

Department of Transportation — Federal Aviation Administration

Supplemental Type Certificate

Number

SA00061LA

This certificate issued to

J.P. INSTRUMENTS
9621 Bay Meadow Drive
Huntington Beach, California 92646

certifies that the change in the type design for the following product with the limitations and conditions

therefor as specified herein meets the airworthiness requirements of Part * of the Federal Aviation Regulations.
* See Applicable Type Certificate Data Sheet (T.C.D.S.) for certification basis

Regulations.

Original Product — Type Certificate Number:

Make:

Model:

- * See Attached FAA Approved J.P. Instruments Master Eligibility List No. 410
- * for list of approved aircraft models and applicable T.C.D.S.

Description of Type Design Change:

Installation of JPI digital tachometer in accordance with
FAA Approved J.P. Instruments Drawing List Report No. 400, Revision NC, dated March 20, 1995 or later FAA approved revision.

Limitations and Conditions:

This approval should not be extended to other specific airplanes of these models on which other previously approved modifications are incorporated, unless it is determined that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effects upon the airworthiness of that airplane

The tachometer installed by the original aircraft manufacturer must remain installed and operable

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 Administration of the Federal Aviation Administration.

Date of application: May 10, 1993

Date received:

Date of issuance: March 29, 1995

Date amended: January 12, 1996



By direction of the Administrator

[Signature]
(Signature)

Manager, Propulsion Branch
Los Angeles 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.

MAKE _____ AIRCRAFT MODE _____ T.C.D.S P/N 400000 - XX - [() - ()] *

Model designation system:

400000 - XX - [() - ()]

A combination of letters and numbers defining the green, yellow and red rpm arcs.

The number of cylinders the instrument was calibrated to .

Indicates type of sensor :	-1	PN420807	Bendix ring
	-2	PN 420808	Bendix 20
	-3	PN 420815	Bendix Plug
	-4	PN 420100	Slick ring
	-6	PN 420809	Slick Plug

Indicates the base model number of the instruments

Example: 400000-3-6-G800Y2100G2350R2700 , indicates a Bendix sensor on a 6 cylinder with the following ranges, green arc from 800 to 2090 rpm, yellow arc from 2100 to 2340 rpm, green arc from 2350 to 2690, red line 2700 rpm. All part numbers begin with 400000-(1-5). Basic Tachometer PN is 400000 and Sensor type of 1 through 5.

MAKE	AIRCRAFT MODEL	T.C.D.S	P/N 400000 - XX - [() - ()] *
Sial-Marchetti (Agusta)	S.205-18/F, .205-18/R S.205-20/F, S.205-20/R S.205-22/R S.208, S208A	A9EU	4-G300R2000G2250R2700 4-G300R2100G2350R2700 6-G300R2800 6-G300R2100G2350R2700
	F.260, F.260B, F.260C	A10EU	6-G300R2700
S.O.C.A.T.A Aerospatiale	TB9	A51EU	4-G300R2700
S.O.C.A.T.A Aerospatiale	TB10	A51EU	4-G300R2700
S.O.C.A.T.A Aerospatiale	TB20 TB21	A51EU	6-G300R2570
S.O.C.A.T.A Aerospatiale	TB-200	A51EU	6-G300R2700
Swift	GC-1A	A-766	4-G300R2570
Swift	GC-1B	A-766	4-G300R2550
Thompson	Navion A, "(L-17A, L-17B, L-17C)" (E-185-3, 2300RL) Optional engines: (IO-470H, 2625RL) (O-470P, 2600RL) (IO-520, 2700RL)	A-782	6-G300R2300 6-G300R2620 6-G300R2600 6-G300R2700
Thompson	Navion B Optional engines: (IO-470-H, 2625RL) (IO-520, 2700RL)	A-782	6-G300Y3000R3400 6-G300R2620 6-G300R2700
Thompson	Navion D,E Optional engine (IO-520B, 2700RL)	A-782	6-G300R2600 6-G300R2700
Thompson	Navion F,G Optional engine (IO-520B, 2700RL)	A-782	6-G300R2620 6-G300R2700
Thompson	Navion H	A-782	6-G300R2700

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J.P.INSTRUMENTS

MASTER ELIGIBILITY LIST

NO. 410

INSTALLATION OF THE 400000 SERIES DIGITAL TACHOMETER
With Range Lights

STC NUMBER: SA00061LA

DATE: March 20, 1995

* See Part Number Designation on Sheet 13

REVISION LOG TO FAA APPROVED MASTER ELIGIBILITY LIST REPORT 410		SHEET NO. 2
REVISION NO.	DATE APPROVED	REVISION DESCRIPTION
N/C A	3-20-95	INITIAL RELEASE; SHEETS 1 THRU 8 ADD RANGE LIGHTS SHEETS 3 THRU 13, Revised part number Identification (see sheet 13)

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MASTER ELIGIBILITY LIST J.P.INSTRUMENTS

REPORT 410
SHEET NO. 11

MAKE

AIRCRAFT MODE

T.C.D.S P/N 400000 - XX - () - () *

Piper	PA-32RT-300	A3SO 6-G320Y2570R2700
Piper	PA-32R-301, PA-32-301 PA-32R-301T, -32-301T	A3SO 6-G320Y2600R2700 6-G320Y2570R2700
Piper Twin	PA-34-200, (LIO-360-C1E6, 2200-2400YEL-2700RL) Aircraft equipped with Hartzell propellers damper.	A7SO 4-G300R2200G2400R2700 4-G300R2200G2400R2700
Piper Twin	PA-34-200T	A7SO 6-G900R2000G2200R2570
Piper	PA-34-220T	A7SO 6-G350R2000G2200R2570
Piper	PA-36-285,(Cont 6-285-B, 4000RL, 2000 PROP) PA-36-300	A9SO 6-G300R4000 A10SO 6-G300R2700
Piper	PA-36-376	A9SO 8-G300R2500 A10SO
Piper	PA-38-112	A18SO 4-G300R2600
Piper Twin	PA-44-180, PA-44-180T	A19SO 4-G300R2700
Piper	PA-46-310P	A25SO 6-G300R2600
Piper	PA-46-350P	A25SO 6-G300R2500
Piper (Aerostar) Twin	PA-60-600 -60-601, -60-601P	A17WE 6-G300Y2520R2570 6-G300Y2470R2570
Pipe (Aerostar) Twin	PA-60-602P	A17WE 6-G300R2420
Piper Twin	PA-60-700P	A17WE 6-G300R2500
Republic	RC-3	A-769 6-G300R2500
Robinson Helicopter	R22, R22 ALPHA, R22 BETA, R22 MARINER	H10WE 4-G300R2650

FAA APPROVED		MASTER ELIGIBILITY LIST J.P.INSTRUMENTS		REPORT 410 SHEET NO. 10	
MAKE	AIRCRAFT MODE	T.C.D.S	P/N 400000 - XX - [() - ()] *		
Piper	PA-24	1A15	4-G300R2700		
Piper	PA -24-250, Lycoming O-540-A1A, 2225-2275, 2575) PA-24-260 (Lycoming O-540-E4A5, 2700RL)	1A15	6-G300R2220G2280R2570 6-G300R2700		
Piper	PA-24-400	1A15	8-G300R2650		
Piper	PA-25	2A8 2A10	4-G300R2700		
Piper	PA-25-235	2A8 2A10	6-G300R2570		
Piper	PA-25-260	2A8 2A10	6-G300R2700		
Piper	PA-28-140,-150,-151,-160,-161 PA-28-180, takeoff (A/C S/N 28-671 to 28-1760A), 2475-2700RL) PA-28S-180, PA-28S-160 PA-28R-180 PA-28-181	2A13	4-G300R2700 4-G300Y2470R2700 4-G300R2700 4-G300R2000G2200R2700 4-G300R2700		
Piper	PA-28R-200, PA-28R-201, (IO-360-C1C, Hartzell Constant Speed Model HC-C2YK-I 2100-2350, / With McCauley Constant Speed Model B2D34C213, 1500-1950YEL-2700RL)	2A13	6-G300Y2100G2350R2700 6-G300Y1500G1950R2700		
Piper	PA-28R-201T, -28-201T, (Continental TSIO-360-F, 2000-2200YEL- 2575RL) PA-28RT-201T PA-28RT-201	2A13	6-G900R2000G220R2570 6-G900R2570 6-G900Y2650R2700		
Piper	PA-28-235 PA-28-236	2A13	6-G300R2570 6-G900R2400		
Piper Twin	PA-30 PA-39, PA-40	A1EA	4-G300R2700 4-G300R2700		
Piper Twin	PA-31 PA-31-300, -31-325, 31-350	A20SO	6-G300R2570 6-G300R2570		
Piper Twin	PA-31P 31P-350	A8EA	6-G300R3200 6-G300R2600		
Piper	PA-32-260, PA-32-300, PA-32S-300, -32R-300	A3SO	6-G300R2700		

* See Part Number Designation on Sheet 13

FAA APPROVED		MASTER ELIGIBILITY LIST J.P.INSTRUMENTS		REPORT 410 SHEET NO. 3	
MAKE	AIRCRAFT MODE	T.C.D.S	P/N 400000 - XX - [() - ()] *		
Air Tractor,	AT-300 AT-301	A9SW	9-G300R2300 9-G300R2250		
Avions Pierre Robin	R2160	A48EU	4-G300Y2600R2700		
Ayres Corp.	600 S-2D, S-2R, S2R-R1340 S2R-R3S	A3SW A4SW	9-G300Y2200R2250 9-G300Y2050R2200		
Beech	23, A23-19, 19A), A23, A23A, B19, M19A A23-24, B23,C23 A23-24, A24, A24R C23 B24R,C24R	A1CE	4-G300R2700 4-G300R2700 4-G300R2000G2150R2700 4-G300R2150G2350R2700 4-G300R2100G2250R2700		
Beech	35, A35 B35, 35R, C35, E35, F35, D35 G35	A-777	6-G300R2050R2300 6-G300R2050R2450 6-G300R2300R2600 6-G300R2300R2650		
Beech	H35,J35,K35, M35, 35-A33 G33, N35, P35 35-33, 35-B33, 35-C33, E33, F33 S35, V35,V35A,V35B, 35-C33A, E33A, E33C, A36TC,B36TC F33A, F33C, 36, A36	3A15	6-G300R2600 6-G300R2620 6-G300R2800 6-G300R2700 6-G300Y2550R2700		
Beech Twin	50 B50, C50 E50, F50, G50, H50, J50 D50, D50A,B, D50C,E, E-5990	5A4	6-G300Y3000R3400 6-G300Y3100R3400 6-G300Y3200R3400 6-G300Y3100R3400		
Beech Twin	95, B95 B95A, D95A, E95 95-55, 95-A55, 95-B55, 95B55A 95-B55B 95-C55, 95-C55A, 95-D55, 95-D55A,E55,E55A (IO-520C, Below TE1171-2700RL, After sn: TE1171 2550-2700) 95-58, 58A (IO-520C, sn: TH1095, 2700RL, sn: 1096 to TH1394, 2550-2700)	3A16	4-G300R2700 4-G300R2700 6-G300Y2550R2620 6-G300R2620 6-G300R2700 6-G300Y2550R2700 6-G300R2700 6-G300Y2550R2700		

* See Part Number Designation on Sheet 13

FAA APPROVED		MASTER ELIGIBILITY LIST J.P.INSTRUMENTS		REPORT 410 SHEET NO. 4	
MAKE	AIRCRAFT MODEL	T.C.D.S.	P/N 400000 - XX - [() - ()] *		
Beech Twin	58TC,A58TC	3A16	6-G300R2900		
Beech Twin	58P,58PA,58TC,58TCA	A23CE	6-G300R2700		
Beech Twin	60,A60,B60	A12CE	6-G300Y2750R2900		
Beech Twin	65-80, 65-A80,65-A80-8800, 65-88,65-B80 65, A65,A65-8200,70	3A20	6-G30Y3200R3400 6-G30Y3200R3400		
Beech Twin	76	A29CE	4-G300R2700		
Beech	77	A30CE	4-G300R2700		
Bellanca	14-13, 14-13-2,-3,-3W	A773	6-G300R2600		
Bellanca	14-19 14-19-2 14-19-3	1A3	6-G300R2550 6-G300R2600 6-G300R2620		
Bellanca	17-30	1A3	6-G300Y2700R2850		
Bellanca	17-31	1A3	6-G300R2570		
Bellanca	17-31TC	1A3	6-G300Y2400R2570		
Bellanca	17-30A,17-31A (IO-540G1B5,-G1E5,-G1F5 2575RL) (IO-540K1B5,-K1E5,-K1A5 2700RL)	A18CE	6-G300R2570 6-G300R2700		
Bellanca	17-31ATC, (IO-540G1B5,-G1E5,-G1F5 2575RL) (IO-540K1B5,-K1E5,-K1A5 2700RL)	A18CE	6-G300R2575 6-G300R2700		
Boeing	(STEARMAN) A75L3,75,A75, B75, E75 A75L3000 IB75A, E75N1	A-743	9-G300R2100 9-G300Y2200R2300 9-G300Y1950R2300		
Boeing	A75J1 A75N1, B75N1, D75N1	A-743	7-G300R2000 7-G300R2070		
Cessna	120,140	A-768	4-G300R2570		

* See Part Number Designation on Sheet 13

FAA APPROVED		MASTER ELIGIBILITY LIST J.P.INSTRUMENTS		REPORT 410 SHEET NO. 9	
MAKE	AIRCRAFT MODEL	T.C.D.S.	P/N 400000 - XX - [() - ()] *		
Maule	M-5-210C, M-5-220C	3A23	6-G300R2800		
	M-5-210TC, (TO-360F1A8, 2575RL)		4-G300R2570		
Maule	M-5-235C, (O-540JI, IO-540W, 2400RL) M-5-236C with (O-540B, 2575RL)	3A23	6-G300R2400 6-G300R2570		
Maule	M-6-180 M-6-235	3A23	4-G300R2000G2250R2700 6-G300R2400		
Maule	M-7-235,A, B, MX-7-235, M-8235, (O-540JI,W, 2500RL) M-7-235,A, B, MX-7-235, M-8235, with (O-540B, 2575RL) MXT-7-235, (IO-540W1A5, 2400RL)	3A23	6-G300R2500 6-G300R2570 6-G300R2400		
Mooney	M20 M20A,B,C,D,G (O-360 A1A, 2000-2250 , 2700RL)	2A3	4-G300R2000G2250R2700 4-G300R2000G2250R2700		
Mooney	M20E,F (IO-360 A1A, 2000-2350 RED, 2700RL)	2A3	4-G300R2000G2350R2700		
Mooney	M20J	2A3	4-G300Y1600G1950R2700		
Mooney	M20K	2A3	6-G300R2700		
Mooney	M20L, (Porsche PFM3200N03, 2343RL) M20M, (TSIO-540 AF1A, 2575RL)	2A3	6-G300R2340 6-G300R2570		
Mooney	M20R	2A3	6-G300R2570		
North American	AT-6 (SNJ-2),-6A,B,C,D,E,F, (SNJ-3,4,5,6,7) (P&W R-1340-47, 2200-2250RL) NOMAD NA-260 (USAF-28A) (Wright R1820-56S,2500-2600)	A-2-575 1A18	9-G300Y2200R2250 9-G300Y2500R2600		
Partenavia Costruzioni Aeronautiche Twin	P68, P68B ,P68C P68C-TC, P68TC,(TIO 360-C I A6D, 2575RL)	A31EU	4-G300R2700 4-G300R2570		
Piper	PA-20,-20S PA-20S "115" PA-20 "135", PA-20S "135" PA- 20-"115", (Ly O-235C1,2600-2800RL)	1A4	4-G300R2600 4-G300Y2600Y2800		
Piper	PA-22,-22-108, PA-22-135, -22S,-135 PA-22S-150, -22-160, -22S-160 (O-320-B2AB, 2700RL)	1A6	4-G30R260 4-G300R2700		
Piper Twin	PA-23,-23-160	1A10	4-G300R2700		
Piper Twin	PA-23-235 PA-E23-250, PA-23-250	1A10	6-G300R2570 6-G300R2570		

* See Part Number Designation on Sheet 13