

United States of America
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 21 of the Federal Aviation Regulations.

* See Applicable Type Certificate Data Sheet (T.C.D.S.) for certification basis

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 Administrator 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

Robert E. Hartman
(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.

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)

FAA APPROVED

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

MAKE	AIRCRAFT MODEL	T.C.D.S	P/N 400000 - XX - () - () *
Air Tractor,	AT-300	A9SW	9-G300R2300
	AT-301		9-G300R2250
Avions Pierre Robin	R2160	A48EU	4-G300Y2600R2700
Ayres Corp.	600 S-2D, S-2R, S2R-R1340	A3SW	9-G300Y2200R2250
	S2R-R3S	A4SW	9-G300Y2050R2200
Beech	23, A23-19, 19A), A23, A23A, B19, M19A	A1CE	4-G300R2700
	A23-24, B23,C23		4-G300R2700
	A23-24, A24, A24R	A1CE	4-G300R2000G2150R2700
	C23		4-G300R2150G2350R2700
	B24R,C24R		4-G300R2100G2250R2700
Beech	35, A35	A-777	6-G300R2050R2300
	B35, 35R,		6-G300R2050R2450
	C35, E35, F35, D35		6-G300R2300R2600
	G35		6-G300R2300R2650
Beech	H35,J35,K35, M35, 35-A33	3A15	6-G300R2600
	G33, N35, P35		6-G300R2620
	35-33, 35-B33, 35-C33, E33, F33		6-G300R2600
	S35, V35,V35A,V35B, 35-C33A, E33A, E33C, A36TC,B36TC		6-G300R2700
	F33A, F33C, 36, A36		6-G300Y2550R2700
Beech Twin	50	5A4	6-G300Y3000R3400
	B50, C50		6-G300Y3100R3400
	E50, F50, G50, H50, J50		6-G300Y3200R3400
	D50, D50A,B, D50C,E, E-5990		6-G300Y3100R3400
Beech Twin	95, B95	3A16	4-G300R2700
	B95A, D95A, E95		4-G300R2700
	95-55, 95-A55, 95-B55, 95B55A		6-G300Y2550R2620
	95-B55B		6-G300R2620
	95-C55, 95-C55A, 95-D55, 95-D55A,E55,E55A (IO-520C,		
	Below TE1171-2700RL,		6-G300R2700
	After sn: TE1171 2550-2700)		6-G300Y2550R2700
	95-58, 58A (IO-520C, sn: TH1095, 2700RL,		6-G300R2700
	sn: 1096 to TH1394, 2550-2700)		6-G300Y2550R2700

* See Part Number Designation on Sheet 13

MAKE	AIRCRAFT MODEL	T.C.D.S	P/N 400000 - XX - [() - ()] *
Beech Twin	56TC,A56TC	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

MAKE	AIRCRAFT MODEL	T.C.D.S	P/N 400000-XX-[()-()]*
Cessna	140A	5A2	4-G300R2470
Cessna	150,A,B,C,D,E,F,G,H,J,K A150K, 150L, A150L, 150M A150M	3A19	4-G300R2750
Cessna	152, A152	3A19	4-G300R2550
Cessna	170,170A,170B	A-799	6-G300R2700
Cessna	172 172A,B,C,D,E,F,G,H	3A12	6-G300R2700
Cessna	172, I, K, L, M,N,P, Q	3A12	4-G300R2700
Cessna	172RG	3A17	4-G300R2700
Cessna	R172E, F, G, H, J, (IO-360-D,-H, 2800RL) K, (IO-360K, 2600RL)	3A17	6-G300R2800 6-G300R2600
Cessna	P172D,175,175A,B,C	3A17	6-G300R3200
Cessna	177, 177A, 177B	A13CE	4-G300R2700
Cessna	177RG	A20CE	4-G300R2700
Cessna	180, (O-470-A,-J,-K, A&K 2600RL, 180 (O-470-J 2550RL) 180A,B,C,D,E,F,G,H,J 180K	5A6	6-G300R2600 6-G300R2550 6-G300R2600 6-G300R2400
Cessna	182,182A,B,C,D,E,F,G,H,J,K,L,M,N,P 182,Q,R, R182, T182, TR182	3A13	6-G300R2600 6-G300R2400
Cessna	185,185A,B,C,D,E	3A24	6-G300R2620
Cessna	A185E,A185F	3A24	6-G30Y2700R2850
Cessna	188,188A,188B A188,A188A, A188B T188C	A9CE	6-G300R2600 6-G300Y2700R2850 6-G300R2700
Cessna	190, 195,195B 195A	A-790	7-G300R2200 7-G300Y2000R2200

* See Part Number Designation on Sheet 13

MAKE	AIRCRAFT MODEL	T.C.D.S	P/N 400000 - XX - [() - ()] *
Cessna	206,P206,P206A,B, C,D,E TP206A,B,C,D,E	A4CE	6-G300R2700 6-G300R2700
Cessna	U206,U206A U206B,C,D,E,F,G TU206A,B,C,D,E,F,G	A4CE	6-G300R2700 6-G300Y2700R2850 6-G300R2700
Cessna	207,207A	A16CE	6-G300R2700
Cessna	T207,T207A	A16CE	6-G300Y2600R2700
Cessna	210,210A	3A21	6-G300YR2620
Cessna	210B,C	3A21	6-G300R2620
Cessna	210D,E,F	3A21	6-G300R2700
Cessna	210-5,210-5A T210F,T210G,T210H 210G,,210H, 210J	3A21	6-G300R2620 6-G30R2700 6-G30R2700
Cessna	T210J, T210K,T210L 210K, 210L, 210M,210N,210R T210M,T210N, P210N P210R, T210R	3A21	6-G300R2700 6-G300Y2700R2850 6-G300Y2600R2700 6-G30R2700
Cessna	305A,C,D,F	5A5	6-G300Y2300R2600
Cessna Twin	310,310A,B	3A10	6-G300R2600
Cessna Twin	310C,D,E,F,G,H,J, 310J-1, E310H, 310I, E310J 310K,L,N,P,Q	3A10	6-G300R2620
Cessna Twin	310R, T310Q,T310P,T310R	3A10	6-G300R2700
Cessna Twin	320,A,B,C, 320-1 320D,E,F,335, 340,340A	3A25	6-G300R2600 6-G300R2700
Cessna Twin	321	3A11	6-G300R2600
Cessna Twin	336	A2CE	6-G300R2800

* See Part Number Designation on Sheet 13

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

MAKE		AIRCRAFT MODE	T.C.D.S P/N 400000 - XX - [() - ()] *	
Grumman	AA-1, -1A, -1B		A11EA	4-G300R2600
Grumman	AA-1C		A11EA	4-G300R2700
Gulfstream	AA-5, AA-5A, AA-5B		A16EA	4-G300R2700
Commander Aircraft	112,112B		A12SO	4-G300R2700
Commander Aircraft	112TC, 112TCA		A12SO	4-G300R2570
Commander Aircraft	114,114A, B		A12SO	6-G300R2700
Gulfstream (Twin Commander Aircraft)	500		6A1	6-G300R2575
	500-A			6-G300R2620
	500-B, U, S			6-G300R2620
	520, 560,560A, -E			6-G300Y3000R3400
Gulfstream (Twin Commander Aircraft)	560F		2A4	6-G300Y3000R3400
	680,E, 720			6-G300Y3200R3400
	680-F , 680FL, 680-FL(P)			6-G300Y3200R3400
	685			6-G300R3400
Hughes Helicopter (Schweizer)	269A, (HO-360-B1A, 2900RL)		4H12	4-G300R2900
	269A (O-360-C2D, 2700-2900)			4-G300Y2700R2900
	269A-1,(H1O-360-B1A ,2900RL)			4-G300R2900
	269B, 269C,(H1O-360-D1A,3200RL)			4-G300R3200
Maule	Bee Dee M-4, M-4,-4C,-4S,-4T		3A23	4-G300R2700
Maule	M-4-210,C,S,T, M-4-220C,S,T, M-4-180C,S,T		3A23	6-G300R2800
Maule	M-5-180C, (Lyc 0-360-C1F,2000-2250, 2700RL)		3A23	4-G300R2000G2250R2700
	M-5-200,)			4-G300R2700
	MX-7-180, A, B, MXT-7-180, A, B, MXT-7-160, MX-7-160			4-G300R2700

* See Part Number Designation on Sheet 13

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-360F1A6, 2575RL)		4-G300R2570
Maule	M-5-235C, (O-540JL, IO-540W, 2400RL) M-5-235C with (O-540B, 2575RL)	3A23	6-G300R2400 6-G300R2570
Maule	M-6-180	3A23	4-G300R2000G2250R2700
	M-6-235		6-G300R2400
Maule	M-7-235, A, B, MX-7-235, M-8235, (O-540JL, W, 2500RL)	3A23	6-G300R2500
	M-7-235, A, B, MX-7-235, M-8235, with (O-540B, 2575RL)		6-G300R2570
	MXT-7-235, (IO-540W1A5, 2400RL)		6-G300R2400
Mooney	M20	2A3	4-G300R2000G2250R2700
	M20A, B, C, D, G (O-360 A1A, 2000-2250, 2700RL)		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

MAKE	AIRCRAFT MODEL	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	2A13	4-G300R2700 4-G300Y2470R2700 4-G300R2700
	PA-28R-180 PA-28-181		4-G300R2000G2200R2700 4-G300R2700
Piper	PA-28R-200, PA-28R-201, (IO-360-C1C, Hartzell Constant Speed Model HC-C2YK-1 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

MAKE	AIRCRAFT MODEL	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 A10SO	6-G300R4000 6-G300R2700
Piper	PA-36-375	A9SO A10SO	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

* See Part Number Designation on Sheet 13

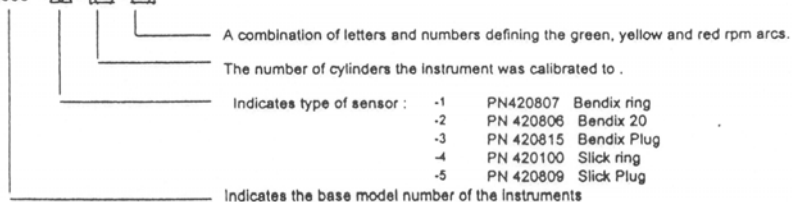
MAKE	AIRCRAFT MODE	T.C.D.S	P/N 400000 - XX - [() - ()] *
Sial-Marchetti (Agusta)	S.205-18/F, S.205-18/R S.205-20/F, S.205-20/R S.205-22/R S.208, S208A F.260, F.260B, F.260C	A9EU A10EU	4-G300R2000G2250R2700 4-G300R2100G2350R2700 6-G300R2800 6-G300R2100G2350R2700 6-G300R2700
S.O.C.A.T.A Aerospatiale	TB9	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

* See Part Number Designation on Sheet 13

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

Model designation system:

400000 - XX - [() - ()]



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.

* See Part Number Designation on Sheet 13