

Department of Transportation—Federal Aviation Administration

# Supplemental Type Certificate

Number SA00678SE

*This certificate, issued to:* J. P. Instruments  
9621 Bay Meadows Drive  
Huntington Beach, CA 92646

*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. SA00678SE for a list of the approved airplane  
*Model:* models and applicable airworthiness regulations.

*Description of the Type Design Change:* Installation of J. P. Instruments Slimline EGT-100 series primary instruments in accordance with J. P. Instruments Installation Instructions 102S, Revision A, dated February 19, 1999, or later FAA approved revision. The instrument may be installed to monitor one of the following: cylinder head temperature, turbine inlet temperature, or oil temperature.

*Limitations and Conditions:* Approval of this change in type design extends to the airplane 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 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:* May 26, 1998

*Date reissued:*

*Date of issuance:* March 5, 1999

*Date amended:*



*By direction of the Administrator*

*Adrian J. Ho...*  
\_\_\_\_\_  
(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.*

**J.P. INSTRUMENTS**  
**FAA APPROVED MODEL LIST (AML) NUMBER SA00678SE**  
**FOR**  
**INSTALLATION OF THE SLIM LINE® EGT 100 SERIES**  
**PRIMARY INSTRUMENTS (CHT, TIT, OIL as applicable)**

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	AML REVISION DATE
1.	American General Aircraft Holdings, Grumman	AA-5, AA-5A, AA-5B	A16EA	FAR 23	
2.	Beech	C35	A-777	CAR 3	
3.	Beech	35-A33, A36TC, B36TC	3A15	CAR 3	
4.	Beech Twin	58P,58PA,58TC,58TCA	A23CE	FAR 23	
5.	Bellanca Inc.	17-31ATC	1A3	CAR 3	
6.	Cessna	170, 170A, B	A-799	CAR 3	
7.	Cessna	172, 172A, B, C, D, E, F, G, H, 172 I, K, L, M, N, P, Q	3A12	CAR 3	
8.	Cessna	172RG	3A17	CAR 3	
9.	Cessna	177,177A, 177B	A13CE	FAR 23	
10.	Cessna	177RG	A20CE	FAR 23	
11.	Cessna	180, 180A, B, C, D, E, F, G, H, J, K	5A6	CAR 3	
12.	Cessna	182,182A,B,C,D,E,F,G,H,J,K, L, M, N, P, Q, R	3A13	CAR 3	
13.	Cessna	R182, T182, TR182	3A13	CAR 3	
14.	Cessna	185,185A,B,C,D,E,A185E,A185F	3A24	CAR 3	
15.	Cessna	206, P206, P206A, B, C, D, E, TP206A, B, C, D, E, U206, U206A, B, C, D, E, F, G, TU206A, B, C, D, E, F, G	A4CE	CAR 3	
16.	Cessna	207, 207A, T207, T207A	A16CE	FAR 23	

**J.P. INSTRUMENTS**  
**FAA APPROVED MODEL LIST (AML) NUMBER SA00678SE**  
**FOR**  
**INSTALLATION OF THE SLIM LINE® EGT 100 SERIES**  
**PRIMARY INSTRUMENTS (CHT, TIT, OIL as applicable)**

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	AML REVISION DATE
17.	Cessna	210, 210A, B, C, D, E, F 210-5, 210-5A, T210F, 210G, T210G, 210H, T210H, 210J, T210J, T210K, 210K, 210L, T210L, 210M, T210M, 210N, P210N, T210N, 210R, P210R, T210R	3A21	FAR 23	
18.	Cessna twin	310, C, D, E, F, G, H, E310H, 310I, J, K, L, N, P, Q, R 310J-1, E310J, T310P, Q, R, T310Q, 310R, T310R	3A10	CAR 3	
19.	Cessna twin	336	A2CE	CAR 3	
20.	Cessna twin	337, 337A, B, C, D, E, F, G, H, T337B, C, D, E, F, G, H, M337B, P337H, T337H-SP	A6CE	CAR 3	
21.	Cessna twin	401, 401A, B, 402, 402A, B, C, 414, 414A,	A7CE	CAR 3	
22.	EXTRA	EA-300,S, L, EA-300/200	A67EU	FAR 21.29 FAR 23	
23.	GENERAL AVIA	F22B, F22C, F22R	A75EU	FAR 23	
24.	Jobmaster Company	DGA-15P (Army UC-70; Navy GH-1, GH-2,GH-3, NH-1	A-717	CAR 4a	
25.	Maule	M-5-180C M-5-200 MX-7-180, A, B MXT-7-180, A, B, MXT-7-160 MX-7-160	3A23	CAR 3	
26.	Maule	M-5-235C	3A23	CAR 3	

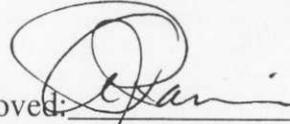
**J.P. INSTRUMENTS**  
**FAA APPROVED MODEL LIST (AML) NUMBER SA00678SE**  
**FOR**  
**INSTALLATION OF THE SLIM LINE® EGT 100 SERIES**  
**PRIMARY INSTRUMENTS (CHT, TIT, OIL as applicable)**

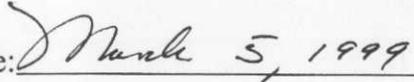
ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	AML REVISION DATE
27.	Mooney	M20E, F, J, K	2A3	CAR 3	
28.	Mooney	M20K (with Rocket Conversion TSIO520NB)	2A3	CAR 3	
29.	North American	AT-6 (SNJ-2), -6A, B, C, D, E, F, ( SNJ-3, 4, 5, 6, 7) NOMAD NA-260 (USAF-28A)	A-2-575  1A18	CAR 3	
30.	Piper	PA-18S "105" PA-18 "125" (Army L-21A) PA-18S "125", PA-18AS "125", PA-18 "135" (Army L-21B), PA-18A "135", PA-18S "135", PA-18AS "135", PA-18 "150", PA-18A "150", PA-18S "150", PA-18AS "150",	1A2	CAR 3	
31.	Piper	PA-20, -20S, 20-"115", 20S-"115", PA-20-"135", -20S-"135"	1A4	CAR 3	
32.	Piper	PA-22, -22-108, -22-135, -22S-135, PA-22S-150, -22-160, -22S-160	1A6	CAR 3	
33.	Piper	PA 23, 23-160, PA-E23-250, PA-23-250	1A10	CAR 3	
34.	Piper	PA24, 250, 260,	1A15	CAR 3	
35.	Piper	PA-28-140,-150,-151,-160,-161, PA-28-180,-28S-160, PA-28R-180	2A13	CAR 3	
36.	Piper	PA-28-181, PA-28R-200,	2A13	CAR 3	
37.	Piper	PA-28-235; -28-236	2A13	CAR 3	
38.	Piper	PA-30, 39, 40	A1EA	CAR 3	
39.	Piper	PA -31-350, 325	A20SO	CAR 3 FAR23	

**J.P. INSTRUMENTS**  
**FAA APPROVED MODEL LIST (AML) NUMBER SA00678SE**  
**FOR**  
**INSTALLATION OF THE SLIM LINE® EGT 100 SERIES**  
**PRIMARY INSTRUMENTS (CHT, TIT, OIL as applicable)**

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	AML REVISION DATE
40.	Piper	PA-32RT-300	A3SO	CAR3	
41.	Piper	PA-60-600, -60-601, 60-601P PA-60-602P, 60-700P	A17WE	FAR 23	
42.	Robinson Helicopter Co.	R22, R22 ALPHA, R22 BETA R22 MARINER	H10WE	FAR27	
43.	Robinson Helicopter Co.	R44	H11NM	FAR27	
44.	PITTS (AVIAT) White Inter.Ltd.	S-2S, S-2B	A8SO	FAR 23	
45.	Thompson	Navion, A,B,C,D,E,F,G with IO-520 Series eng.	A-782	CAR 3	
46.	Thompson	Navion, B, F, G, H	A-782	CAR 3	
47.	Siai-Marchetti	F.260, B,C,D,F	A10EU	FAR 23 CAR 10	
48.	S.O.C.A.T.A Aerospatiale	TB10,TB20, TB21,200	A51EU	FAR 21.29	

February 19, 1999 Rev NC

Approved:   
A. J. Pasion  
Manager, Special Certification Branch  
Seattle Aircraft Certification Office

Date:   
Mark S, 1999