

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

Number SA3862NM

This certificate, issued to Electronics International, Inc.

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 Approved Model List (AML) No. SA3862NM, for list of approved airplane models and applicable airworthiness regulations.
Make: * * * * *
Model: * * * * *

Description of Type Design Change:

Installation of Electronics International, Inc. Primary TIT/EGT/CHT instruments, remote switches and associated accessories in accordance with Electronics International, Inc. Installation Instructions No. II 110361 (Rev. A) and II 111361 respectively, or later FAA Approved Revisions. These instruments are applicable to reciprocating engines only.

NOTE: These will replace the existing TIT/EGT/CHT analog gauges.
(continued on Page 3)

Limitations and Conditions: Approval of this change in type design applies to the aircraft models listed in the AML only. This approval should not be extended to aircraft of this 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, AML SA3862NM, and Electronics International Inc. Instructions No. II 121161 shall be maintained as part of the permanent records for the modified aircraft.

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: February 25., 1988

Date received:

Date of issuance: April 6, 1988

Date amended: April 25, 1988



By direction of the Administrator:

D. L. Ryznar
(Signature)

Assistant 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.

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Supplemental Type Certificate
(Continuation Sheet)

Number SA3862NM

DESCRIPTION OF TYPE DESIGN CHANGE: (Continued)

A.	<u>INSTRUMENTS</u>	<u>TECHNICAL DATA REPORT</u>
(1)	C-1P (), CHT W/Light	TD 111063
(2)	T-1P (), TIT W/Light	TD 111063
(3)	E-1P (), EGT W/Light	TD 111063
(4)	CC-1P (), Dual CHT W/Light	TD 111062
(5)	TT-1P (), Dual TIT W/Light	TD 111062
(6)	EE-1P (), Dual EGT W/Light	TD 111062
(7)	EC-1P (), Dual EGT W/Light	TD 111062
(8)	TC-1P (), Dual TIT/CHT W/Light	TD 111062

B.	<u>REMOTE SWITCH</u>	<u>TECHNICAL DATA REPORT</u>
(1)	RS-1P, 5 Channel 1 Deck	TD 121061
(2)	RS-2P, 5 Channel 2 Decks	TD 121061
(3)	RS-1P, 7 Channel 1 Deck	TD 121061
(4)	RS-2P, 7 Channel 2 Decks	TD 121061
(5)	RS-2-2, 2 Channel 2 Decks	TD 121061

- 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 APPROVED

ELECTRONICS INTERNATIONAL, INC.

APPROVED MODEL LIST (AML) SA3862NM

FOR

INSTALLATION OF ELECTRONICS INTERNATIONAL DIGITAL TIT/EGT/CHT INSTRUMENTS AND ACCESSORIES

Issue Date: July 24, 1987

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	FAA SEALED DRAWING/DRAWING LIST		AFM SUPPLEMENT NUMBER/DATE	AML AMENDMENT DATE
					NUMBER	REVISION NO. AND DATE		
1.	Aerocar	I	4A16	CAR 3	TD121161	12/11/86		
2.	Aeronca Inc.	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	" " " " "	" " " " "		
3.	Aircraft Associates Inc.	J-2	ATC 620	ATC 620	"	"		
4.	Arctic Aircraft Company	S-1A Series S-1B Series	A737 A754	CAR 4a CAR 4a	" " "	" " "		
5.	Ayres Corp.	S2R Series	A3SW, A4SW	CAR 3 CAR 8	" "	" "		

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6.	Air Tractor Inc.	AT-300, -300, -302, -400	A9SW	FAR 21.25(a)(1)	TD121161	12/11/86		4/25/88
7.	Ballauer	Funk Series Series	2-564	CAR 04.031	"	"		
8.	Beech Aircraft Corp.	18 Series	A-757, -765	CAR 4a CAR 03	"	"		
		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 Series			"	"		
		76 Series	A29CE	Part 23	"	"		
		77 Series	A30CE	Part 23	"	"		
		95, 55, 56 Series	3A16	CAR Part 3	"	"		

NOTE: AMENDED ITEM #8 TO REMOVE BEECH 90, F90, 99, 100, & 200 SERIES AIRCRAFT ON APRIL 25, 1988.

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9.	Bell Heli- copter Textron	47 Series	H-1, 2H3, 2H1	CAR 6	TD121161	12/11/86		
10.	Bellanca Aircraft Corp.	7 Series	A-759	CAR Part 4a	"	"		
		11 Series	A-761,	CAR 4a	"	"		
		14, 17 Series	A-18CE	FAR Part 23	"	"		
		8 Series	A-21CE	FAR Part 23	"	"		
		300 Series	ATC328	ATC328	"	"		
		400 Series	ATC319	ATC319	"	"		
	British Aerospace	Twin Pioneer Series 2 & 3	7A7	CAR 10	"	"		
		Beagle B206 Series 1 & 2	A11EU	FAR 21.29 (CAR 3)	"	"		
	Beagle B121 Series 1, 2 & 3	A22EU	FAR 21.29 (FAR 23)	"	"			
12.	Cessna Aircraft	120, 140 Series	A768, 5A2	CAR 4a CAR 3 (CAR 4a)	" "	" "		

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12.	Cessna Aircraft (Cont.)	150, 152 Series	3A19	CAR Part 3	TD121161	12/11/86		
		170 Series	A799	CAR Part 03	"	"		
		172, 175 Series	3A12, 3A17	CAR Part 3	"	"		
		177 Series	A13CE, A20CE	FAR Part 23	"	"		
		180 Series	5A6	CAR Part 3	"	"		
		182, 185 Series	3A13, 3A24	CAR Part 3	"	"		
		188 Series	A9CE	FAR Part 21	"	"		
		190 Series	A-790	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	"	"		

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12.	Cessna Aircraft (Cont.)	336	A2CE	CAR 3	TD121161	12/11/86		
		337	A6CE	CAR Part 3	"	"		
		401, 402, 411, 414, 421	A7CE	CAR Part 3	"	"		
		425 Series						
		404	A25CE	FAR Part 23	"	"		
		206 Series	A4CE	CAR Part 3	"	"		
13.	Child Doyle F.	S-1, S-2 Series (Pitts)	A8S0	FAR 21 (FAR 23)	"	"		
14.	Consolidated Aeronautics	Colonial C. Series, Lake LA Series	1A13	CAR 03	"	"		
15.	Enstrom Helicopter	F Series, 280 Series	HICE	CAR Part 6	"	"		
16.	Great Lakes	2T Series	ATC-167	ATC-167	"	"		
			2-3339	2-3339	"	"		
			ATC228	ATC228	"	"		

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20.	Hynes	H-2, H-4 Series	2H2	CAR Part 6	TD121161	12/11/86		
21.	Maule Air- craft Corp.	M Series	2A23	CAR Part 3	"	"		
22.	Mooney	M20 Series	2A3	CAR 3	"	"		
23.	North American Aviation	AT-6 Series	A-2-575	CAR 4a	"	"		
24.	Partenavia Costruzioni Aeronautiche	P6B Series	A31EU	FAR 21.29 (FAR 23)	"	"		
25.	Pilatus Britten- Norman	BN Series	A17EU	FAR 21.29, FAR 23	"	"		
26.	Piper Air- craft Corp.	J2 Series J3 Series	ATC595 ATC660,	ATC595 ATC660	" "	" "		

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26.	Piper Aircraft Corp. (Cont.)	J3 Series	A-691,	CAR 4a	TD121161	12/11/86		
			A-692,	CAR 4a	"	"		
			A698, 695	CAR 4a 695	"	"		
		J4 Series	A-703, 708,	CAR 4a 708	"	"		
			A-740, 721	CAR 4a	"	"		
		J5 Series	A-703,	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	1A6	CAR 3	"	"		
		PA23 Series	1A10	CAR 3	"	"		
		PA24 Series	1A15	CAR 3	"	"		
PA25 Series	2A8,	CAR 3	"	"				
	2A10	CAR 8.10(b)	"	"				

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26.	Piper Aircraft Corp. (Cont.)	PA30, 39, 40 Series	A1EA	CAR 3 (FAR 23)	TD121161	12/11/86		4/25/88
		PA31 Series (Except Turboprop)	A20SO	CAR 3 (FAR 23)	"	"		
		PA36 Series	A9SO	FAR 23	"	"		
			A10SO	FAR 21	"	"		
		PA38 Series	A18SO	FAR 23	"	"		
		PA28 Series	2A13	CAR 3	"	"		
		PA32 Series	A3SO	CAR 3	"	"		
		PA34 Series	A7SO	FAR 23	"	"		
		PA44 Series	A19SO	FAR 23	"	"		
		PA46 Series	A25SO	FAR 23	"	"		
	Piper Aircraft Corp. (Aerostar)	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	"	"			
27.	Prop-Jets Inc. (Aero Commander)	200 Series	3A18	CAR 3	"	"		
				CAR 3	"	"		
				CAR 3	"	"		

NOTE: UNDER ITEM 26, PIPER MODEL PA-31 TYPE CERTIFICATE NUMBER WAS CHANGED FROM A8EA TO A20SO.

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28.	Reims Aviation (Cessna)	172 Series	A4EU,	CAR 10	TD121161	12/11/86		
			A18EU	FAR 21.29(CAR 3)	"	"		
		150 Series	A13EU	FAR 21.29R 23)	"	"		
		182 Series	A42EU	CAR Part 3	"	"		
		337 Series	A23EU	FAR 21.29(FAR 23)	"	"		
		177 Series	A26EU	FAR Part 23	"	"		
29.	Robinson Helicopter	R 22	H10WE	FAR 27	"	"		
30.	Rockwell International	111 Series, 112 Series 114 Series	A12SO	FAR 23(FAR 36)	"	"		
31.	Rust, Robert E. (Chipmunk)	21, 22 Series	A44EU	FAR 21.29	"	"		
32.	Stearman Aircraft	C3 Series	ATC55,	ATC55	"	"		
			2-159	2-159	"	"		
			2-445	2-445	"	"		
			ATC251	ATC251	"	"		

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32.	Stearman Aircraft (Cont.)	4 Series	2-155	2-155	TD121161	12/11/86		
			ATC-305	ATC-305	"	"		
		ATC292	ATC292	"	"			
		6 Series	ATC459	ATC459	"	"		
33.	Stinson	SM Series	ATC16	ATC16	"	"		
			ATC136	ATC136	"	"		
			ATC48	ATC48	"	"		
			ATC145	ATC145	"	"		
			ATC161	ATC161	"	"		
			ATC194	ATC194	"	"		
			ATC298	ATC298	"	"		
		SR Series	ATC519	ATC519	"	"		
			ATC530	ATC530	"	"		
			ATC580	ATC580	"	"		
			ATC594	ATC594	"	"		
			ATC608	ATC608	"	"		
			ATC609	ATC609	"	"		
			ATC621	ATC621	"	"		
			ATC625	ATC625	"	"		
		ATC640	ATC640	"	"			

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34.	Taylor- craft Aviation	BC & BCS Series	A-696	CAR Part 04	TD121161	12/11/86		
		19 & F21 Series	1A9	CAR Part 3	"	"		
		DC Series	A746	CAR 4a	"	"		
		BF Series	A-699	A-699	"	"		
		BL Series	A-700	A-700	"	"		
35.	Thompson, Jimmie, Enterprise (Navion)	A through H Series	A-7825	CAR 3	"	"		
36.	Varga Air- craft Corp.	2150 Series	4A19	CAR 3	"	"		
37.	Waco Aircraft	A Series	ATC26,	ATC26,	"	"		
			644,	644,	"	"		
			677,	677,21	"	"		
			598,	598,	"	"		
			714, ATC41	714, ATC41	"	"		

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37.	Waco Aircraft (Cont.)	A Series	ATC123	ATC123	TD121161	12/11/86		
		B & C (Cont.)	ATC168,	ATC168	"	"		
		Series	ATC538	ATC538	"	"		
		U, Y, Z	ATC542	ATC542	"	"		
		Series	ATC627	ATC627	"	"		
38.	Weatherly Aviation	201 Series	A10WE	FAR 21.25(a) (CAM8)	"	"		
		620 Series	A26WE	FAR 21.25(a)	"	"		
39.	Helio Air- craft Ltd.	H-250	1A8	CAR 3	"	"		
		H-295		CAR 3	"	"		
		HT-295	HT-295	CAR 3	"	"		
		H-391	H-391	CAR 3	"	"		
		H-391B		CAR 3	"	"		
		H-395		CAR 3	"	"		
		H-395A		CAR 3	"	"		
500	A2EA	CAR 3	"	"				
40.	Univair Aircraft Corp.	108	A-767	CAR 3	"	"		

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40.	Univair Aircraft Corp. (Cont.) (Stinson)	108 Series(Cont.)	A-767	CAR 3	TD121161	12/11/86		
	(Erco)	G	A-767	CAR 3	"	"		
	(Forney)	F-1	A-767	CAR 3	"	"		
	(Forney)	F-1A	A-767	CAR 3	"	"		
	(Erco)	E	A-767	CAR 3	"	"		
	(Erco)	415-D	A-767	CAR 3	"	"		
	(Alon)	A-2	A-767	CAR 3	"	"		
	(Alon)	A2-A	A-767	CAR 3	"	"		
	(Mooney)	M10	A-767	CAR 3	"	"		

FAA Approved:

D. P. Rizzo
 Assistant Manager, Seattle
 Aircraft Certification Office

Date: April 25, 1988