen Industries)</i>	S-1 Series	A8SO	FAR 23	"	"	"	"	Initial Release
		S-2 Series	A8SO	FAR 23	"	"	"	"	Initial Release
15	<b>Ayres Corp.</b>	S2R Series	A3SW	CAR 3	"	"	"	"	Initial Release
		S2R Series	A4SW	CAR 8	"	"	"	"	Initial Release
		S Series	2A7	CAR 8.10(a)(1)	"	"	"	"	Initial Release
		S Series	2A9	CAR 8.10(a)(1)	"	"	"	"	Initial Release
		600 Series	A3SW	CAR3	"	"	"	"	Initial Release
16	<b>Ballauer</b>	Funk Series	2-564	CAR 04.031	"	"	"	"	Initial Release
17	<b>Beech Aircraft Corp.</b>	B17B, B17L, SB17L	ATC 560	CAR 4A	"	"	"	"	Initial Release
		B17R	ATC 579	CAR 4A	"	"	"	"	Initial Release
		C17B, C17L	ATC 602	CAR 4A	"	"	"	"	Initial Release
		C17R	ATC 604	CAR 4A	"	"	"	"	Initial Release
		18 Series	A-757, A-765	CAR 4A	"	"	"	"	Initial Release
		19 Series, 23 Series, 24 Series	A1CE	CAR Part 3	"	"	"	"	Initial Release
		33 Series, 35 Series, 36 Series	3A15	CAR Part 3	"	"	"	"	Initial Release
		45 Series	5A3	CAR Part 3	"	"	"	"	Initial Release
		50 Series	5A4	CAR Part 3	"	"	"	"	Initial Release
		60 Series	A12CE	FAR Part 23	"	"	"	"	Initial Release
		65 Series, 70 Series, 90 Series	3A20	CAR 3	"	"	"	"	Initial Release
		76 Series	A29CE	FAR Part 23	"	"	"	"	Initial Release
		77 Series	A30CE	FAR Part 23	"	"	"	"	Initial Release
		F90 Series	A31CE	FAR Part 23	"	"	"	"	Initial Release
		95 Series, 55 Series, 56 Series	3A16	CAR Part 3	"	"	"	"	Initial Release
		58 Series	A23CE	FAR Part 23	"	"	"	"	Initial Release
		99 Series, 100 Series	A14CE	FAR Part 23	"	"	"	"	Initial Release
200 Series	A24CE	FAR Part 23	"	"	"	"	Initial Release		
300 Series, 1900 Series, 1900C Series	A24CE	FAR Part 23	"	"	"	"	Initial Release		
18	<b>Bell Helicopter (Textron)</b>	47 Series	H-1, 2H3, 2-H1	FAR Part 29	"	"	"	"	Initial Release
19	<b>Bellanca Aircraft Corp.</b> <i>(Also See American Champion)</i>	7 Series	A-759	CAR 4A	"	"	"	"	Initial Release
		11 Series	A-761, 796	CAR 4A	"	"	"	"	Initial Release
		14 Series, 17 Series	A18CE	FAR Part 23	"	"	"	"	Initial Release
		8 Series	A21CE	FAR Part 23	"	"	"	"	Initial Release
		300 Series	ATC 328	ATC 328	"	"	"	"	Initial Release
		400 Series	ATC 319	ATC 319	"	"	"	"	Initial Release
		DW-1	A4NW	FAR 21	"	"	"	"	7/8/2005
20	<b>Boeing Aircraft</b>	75 thru E75, A75J1, A75L300, A75N1 thru E75N1, 1B75A	A-743	CAR 4A	"	"	"	"	7/8/2005
21	<b>British Aerospace</b>	Twin Pioneer Series 2 & 3	7A7	CAR 10	"	"	"	"	Initial Release
		Beagle B206 Series 1 & 2	A11EU	FAR 21.29	"	"	"	"	Initial Release
		Beagle B121 Series 1, 2 & 3	A22EU	FAR 21.29	"	"	"	"	Initial Release

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22	<b>Camair Aircraft Corp.</b>	Navion 480	2A2	CAR 3	"	"	"	"	Initial Release
23	<b>Cessna Aircraft</b> <i>(Also see Reims)</i>	120 Series, 140 Series	A768 & 5A2	CAR 4A	"	"	"	"	Initial Release
		C-145, C-165	A-701	CAR 4A	"	"	"	"	7/8/2005
		150 Series, 152 Series	3A19	CAR Part 3	"	"	"	"	Initial Release
		170 Series	A799	CAR Part 3	"	"	"	"	Initial Release
		172 Series, 175 Series	3A12, 3A17	CAR Part 3	"	"	"	"	Initial Release
		177 Series	A13CE, A20CE	FAR Part 23	"	"	"	"	Initial Release
		180 Series	5A6	CAR Part 3	"	"	"	"	Initial Release
		182 Series, 185 Series	3A13, 3A24	CAR Part 3	"	"	"	"	Initial Release
		188 Series	A9CE	FAR Part 23	"	"	"	"	Initial Release
		190 Series, 195 Series	A-790	CAR Part 3	"	"	"	"	Initial Release
		206 Series	A4CE	CAR Part 3	"	"	"	"	Initial Release
		207 Series	A16CE	FAR Part 23	"	"	"	"	Initial Release
		210 Series	3A21	CAR Part 3	"	"	"	"	Initial Release
		303 Series, 305 Series	5A5, 3A14	CAR Part 3	"	"	"	"	Initial Release
		310 Series	3A10	CAR Part 3	"	"	"	"	Initial Release
		320 Series, 335 Series, 340 Series	3A25	CAR Part 3	"	"	"	"	Initial Release
		321	3A11	CAR Part 3	"	"	"	"	7/8/2005
		336	A2CE	CAR Part 3	"	"	"	"	Initial Release
		337	A6CE	CAR Part 3	"	"	"	"	Initial Release
		401 Series, 402 Series, 411 Series, 414 Series, 421 Series, 425 Series	A7CE	CAR Part 3	"	"	"	"	Initial Release
404	A25CE	FAR Part 23	"	"	"	"	Initial Release		
406	A25CE	FAR Part 23	"	"	"	"	7/8/2005		
24	<b>Christen Industries Inc.</b>	See Aviat							Initial Release
25	<b>Child, Doyle F.</b>	See Aviat							Initial Release
26	<b>Clark</b>	1000	2A6	CAR 8	"	"	"	"	7/8/2005
		12	2A12	CAR 8	"	"	"	"	7/8/2005
27	<b>Commander Aircraft</b>	111 Series, 112 Series	A12S0	FAR 23	"	"	"	"	Initial Release
		114 Series	A12S0	FAR 23	"	"	"	"	Initial Release
		500 Series, 520, 560-A, 560-E	6A1	CAR 3	"	"	"	"	7/8/2005
		560-F, 680, 680-E, 680-F, 680FL, 685	2A4	CAR 3	"	"	"	"	7/8/2005
		700	A12SW	FAR 23	"	"	"	"	7/8/2005
		720	2A4	CAR 3	"	"	"	"	7/8/2005
114B	A12S0	FAR 23	"	"	"	"	7/8/2005		
28	<b>Consolidated Aeronautic</b> <i>(Lake)</i>	Colonial C. Series	1A13	FAR Part 23	"	"	"	"	Initial Release
		Lake LA Series	1A13	FAR Part 23	"	"	"	"	Initial Release
29	<b>De Havilland</b> <i>(Bombardier, Inc.)</i>	DH Series	A8EU	FAR 21.29	"	"	"	"	Initial Release
		DH Series	2-439	FAR 21.29	"	"	"	"	Initial Release
		80A	2-393	FAR 21.29	"	"	"	"	7/8/2005

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		DH Series	A-816	CAR 10	"	"	"	"	Initial Release
		DH Series	A-807	CAR 10	"	"	"	"	Initial Release
		L-20A	AR-33	CAR 8	"	"	"	"	7/8/2005
		DHC Series	AR-13	CAR 8	"	"	"	"	Initial Release
		DHC Series	1A19	CAR 10	"	"	"	"	Initial Release
30	<b>Diamond Aircraft Industries</b>	DA 20-A1, DA 20-C1	TA4CH	FAR 21	"	"	"	"	7/8/2005
	<b>Dornier-Werke</b>	DO 27 Q-6	A8IN	CAR 10	"	"	"	"	7/8/2005
		DO 28 A-1, DO 28 B-1	7A13	CAR 10	"	"	"	"	7/8/2005
		DO 28 D, DO 28 D-1	A16EU	FAR 23	"	"	"	"	7/8/2005
		228-100, 228-101, 228-200, 228-201, 228-202, 228-212	A16EU	FAR 23	"	"	"	"	7/8/2005
31	<b>Enstrom Helicopter</b>	F Series & 280 Series	HICE	CAR Part 6	"	"	"	"	Initial Release
32	<b>ERCO</b>	<i>See Univair</i>							7/8/2005
33	<b>Extra Flugzeugbau</b>	EA-300, EA-300S, EA 300/200, 300L	A67EU	FAR 23	"	"	"	"	7/8/2005
34	<b>Fairchild</b>	24R9, 24R9S, 24R40, 24R40S, 24R46, 24R46A, 24R46S	A-706	CAR 4A	"	"	"	"	7/8/2005
		24W-9, 24W-9S, 24W-40, 24W-40S, 24W-41, 24W-41A	A-707	CAR 4A	"	"	"	"	7/8/2005
		24W-41AS, 24W-41S, 24W-46, 24W-46S	A-707	CAR 4A	"	"	"	"	7/8/2005
		M62A, M62A-3, M62A-4, M62B, M62C, M-628	A-724	CAR 4A	"	"	"	"	7/8/2005
		24 C8C, 24 C8CS	A-535	BUL 7A	"	"	"	"	7/8/2005
		M-84-C	A-2-599	CAR 4A	"	"	"	"	7/8/2005
35	<b>Forney</b>	<i>See Univair</i>							7/8/2005
36	<b>Fuji</b>	FA-200-160, 180, 180AO	A4PC	CAR 10	"	"	"	"	7/8/2005
37	<b>Globe</b>	GC-1A, GC-1B	A-766	CAR 4A	"	"	"	"	7/8/2005
38	<b>Great Lakes</b>	2T Series	ATC354	ATC354	"	"	"	"	Initial Release
		2T Series	ATC-167	ATC-167	"	"	"	"	Initial Release
		2T Series	2-3339	2-3339	"	"	"	"	Initial Release
		2T Series	ATC22B	ATC228	"	"	"	"	Initial Release
		2T Series	A18EA	FAR 23	"	"	"	"	Initial Release
39	<b>Grob</b>	G-115, 115A, 115B, 115C, 115C2, 115D, 115D2	A-57EU	FAR 21	"	"	"	"	7/8/2005
40	<b>Gulfstream Aerospace</b>	111 Series	11SO	FAR Part 23	"	"	"	"	Initial Release
		112 Series	A12SO	FAR Part 23	"	"	"	"	Initial Release
		114 Series	A12SO	FAR Part 23	"	"	"	"	Initial Release
41	<b>Gulfstream American</b> <i>(American General)</i> <i>(Grumman Aircraft)</i> <i>(Tiger Aircraft)</i> <i>(Socata Group Aerospatiale)</i>	Grumman:							Initial Release
		G164 Series	1A16	CAR 8.10	"	"	"	"	Initial Release
		G Series	1A17, A12EA	CAR 4B	"	"	"	"	Initial Release
		GA Series	A17SO	FAR Part 23	"	"	"	"	Initial Release
		AA Series	A11EA, A16EA	FAR Part 23	"	"	"	"	Initial Release
42	<b>Helio Aircraft</b> <i>(Also see Alliance Aircraft)</i>	H-250	1A8	CAR 3	"	"	"	"	Initial Release
		15A, 20	3A3	CAR 4A	"	"	"	"	7/8/2005
43	<b>Hiller</b>	UH-12 Series	6H1	CAR 6	"	"	"	"	Initial Release

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		UH-12 Series	6H2	CAR 6	"	"	"	"	Initial Release
		UH-12 Series	4H10	CAR 6	"	"	"	"	Initial Release
		UH-12 Series	4H11	CAR 6	"	"	"	"	Initial Release
		UH-12 Series	H1WE	CAR 6	"	"	"	"	Initial Release
44	<b>Hughes Helicopters</b>	300 & 269 Series	4H12	CAR Part 6	"	"	"	"	Initial Release
45	<b>Hynes</b>	H-2, H-4	2H2	CAR Part 6	"	"	"	"	Initial Release
46	<b>Industrie Aeronautiche E Meccaniche</b>	PD 808/526	A12EU	FAR 21.29	"	"	"	"	Initial Release
		P-166 Series	7A4	CAR 10	"	"	"	"	Initial Release
47	<b>Interceptor</b>	<i>See Prop-Jets</i>							7/8/2005
48	<b>Jodel</b>	D-140-B	A3IN	CAR 10	"	"	"	"	7/8/2005
		DR-1050	A4IN	CAR 10	"	"	"	"	7/8/2005
		D-1190	A10IN	CAR 10	"	"	"	"	7/8/2005
		150	A14IN	CAR 10	"	"	"	"	7/8/2005
49	<b>Lake</b>	<i>See Consolidated Aeronautics</i>							Initial Release
	<b>LTD (Navion)</b>	H-295	1A8	CAR 3	"	"	"	"	Initial Release
		HT-295	1A8	CAR 3	"	"	"	"	Initial Release
		H-391	1A8	CAR 3	"	"	"	"	Initial Release
		H-391B	1A8	CAR 3	"	"	"	"	Initial Release
		H-395	1A8	CAR 3	"	"	"	"	Initial Release
		H395A	1A8	CAR 3	"	"	"	"	Initial Release
		500	A2EA	CAR 3	"	"	"	"	Initial Release
50	<b>Luscombe</b>	8A thru 8F, T-8F	A-694	CAR 4A	"	"	"	"	7/8/2005
51	<b>Marchetti</b> <i>(Also see SIAL)</i>	S205-18/F, -18/R	A9EU	FAR 21	"	"	"	"	7/8/2005
		S205-20/F, -20/R	A9EU	FAR 21	"	"	"	"	7/8/2005
		S205-22/R	A9EU	FAR 21	"	"	"	"	7/8/2005
		S208, S208A	A9EU	FAR 21	"	"	"	"	7/8/2005
		F260, F260B-F	A10EU	CAR 3	"	"	"	"	7/8/2005
52	<b>Maule Aircraft Corp.</b>	M Series	3A23	CAR Part 3	"	"	"	"	Initial Release
53	<b>McDonnell Douglas</b>	DC3 Series	A-807	CAR 4	"	"	"	"	Initial Release
		DC4 Series	A-618	CAR 4	"	"	"	"	Initial Release
54	<b>Mevers</b>	<i>See Prop-Jets</i>							7/8/2005
55	<b>Mooney</b>	M-18C, M-18C55, M-18L, M-18LA	A-803	CAR 3	"	"	"	"	7/8/2005
		M20 Series	2A3	CAR 3	"	"	"	"	Initial Release
		M22	A6SW	CAR 3	"	"	"	"	Initial Release
56	<b>Navion</b>	<i>See Camiar Ryan and Thompson</i>							Initial Release
57	<b>North American Aviation</b>	AT-6	A-2-575	CAR 4A	"	"	"	"	Initial Release
58	<b>Partenavia Costruzioni Aeronautiche</b>	P68 Series	A31EU	FAR 21.29	"	"	"	"	Initial Release
									Initial Release
59	<b>Piaggio</b>	P.136-L Series	A813	CAR 10	"	"	"	"	Initial Release

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	<i>(Also see Industrie)</i>	P-166, P-166B, P-166C	7A4	CAR 10	"	"	"	"	7/8/2005
60	Pilatus Britten-Norman	BN Series	A17EU	FAR 21.29	"	"	"	"	Initial Release
		PC-6, PC-6-H1, PC-6-H2	A17EU	CAR 3	"	"	"	"	7/8/2005
61	Piper Aircraft	2 Series	ATC595	ATC595	"	"	"	"	Initial Release
		J3 Series	ATC660	ATC660	"	"	"	"	Initial Release
		J3 Series	A-691	CAR 4A	"	"	"	"	Initial Release
		J3 Series	A-692	CAR 4A	"	"	"	"	Initial Release
		J3 Series	A-698	CAR 4A	"	"	"	"	Initial Release
		J3 Series	695	695	"	"	"	"	Initial Release
		J4 Series	A-703	CAR 4A	"	"	"	"	Initial Release
		J4 Series	708	708	"	"	"	"	Initial Release
		J4 Series	A-740, 721	CAR 4A	"	"	"	"	Initial Release
		J5 Series	A-725	CAR 4A	"	"	"	"	Initial Release
		PA-11, PA-11S	A-691	CAR 4A	"	"	"	"	7/8/2005
		PA12 Series	A-780	CAR 3	"	"	"	"	Initial Release
		PA14 Series	A-797	CAR 3	"	"	"	"	Initial Release
		PA15 Series	A-800	CAR 3	"	"	"	"	Initial Release
		PA16 Series	1A1	CAR 3	"	"	"	"	Initial Release
		PA17 Series	A-805	CAR 3	"	"	"	"	Initial Release
		PA18 Series	1A2	CAR 3	"	"	"	"	Initial Release
		PA18 Series	AR-7	CAR 8.10(b)	"	"	"	"	Initial Release
		PA-19, PA-19S	1A2	CAR 3	"	"	"	"	7/8/2005
		PA20 Series	1A4	CAR 3	"	"	"	"	Initial Release
		PA22 Series	1A61EU	CAR 3	"	"	"	"	Initial Release
		PA23 Series	1A10	CAR 3	"	"	"	"	Initial Release
		PA24 Series	1A15	CAR 3	"	"	"	"	Initial Release
		PA25 Series	2A8	CAR 3	"	"	"	"	Initial Release
		PA25 Series	2A10	CAR 8.10(b)	"	"	"	"	Initial Release
		PA28 Series	2A13	CAR 3	"	"	"	"	Initial Release
		PA30 Series, PA39 Series, PA40 Series	A1EA	CAR 3	"	"	"	"	Initial Release
		PA31 Series	A8EA	CAR 3 (FAR 23)	"	"	"	"	Initial Release
		PA32 Series	A3SO	CAR 3	"	"	"	"	Initial Release
		PA34 Series	A7SO	FAR 23	"	"	"	"	Initial Release
		PA36 Series	A9SO	FAR 23	"	"	"	"	Initial Release
		PA36 Series	A10SO	FAR 21	"	"	"	"	Initial Release
		PA38 Series	A18SO1	FAR 23	"	"	"	"	Initial Release
		PA44 Series	A19SO	FAR 23	"	"	"	"	Initial Release
PA46 Series	A25SO	FAR 23	"	"	"	"	Initial Release		
PA60-600, PA60-601, PA-60-601P, PA60-602P, PA60-700P	A17WE	FAR 23	"	"	"	"	Initial Release		

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**For  
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Item	Aircraft Make	Aircraft Model	Original Type Certificate Number	Certification Basis For Alteration	FAA Scaled Drawings		Installation Instructions		AML Amended Date
					Number	Revision	Number	Revision	
					MDL 1111982	11/11/98 IR or Later FAA Approved Revision	II 1111981	11/11/98 IR or Later FAA Approved Revision	
62	<b>Pitts</b>	See Aviat							Initial Release
63	<b>Prop Jets Inc. (Aero Comm.)</b>	200 Series	3A18	CAR 3	"	"	"	"	Initial Release
64	<b>Reims Aviation (Cessna)</b>	172 Series	A4EU	CAR 10	"	"	"	"	Initial Release
		172 Series	A18EU	FAR 21.29	"	"	"	"	Initial Release
		150 Series	A13EU	FAR 21.29	"	"	"	"	Initial Release
		182 Series	A42EU	CAR 3	"	"	"	"	Initial Release
		337 Series	A23EU	FAR 21.29	"	"	"	"	Initial Release
		177 Series	A26EU	FAR 23	"	"	"	"	Initial Release
65	<b>Revo</b>	See Lake							7/8/2005
66	<b>Robinson Helicopter</b>	R 22	H10WE	FAR 27	"	"	"	"	Initial Release
	<b>Rockwell International (Also see Ayres)</b>	111 Series	A12SO	FAR 23	"	"	"	"	Initial Release
		112 & 114 Series	A7SO	FAR 23	"	"	"	"	Initial Release
		500, 520, 560	6A1	CAR 3	"	"	"	"	Initial Release
		680, 720	2A4	CAR 3	"	"	"	"	Initial Release
67	<b>Rusr, Robert F. (Chipmunk)</b>	21 Series, 22 Series	A44EU	FAR 21.29	"	"	"	"	Initial Release
68	<b>Ryan Aeronautical Co.</b>	SCW-145	658	CAR 4A	"	"	"	"	Initial Release
		ST Series	ATC 571	CAR 4A	"	"	"	"	Initial Release
		ST Series	ATC 681	CAR 4A	"	"	"	"	Initial Release
		ST Series	A-749	CAR 4A	"	"	"	"	Initial Release
69	<b>Ryan Aircraft Corp.</b>	B Series	ATC 25	CAR 4A	"	"	"	"	Initial Release
70	<b>Sea Bee</b>	See Sky Enterprises							7/8/2005
71	<b>SIAI Marchetti</b>	S205-18/F, -18/R	A9EU	FAR 21	"	"	"	"	7/8/2005
		S205-20/F, -20/R	A9EU	FAR 21	"	"	"	"	7/8/2005
		S205-22/R	A9EU	FAR 21	"	"	"	"	7/8/2005
		S208, S208A	A9EU	FAR 21	"	"	"	"	7/8/2005
		F260, F260B-F	A10EU	CAR 3	"	"	"	"	7/8/2005
		S211A	A86EU	FAR 23	"	"	"	"	7/8/2005
72	<b>Sikorsky Aircraft</b>	H19 Series	HR1SO	FAR 21.25	"	"	"	"	Initial Release
		S-39 Series	2-391	FAR 21.25	"	"	"	"	Initial Release
		S-43 Series	A-593	Aero Bul-7A	"	"	"	"	Initial Release
		VS-44-A	752	CAR 4A	"	"	"	"	Initial Release
		S-51 Series	H-2	CAR 6	"	"	"	"	Initial Release
		S-52 Series	H-3	CAR 6	"	"	"	"	Initial Release
		S-55 Series	HINE	CAR 6	"	"	"	"	Initial Release
		S-58 Series	HINE	CAR 6	"	"	"	"	Initial Release
		S-61 Series	HINE	CAR 7	"	"	"	"	Initial Release
		S-62A Series	HINE	CAR 7	"	"	"	"	Initial Release
		S-64 Series	HINE	CAR 8	"	"	"	"	Initial Release
		S-76 Series	HINE	FAR 29	"	"	"	"	Initial Release



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					MDL 1111982	11/11/98 IR or Later FAA Approved Revision	II 1111981	11/11/98 IR or Later FAA Approved Revision	
73	Sky Enterprises ( <i>SeaBee</i> )	RC-3	A-769	CAR 3	"	"	"	"	7/8/2005
74	Sky International	See Aviat							7/8/2005
75	Socata Group Aerospatiale ( <i>Gulfstream American</i> )	TB9, TB10, TB20, TB21	A51EU	FAR 23	"	"	"	"	Initial Release
		TB200	A51EU	FAR 23	"	"	"	"	7/8/2005
76	Stearman Aircraft	C3 Series	ATC55	ATC55	"	"	"	"	Initial Release
		C3 Series	2-159	2-159	"	"	"	"	Initial Release
		C3 Series	2-445	2-445	"	"	"	"	Initial Release
		C3 Series	ATC-305	ATC-305	"	"	"	"	Initial Release
		4 Series	2-155	2-155	"	"	"	"	Initial Release
		4 Series	ATC-305	ATC-305	"	"	"	"	Initial Release
		4 Series	ATC-292	ATC-292	"	"	"	"	Initial Release
		6 Series	ATC459	ATC459	"	"	"	"	Initial Release
77	Stinson ( <i>Univair</i> )	SM Series	ATC16	ATC16	"	"	"	"	Initial Release
		SM Series	ATC136	ATC146	"	"	"	"	Initial Release
		SM Series	ATC48	ATC48	"	"	"	"	Initial Release
		SM Series	ATC45	ATC45	"	"	"	"	Initial Release
		SM Series	ATC61	ATC61	"	"	"	"	Initial Release
		SM Series	ATC94	ATC94	"	"	"	"	Initial Release
		SM Series	ATC98	ATC98	"	"	"	"	Initial Release
		SR Series	ATC519	ATC519	"	"	"	"	Initial Release
		SR Series	ATC530	ATC530	"	"	"	"	Initial Release
		SR Series	ATC580	ATC580	"	"	"	"	Initial Release
		SR Series	ATC594	ATC594	"	"	"	"	Initial Release
		SR Series	ATC608	ATC608	"	"	"	"	Initial Release
		SR Series	ATC609	ATC609	"	"	"	"	Initial Release
		SR Series	ATC621	ATC621	"	"	"	"	Initial Release
		SR Series	ATC625	ATC625	"	"	"	"	Initial Release
		SR Series	ATC640	ATC640	"	"	"	"	Initial Release
78	STOL Amphibian Corp.	UC-1 (Twin-Bee)	A6EA	CAR 3	"	"	"	"	Initial Release
		Republic RC-3	A-769	CAR 3	"	"	"	"	Initial Release
79	Swift Museum Foundation	GC Series	A-766	CAR 4A	"	"	"	"	Initial Release
80	Taylorcraft Aviation	BC & BCS Series	A-696	CAR Part 4	"	"	"	"	Initial Release
		19 & F21	1A9	CAR Part 3	"	"	"	"	Initial Release
		DC Series	A-746	CAR 4A	"	"	"	"	Initial Release
		DF-65, DL-65, DCO-65, L-2, L-2A, L-2B, L-2C, L-2E, L-2M	A-746	CAR 4A	"	"	"	"	7/8/2005
		BF Series	A-699	CAR 4A	"	"	"	"	Initial Release
		BL Series	A-700	CAR 4A	"	"	"	"	Initial Release
81	Thompson, Jimmie, Enterprise ( <i>Navion</i> )	A thru Z Series	A-782	CAR 3	"	"	"	"	Initial Release
		L-17A, L-17B, L-17C	A-782	CAR 3	"	"	"	"	7/8/2005

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82	<b>Tiger Aircraft</b>	<i>See Gulfstream American</i>							7/8/2005
83	<b>Trytek, E.J.</b> <i>(American Champion)</i>	Aeronca CF, KC	ATC 655	Aero Bul. 7a	"	"	"	"	Initial Release
		Aeronca K, KS	A-634	Aero Bul. 7a	"	"	"	"	Initial Release
84	<b>Univar Aircraft Corp.</b> <i>(Alon)</i> <i>(Forney)</i> <i>(Mooney)</i> <i>(ERCO)</i>	10A, 10B	A-738	CAR 4A	"	"	"	"	7/8/2005
		108 Series	A-767	CAR 3	"	"	"	"	Initial Release
		108 Series	A2EA	CAR 3	"	"	"	"	Initial Release
		F-1 & F-1A	A-787	CAR 3	"	"	"	"	Initial Release
		E & G	A-787	CAR 3	"	"	"	"	Initial Release
		415D	A787	CAR 3	"	"	"	"	Initial Release
		A-2 & A-2A	A787	CAR 3	"	"	"	"	Initial Release
		HW-75	A-709	CAR 4A	"	"	"	"	7/8/2005
		L-5, L-5B, L-5C, L5-D, L5-E, L5-E1, L5-G	A787	CAR 3	"	"	"	"	7/8/2005
		M10	A787	CAR 3	"	"	"	"	Initial Release
		415C & 415CD	A718	CAR 4A	"	"	"	"	Initial Release
		415-D, E, G	A787	CAR 3	"	"	"	"	7/8/2005
		V-77	A-774	CAR 4A	"	"	"	"	7/8/2005
85	<b>Varga Aircraft Corp.</b>	2150 Series	4A19	CAR 3	"	"	"	"	Initial Release
86	<b>Waco Aircraft</b>	A Series	ATC26	ATC26	"	"	"	"	Initial Release
		A Series	644	644	"	"	"	"	Initial Release
		A Series	677	677	"	"	"	"	Initial Release
		A Series	598	598	"	"	"	"	Initial Release
		A Series	714	CAR 4A	"	"	"	"	Initial Release
		A Series	ATC41	ATC41	"	"	"	"	Initial Release
		A Series	ATC123	ATC123	"	"	"	"	Initial Release
		B Series, C Series	ATC168	ATC168	"	"	"	"	Initial Release
		B Series, C Series	ATC538	ATC538	"	"	"	"	Initial Release
		D Series	ATC639	ATC639	"	"	"	"	Initial Release
		D Series	ATC597	ATC597	"	"	"	"	Initial Release
		D Series	ATC42	ATC42	"	"	"	"	Initial Release
		E Series	665	655	"	"	"	"	Initial Release
		E Series	2-430	2-430	"	"	"	"	Initial Release
		G Series	ATC 13	ATC 13	"	"	"	"	Initial Release
		G Series	2-363	2-363	"	"	"	"	Initial Release
		I Series, J Series, K Series	2-361	2-361	"	"	"	"	Initial Release
		I Series, J Series, K Series	ATC313	ATC 313	"	"	"	"	Initial Release
		O Series, P Series, Q Series	ATC468	ATC468	"	"	"	"	Initial Release
		O Series, P Series, Q Series	ATC491	ATC491	"	"	"	"	Initial Release
		O Series, P Series, Q Series	ATC453	ATC453	"	"	"	"	Initial Release
O Series, P Series, Q Series	ATC502	ATC502	"	"	"	"	Initial Release		

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		R Series, S Series	ATC466	AT466	"	"	"	"	Initial Release
		R Series, S Series	ATC311	ATC311	"	"	"	"	Initial Release
		R Series, S Series	ATC543	ATC543	"	"	"	"	Initial Release
		U Series, Y Series, Z Series	ATC542	ATC542	"	"	"	"	Initial Release
		U Series, Y Series, Z Series	ATC586	ATC586	"	"	"	"	Initial Release
		U Series, Y Series, Z Series	ATC627	ATC627	"	"	"	"	Initial Release
87	Weatherly Aviation	201 Series	A10WE	FAR 21.25	"	"	"	"	Initial Release
		620 Series	A26WE	FAR 21.25	"	"	"	"	Initial Release
	End of List				"	"	"	"	

Amended Date: 07/08/2005

FAA Approved: \_\_\_\_\_

*Ray Catella*

Acting Manager, Seattle Aircraft  
 Certification Office