

# Supplemental Type Certificate

Number SA2693NM

This certificate, issued to

Electronics International, Inc.  
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 Civil Air Regulations.

Original Product—Type Certificate Number: \* See attached Master Eligibility List (MEL)  
Make: \* No. SA2693NM for list of approved airplane  
Model: \* models and applicable regulations

Description of the Type Design Change: Installation of Electronics International Digital Volt/Amp Gauges and Accessories in accordance with Electronics International, Inc. Installation Instructions No. II 040934.

*Model	Type	Adaptability
VA-1	Volt/Amp Gauge	Internal Shunt
VA-1-50-500	Volt/Amp/Gauge	Connected to Aircraft External Shunt
RSVA-3	Switch (Remote)	For Twin Engine Only Adapted to Aircraft External Shunt
S-50-500	External Shunt 50-500 Amp	Used with Units Requiring External Shunts

\* NOTE: The above models are approved as replacements

Limitations and Conditions: Approval of this change in type design applies to the above referenced aircraft models only. This approval should not be extended to other aircraft of this model 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, MEL SA2693NM, and Electronics International, Inc. Instructions No. II 040934 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: July 8, 1983

Date reissued:

Date of issuance: February 16, 1985

Date amended: 1/26/1988; 2/21/2002



By direction of the Administrator  
*Adrian J. [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.

LIST of ACTIVE PAGES  
for  
Approved Model List (AML) SA2693NM

DATE  
June 6, 1990

<u>PAGE</u>	<u>AMENDMENT DATE</u>
This Page -----	June 6, 1990
1 -----	August 26, 1986
2 -----	August 26, 1986
3 -----	None
4 -----	June 6, 1990
5 -----	None
6 -----	None
7 -----	December 20, 1988
8 -----	December 20, 1988
9 -----	August 26, 1986
10 -----	None
11 -----	November 13, 1986
12 -----	June 6, 1990

FAA Approved Stewart K. Phillips

Amended \_\_\_\_\_

FAA APPROVED  
ELECTRONICS INTERNATIONAL, INC.  
FAA APPROVED MODEL LIST (AML) SA2693NM  
FOR

INSTALLATION OF ELECTRONICS INTERNATIONAL DIGITAL VOLT/AMP GAUGES AND ACCESSORIES

Issue Date: February 15, 1985

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	FAA SEALED INSTALLATION INSTRUCTIONS		AFM SUPPLEMENT NUMBER/DATE	AML AMENDMENT DATE
					NUMBER	REVISION NO. AND DATE		
1	Artic Aircraft Co.	S-1A Series S-1B Series	A737 A754	CAR 4a CAR 4a	II 040934 4/10/83			
2	Ayres Corp	S2R Series	A3SW, A4SW	CAR 3 CAR 8				
3	Air Tractor Inc.	AT-300, -300,-302, -400	A9SW	FAR 21.25(a)(1)				
4	Aero- spatiale	SE 3160 Alovette- III SA 315 Ser. SA 316 Ser. SA 319 Ser. 262A Series SN-601 SA-350 & 360 Series SA-365 Ser.	H1 IN H1 IN H1 IN H1 IN H1 IN A6 EU A37 EU 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			8/26/86 8/26/86 8/26/86 8/26/86 8/26/86 8/26/86 8/25/86 8/26/86	
5	Ballauer	Funk Series	2-564	CAR 04.031				
6	Beech Air- craft Corp	18 Series	A-757, -765	CAR 4a CAR 03				

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6	Beech Aircraft Corp (Cont.)	19, 23, 24 Series	A1CE	CAR Part 3	II 040934 4/10/83			
		33, 35, 36 Series	3A15	CAR Part 3				
		45 Series	5A3	CAR Part 3				
		50 Series	5A4	CAR Part 3				
		60 Series	A12CE	FAR Part 23				
		65, & 90 Series	3A20	CAR Part 3				
		76 Series	A29CE	Part 23				
		77 Series	A30CE	Part 23				
		190 Series	A31CE	Part 23				
		95, 55, 56 Series	3A16	CAR Part 3				
		58 Series	A23CE	FAR Part 23				
		99, 100 Series	A14CE	FAR Part 23				
		200 Series	A24CE	FAR Part 23				
		300, 1900 & 1900C Ser.	A24CE	FAR Part 23				
7	Bell Helicopter Textron	47 Series	H-1, 2H3, 2H1	CAR 6				8/26/86
		204 & 205 Series	H1 SW	CAR 7				
		212 Series	H4 SW	FAR Part 29				
		214 Series	H5 SW	FAR Part 29				
		222 Series	H9 SW	FAR Part 29				
		206 Series	H2 SW	CAR 6				

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8	Bellanca Aircraft Corp.	7 Series	A-759	CAR Part 4a	II 040934 4/10/83			
		11 Series	A-761, & 796	CAR 4a CAR 3				
		14, 17 Ser.	A-18CE	FAR Part 23				
		8 Series	A21CE	FAR Part 23				
		300 Series	ATC328	ATC328				
		400 Series	ATC319	ATC319				
9	British Aerospace	Twin Pioneer	7A7	CAR 10				
		Series 2&3						
		Beagle B206						
		Series 1&2	A11EU	FAR 21. 29 (CAR 3)				
		Beagle B121	A22EU	FAR 21. 29 (FAR 23)				
		Ser. 1,2&3						
10	Cessna Aircraft	120, 140 Series	A768 5A2	CAR 4a CAR 3 (CAR 4a)				
		150, 152 Series	3A19	CAR Part 3				
		170 Series	A799	CAR Part 3				
		172, 175 Series	3A12 3A17	CAR Part 3				
		177 Series	A13CE, A20CE	FAR Part 23				
		180 Series	5A6	CAR Part 3				

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10	Cessna Aircraft (Cont.)	182, 185 Series	3A13, 3A24	CAR Part 3	II 040934 4/10/83			6/06/90
		188 Series	A9CE	FAR Part 21				
		190 Series	A-790	CAR 3				
		206 Series	A4CE	CAR Part 3				
		207 Series	A16CE	FAR Part 23				
		210 Series	3A21	CAR Part 3				
		303, 305 Series	5A5, 3A14	CAR Part 3				
		310 Series	3A10	CAR 3				
		320, 335, 340 Series	3A25	CAR Part 3				
		336, 337 Series	A2CE, A6CE	CAR 3, CAR Part 3				
		401, 402 Series	A7CE	CAR Part 3				
		411, 414, 421 Series						
425 Series								
404 Series	A25CE	FAR Part 23						
11	Christen Industries	S-1, S-2, Series (Pitts)	A8S0	FAR 21 (FAR 23)				
12	Consolidated Aero-nautics	Colonial C. Series, Lake LA Series	1A13	CAR 3				

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13	Enstrom Helicopter	F Series 280 Series	H1CE	CAR Part 6	II 040934 4/10/83			
14	Gulfstream American	Grumman: G-164 Ser. G Series  AA Series  GA Series	1A16  1A17, A12EA A11EA, A16EA A17S0	CAR 8.10(a)(1)  CAR 4b  FAR 23  FAR 23				
15	Hiller Aviation	UH-12Series	6H1, 5H2 4H10, 4H11, H1WE	CAR 6				
16	Hughes Helicopter	300 Series 269 Series	4H12	CAR Part 6				
17	Hynes	H-2, H-4 Series	2H2	CAR Part 6				
18	Maule Aircraft Corp.	M Series	3A23	CAR Part 3				
19	Mooney Aircraft	M20 Series	2A3	CAR 3				

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20	North American Aviation	AT-6 Series	A-2-575	CAR 4a	II 040934 4/10/83			
21	Partenavia Cost- ruzioni Aero- nautiche	P68 Series	A31EU	FAR 21.29 (FAR 23)				
22	Pilatus Britten- Norman	BN Series	A17EU	FAR 21.29 (FAR 23)				
23	Piper Air- craft Corp	PA12 Series PA14 Series PA15 Series PA16 Series PA17 Series PA18 Series PA20 Series PA22 Series PA23 Series PA24 Series PA25 Series PA 30,39,40 Series	A-780 A-797 A-800 1A1 A-805 1A2, AR-7 1A4 1A6 1A10 1A15 2A8, 2A10 A1EA	CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 3, CAR 8.10(b) CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 8.10(b) CAR 3				



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23	Piper Aircraft Corp. (Cont.)          (Aerostar)	PA31 Series	A8EA	CAR 3 (FAR 23)	II 040934 4/10/83			
		PA36 Series	A9SO, A10SO	FAR 23, FAR 21				
		PA38 Series	A18SO	FAR 23				
		PA28 Series	2A13	CAR 3				
		PA32 Series	A3SO, A7SO	CAR 3, FAR 23				
		PA34 Series	A7SO	FAR 23				
		PA44 Series	A19SO	FAR 23				
		PA-60-600	A17WE	FAR 23				
		PA-60-601	A17WE	FAR 23				
		PA-60-601P	A17WE	FAR 23				
	PA-60-602P	A17WE	FAR 23					
	PA-60-700P	A17WE	FAR 23					
24	Prop-Jet Inc. (Aero Commander)	200 Series	3A18	CAR 3				
25	Reims Aviation (Cessna)	172 Series	A4EU, A18EU	CAR 10, FAR 21.29 (CAR 3)				
		150 Series	A13EU	FAR 21.29				
		182 Series	A42EU	CAR Part 3				
		337 Series	A23EU	FAR 21.29 (FAR 23)				
		177 Series	A26EU	FAR Part 23				
26	Robinson Helicopter	R22	H10WE	FAR 27				

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27	Gulfstream Aerospace	111 Series 112 Series 114 Series	A11S0 A12S0 A12S0	FAR 23 (FAR 36)				12/20/88
28	Stinson Division	SM Series       SR Series	ATC16 ATC136 ATC48 ATC145 ATC161 ATC194 ATC298 ATC519 ATC530 ATC580 ATC594 ATC608 ATC609	ATC16 ATC136 ATC48 ATC145 ATC161 ATC194 ATC298 ATC519 ATC530 ATC580 ATC594 ATC608 ATC609	II 040934 4/10/83			
29	Sikorsky Aircraft	H19 Series S-39 Series S-41-B	HR1S0 ATC-375 2-286	FAR 21.25 FAR 21.25 FAR 21.25				8/26/86 8/26/86 8/26/86

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29	Sikorsky Aircraft (Cont.)	S-43 Series	A-593	Aero Bul-7A	II 040934 4/10/83			8/26/86
		VS-44-A	752	CAR 4A				8/26/86
		S-51 Series	H-2	CAR 6				8/26/86
		S-52 Series	H-3	CAR 6				8/26/86
		S-55 Series	1H4	CAR 6				8/26/86
		S-58 Series	1 H11	CAR 6				8/26/86
		S-61 Series	1 H15	CAR 7				8/26/86
		S-62A Ser.	1 H13	CAR 7				8/26/86
		S-64 Series	H1EA	CAR 8				8/26/86
S-76 Series	H1NE	FAR 29	8/26/86					
30	Thompson, Jimmie, Enterprise (Navion)	A through H Series	A-782	CAR 3				
31	Varga Aircraft Corp	2150 Series	4A19	CAR 3				
32	Waco Aircraft	A Series	ATC 26,	ATC 26				
			664,677,598,	664, 677, 598,				
			714, ATC 41	CAR 4a, ATC 41				
			ATC 123	ATC 123				
			ATC 168	ATC 168				
		B & C Ser.	ATC 538	ATC 538				
			ATC 362	ATC 362				
			ATC 240	ATC 240				
			ATC 352	ATC 352				
			ATC 575	ATC 575				

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32	Waco Aircraft (Cont.)	D Series	ATC639	ATC639				
			ATC597	ATC597				
			ATC42	ATC42				
		E Series	665	665				
			2-430	2-430				
		G Series	ATC 13	ATC 13				
			2-363	2-363				
		I, J, K, Series	ATC345	ATC345				
			2-361	2-361				
		O, P, Q, Series	ATC 313	ATC 313				
			ATC468	ATC468				
			ATC464	ATC464				
			ATC491	ATC491				
			ATC453	ATC453				
			ATC502	ATC502				
			ATC466	ATC466				
		R & S Ser.	ATC311	ATC311				
			ATC543	ATC543				
		U, Y, Z, Series	ATC479	ATC479				
			ATC473	ATC473				
ATC467	ATC467							
ATC499	ATC499							
ATC511	ATC511							
ATC546	ATC546							
ATC568	ATC568							
ATC626	Aero Bul. 7a							
ATC542	ATC542							
ATC586	ATC586							
ATC627	ATC627							

II 040934  
4/10/83

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33	Weatherly Aviation	201 Series	A10WE	FAR 21.25(a) (CAM 8)				
		602 Series	A26WE	FAR 21.25(a)				
34	Helio Aircraft Limited	H-250	1A8	CAR 3	II 040934 4/10/83			11/13/86
		H-295	1A8	CAR 3	II 040934 4/10/83			11/13/86
		HT-295	1A8	CAR 3	II 040934 4/10/83			11/13/86
		H-391	1A8	CAR 3	II 040934 4/10/83			11/13/86
		H-391B	1A8	CAR 3	II 040934 4/10/83			11/13/86
		H-395	1A8	CAR 3	II 040934 4/10/83			11/13/86

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34	Helio Air- craft Limited (Cont.)	H-395A  500	1A8	CAR 3  CAR 3	II 040934 4/10/83			11/13/86
	35	Univair Aircraft Corp. (Erco) (Forney)  (Erco)  (Alon)  (Mooney) (Erco)  (Stinson)	Series  (Mooney) G F-1 F-1A E 415-D A-2 A2-A M10 415-C 415-CD 108, 108-1, -2, -3, -5	A767  A-787 A-787 A-787 A-787 A-787 A-787 A-787 A-787 A-718 A-718 A-767		CAR 3  CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 3 CAR 4a CAR 4a CAR 3		
36	Stol Amphibian Corp.	UC-1 (Twin-Bee) Republic RC-3	A6EA  A-769	CAR 3  CAR 03				6/06/90 6/06/90