US Department										OM	m Approved B No. 2120 3/2011	-0020	Electronic Tracking Number	
of Transportatio Federal Aviatio Administration	m	(Airfrar	ne, P	owerplant, P	roț	beller, or Appliance)								
	and dispos	ition of this	form.										sequent revision thereof) for ult in a civil penalty for each	
1	Nationalit	y and Regi	stration	n Mark				Serial	No.					
1. Aircraft	N908EN	1		·····		20608105								
I. AIRCIAN	Make							Mode				s	Series	
	CESSN							206ł				_	00	
	Name (As	shown on	registi	ation certificate)				1	ss (As s § <u>4843 f</u>		-		certificate)	
2. Owner								City	DULU		ANE RU		State MN	
	NORTH	ILAND A	VIAT	ION OF DUL	JTH	I LI	LC	Zip	55803	-1229_		Countr	VUNITED STATES	
						3. F	or FAA Use	Only						
4. Ty	 ж			· · · · · ·		5. 1	Unit Identific:	ation					·····	
Repair	Alteration	Uni	+		Ма					Model		_	Serial No.	
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		AIRFRAN	IE			(As a			As described in Item 1 above)			9	· · · · · · · · · · · · · · · · · · ·	
		POWERF	PLANT								<u>`</u>			
		PROPEL	LER											
		APPLIAN	CE	Type Manufacturer										
		1			6	. Co	onformity Sta	tement						
A. Agency's N	lame and A	ddress				₿.	Kind of Agend	х у						
	Holmgren					<	U. S. Certific						ufacturer	
Address <u>3870</u>		•		State MN			Foreign Certificated Mechanic C. Certifica Certificated Repair Station					cate No.		
Zip <u>55811</u>	antown Ca	untry United	d State				Certificated I			zation	A&F	4 7	76119246	
have be	en made in	accordance	e with	on made to the u the requirements o the best of my	s of	Part	t 43 of the U.S	n 5 above 5. Federa	e and de I Aviatio	scribed on Regula	on the re itions an	verse d tha	e or attachments hereto t the information	
Extended ran	ae fuel	·	Signa	ture/Date of Aut	horiz	zed	Individual			11	/			
per 14 CFR F App. B			Aa	ron Holn					A				05/05/2014	
							val for Return							
Pursuant to Administrate	o the author of the Feo	ority given deral Aviati	perso on Adr	ns specified be ninistration and i	low. s	, th		ied in it Appro			ected in ected	h the	manner prescribed by the	
	A Fit. Stand spector	lards	Man	ufacturer		м	aintenance O	ganizatio	on	De	Persons Approved by Canadian Department of Transport			
	A Designee		Repa	air Station	✓	In	spection Auth	ction Authorization Other (Specify)						
Certificate or							Individual			11				
Designation N A&P 47611				ron Holn					1		_		- 05/05/2014	
FAA Form			•				·····	1	Ť	/				

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft natio	nelity and registration mark and dat	a work completed 1
	N908EN	05/05/2014
	Nationality and Registration Mark	Date
Registration: N908EN Make: Cessna Model: 206H S/N: Date: 5/05/2014 Hobbs: 983.8 Tach: 928.3	20608105	
Installed J.P. Instruments EDM 830 engine monitoring system v IAW the following STCs and Installation Instructions:	vith fuel flow transducer asse	mbly (model FXT-231)
JPI STC SA2586NM for EDM Installation JPI STC SA00432SE for Fuel Flow Transducer Installation JPI EDM Installation Manual Report #103, Dated 1/20/09 JPI Fuel Flow Transducer Installation Manual Report #503 Date Garmin 400W Series Installation Manual 190-00356-02 Rev. G AC 43.13-2B		
Summary of installation is as follows:		
 Installed panel mounted EDM-830 display unit and associate Power supplied from main buss through a new 5amp CB loc. Installed 6 JPI cylinder head temperature probes and 6 JPI e Installed JPI fuel flow transducer assembly with fire sleeve a AE1014035E0120 AE1014035G0084 Installed JPI outside air temperature probe in R/H wing lowe Installed JPI outside air temperature probe in R/H wing lowe Installed JPI oil pressure sending unit and relocated the factor AN-T style fitting and a new Aeroquip oil line, p/n AE101403 Installed RPM sensor in R/H magneto. Wired RS232 IN and OUT from EDM-830 to Garmin GPS 43 Updated the aircraft's Pilot's Operating Handbook and the V 	ated on the pilots side lower exhaust gas temperature pro- ind two new Aeroquip fuel ho r access panel approximatel style fitting on the back of th ory oil pressure switch to the 7G0214.	instrument panel. bes, one for each cylinder. se assemblies: y 36'' from wing root. he existing MAP gauge. engine firewall using an
Instructions for Continued Airworthiness (ICA)		
There are no field adjustments and or calibration requirements in instrument after initial installation. ICA is not required. Maintena malfunctioning components is limited to removal and replaceme repaired components as described in the troubleshooting section.	nce of nonfunctioning or ent of JPI factory supplied ne	
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✓ Additional Sheet	ts Are Attached	
FAA Form 337 (10-06)	· · · · · · · · · · · · · · · · · · ·	

N90BEN 5/5/14

United States Of America Bepartment of Transportation - Federal Abiation Administration

Supplemental Type Certificate

Number SA2586NM

J. P. INSTRUMENTS This Certificate issued to

PO Box 7033 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 -3 of the ${\it Civil}$ Aviation Regulations, including respective Amendments as specified in the attached Approved Model List.

Original Product Type Certificate Number :

* *See attached FAA Approved J.P. Instruments

Make :

* Master Eligibility List No. SA2586NM for list Abodel : * of approved aircraft models and applicable TCDS

Description of Type Design Change:

Installation of J. P. Instruments temperature monitoring systems in accordance with FAA Approved J. P. Instruments Drawing List Report No. 100, Revision D, dated December 19, 1996, or later FAA approved revisions. FAA Approved Airplane/Rotorcraft Flight Manual Supplement No. 1 for EGT-701 temperature indicator, Revision A, dated December 13, 1996, or later FAA approved revisions.

Similations and Conditions. The approval of the change in type design applies to the basic airplane of the specific models that are otherwise unmodified. 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 installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of that airplane. 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. (See continuation sheet) 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.

August 14, 1985

Date of application ... December 31, 1984

2_{MINIST}

Date of issuance :

Date reissued :

Date amended: July 13, 1987, November 13, 1992, December 19, 1996, May 15, 1998, June 17, 1999

By direction of the Administrator

(Title)

(Signature) Manager, Propulsion Branch Los Angeles Aircraft Certification Office

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. Page 1 of 3 FAA Form 8110-2(10-68)

N908EN 5/5/14

Hnited States Of America Department of Transportation - Federal Abiation Administration Supplemental Type Certificate

(Continuation Sheet)

Number SA2586NM

Limitations and Conditions - continued

Cylinder head, oil, turbine inlet and/or exhaust gas temperature, fuel flow equipment, tachometer instruments, and manifold pressure instruments required by the original type design, or if required by other FAA approval, must remain installed and operable.

Aircraft listed on the FAA approved Master Eligibility List SA2586NM and that have been previously modified with a fuel flow indication system that utilizes the Flowscan fuel flow transducer (P/N: 201-A, 201-B, 201-C, or 231 or equivalent as listed on page 4 of the FAA Approved Installation Instructions, Drawing 103) are eligible for installation of the EGT-701 fuel flow option.

This certificate does not constitute installation approval of the fuel flow transducer.

EGT-701 temperature indicator with tachometer (rpm) and manifold pressure options are eligible for the 4 cylinder and 6 cylinder engines listed on the Master Eligibility List (MEL) SA2586NM only.

FAA Approved Airplane/Rotorcraft Flight Manual Supplement No. 1, Revision A, dated December 13, 1996 or later FAA approved revision, is required with the installation of the EGT-70 system.

Eligible dash numbers for the EGT-701 are listed on MEL SA2586NM.

A copy of this certificate must be maintained as part of the permanent records of the modified aircraft.

-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 Form 8110-2(10-58) Poge 3 of 3 This certificate may be transferred in accordance with FAR 21.47.

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United States of America Department of Transportation - Federal Aviation Administration

N908EN 5/5/14

Supplemental Type Certificate

Number SA00432SE

This certificate, issued to

J. P. Instruments P. O. Box 7033 Huntington Beach, CA 92646

certifies that the change in the type design for the foll	lowing product with the limitations and conditions
therefore as specified hereon meets the airworthiness m	equirements of <i>Part</i> * of the * Regulations.
Original Product—Type Certificate Number:	* See Attached Approved Model List (AML)
Make:	*No. SA00432SE for list of approved Aircraft
Model:	*Models and applicable Airworthiness regulations

Description of the Type Design Change: Fuel flow transducer installed in accordance with J. P. Instruments (JPI) Fuel Flow Installation Manual, Report #503, Revision B, dated March 14, 1997, and manufactured in accordance with JPI Drawing List, Report No. 500, Revision B, dated March 14, 1997.

Note: This STC requires the installation of JPI fuel flow instrument via STC SA2586NM.

Limitations and Conditions: Approval of this change in type design applies to the above model aircraft 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 other of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft.

The STC holder will provide a written permission statement to each person it authorizes to use this certificate to alter the product.

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 otherwisc established by the Administrator of the Federal Aviation Administration.

Date of application: January 3, 1997

Date reissued:

Date of issuance: Ma

May 2, 1997

Date amended:



By direction of the Administrator

(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.

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N908EN 5/5/14

Aircraft Weight and Balance Revision Form

Date:	05/05/2014							
n an	Aircr	aft		the second second	Re	gistered Owner	n an	•
Tail No:	N908EN			Name: N	Northland Av	iation of Duluth	LLC	
Make:	Cessna			Address: 4	843 Rice Lal	ke rd.		
Model:	206H			ſ	Duluth, MN 5	5803-1229		
Serial:	20608105							
Time:	H: 983.8, T:	928.3						
TCD No:	A4CE					·		
r	Weig	ht			····	CG Range		
Maximun	-	3,792.00			FWD: 39.9	_	Г: 47.4	
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Weight:	2,809.15	Load:	982.85	Weight CG:	39.42	Moment	110,743.95	
[iten	n		We	ight	Arm	Moment	
JPI EDI	M-830		······		1.9	19.00	36.10	
JPI CH	I and EGT Prob	bes			1.3	-12.50	-16.25	
JPI Wir	e Harness	· · · · · ·			1.0	-1.00	-1.00	
RPM, N	AP and Oil Pr	essure Sensor	S		0.3	0.00	0.00	
OAT Se	ensor				0.1	42.00	4.20	• • • •
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As Weigl				, iopaiou bj	3870 Get			
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				Signatur	re:	H		
				-	P			
				Printed Name	e: Aaron H	oungren		
			Repair A	gency License N	o: 4761192	46 IA		

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US Department of Transportation Federal Avlation Administration	on on			owerplant, P		-		-				For FAA Use Only
instructions	IONS: Prints and disposion. (49 U.S.	ition of this	s form.	es. See Title 14 This report is re	CFF	२ हु4 ed b	13.9, Part 43 y law (49 U.S	Appendix B, a S.C. §44701). F	nd AC ailure 1	43.9- to repo	1 (or sub ort can re	sequent revision thereof) for sult in a civil penalty for each
		y and Regi		n Mark	_			Serial No.				
	N908E							20608105				
1. Aircraft	Make							Model	Series			
ł	Cessna							206H				
	Name (As	s shown on	regist	ration certificate)				Address (As		-	-	certificate)
2. Owner								Address 4843		Lake	RD	Citria Milina canada
		تفحاده احم						City Dulu	n 3-122	0		
	INOrthia	no Aviau		Duluth LLC		2 E	or FAA Use		5-122	5		y Onneu States
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Address <u>6895</u> City Emba				State MN	-	-+		ficated Mechanic Repair Station			C. Certifi	cate No.
zip 55732		untry USA			-	-+		Aaintenance Orga	nization		212101	o
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have b	een made in	accordanc	æ with	the requirements the best of my	s of F	bart	43 of the U.S	5 above and d Federal Aviation	escribe on Reg	ulation	ne reversions and the	e or attachments hereto at the information
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per 14 CFR F		[-]	5		\sim		-	A /	-			
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FAA Form	337 (10.06)											•

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft	nationality and registration mark	and date work completed.)
	N908EN	03/29/2013
Installed Wipaire wing tip extensions per STC SA914NE an Balance updated. Flight Manual updated and aircraft placar	ded Vne=165Knots.	ber W-MD126. Weight and
CNU		
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FAA Form 337 (10-06)	Sheets Are Attached	

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of Transporta Federal Avia Administrati	lion Lion	(Airfra	me, P	owerplant, Proj	pell	ler, or App	liance)				
instruction		sition of thi	is form.								sequent revision therec sult in a civil penalty for
		ty and Reg	istration	Mark			Serial No.	-			
1. Aircraft	N908El Make						20608105 Model				Series
	CESSN						206H				00
			n ronist	ation certificate)			Address (As a	shown	on reais		
	· ·		0	,			Address 4843				
2. Owner		ILAND /	AVIAI	ION OF DULUT	нι		City DULL	ITH			State MN
							Zip <u>88803</u>	3-122	9	Count	v UNITED STATES
					3. 1	For FAA Use	Only				
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4. T	уре				5.	Unit Identific	ation				
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per 14 CFR			Aaro	on Holmgren			H				3/24/2012
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				7. Ap	pro	val for Return	n to Service				
				ns specified below ninistration and is	, th		ied in item 5		inspected Rejected	l in the	e manner prescribed b
		ame	Man	ufacturer	м	Aaintenance Organization			Persons Approved by Canadian Department of Transport		
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Administra BY Certificate o	nspector AA Designee		Repa	air Station X ture/Date of Authori			orization	Othe	er (Speci	fy) 	
Administra BY	nspector FAA Designee r No.		Repa				orization	Othe	er (Speci	ify)	3/31/2012

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FAA Form 337 (10-06)

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NOTICE	
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

	N908EN	3/31/20	12
	Nationality and Registra	tion Mark	Date
stalled Rosen Sunvisor kit (P/N RSC-300-2) IA eight and balance changes negligible. Instruct			
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FAA Form 337 (10-06)

United States of America Bepeartment of Transportation Federal Aviation Administration

Supplemental Type Certificate

Number SA00871SE

This certificate, issued to

Rosen Sunvisor Systems, LLC 86365 College View Road Eugene, OR 97405

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. SA00871SE for a list of approved aircraft
Model:	models and applicable airworthiness regulations.

Description of the Type Design Change: Cockpit sunvisor installation in accordance with Rosen Products LLC Drawing Lists per the attached Federal Aviation Administration (FAA) Approved Model List (AML) No. SA00871SE, dated April 8, 2005, or later FAA approved revision.

Limitations and Conditions: The approval of this change in type design applies to the aircraft models listed on FAA AML No. SA00871SE. 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 interrelationships between this change and any other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this certificate and FAA AML SA00871SE shall be maintained as part of the permanent records of 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 9, 2000

Date of issuance:

January 25, 2001

Date amended: March 24, 2003; April 8, 2005

By direction of the Administrator

Date reissued:

EN271/ Criston

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.

March 24, 2003; April 8, 2005

N908EN

3/31/2012

FAA FORM 8110-2(10-68)

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U.S. Department of Transportation Federal Aviation Administration	MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)							roved 2120-0020 or FAA Use C ntification		
instructions and	disposition of this fe	ontries. See FAR 43 orm. This report is r	equired	d by law (49 U.S	.C. 1421). Failu	(or subsequine to report of	uent revi can rest	ision thereo ult in a civil p	f) for . benalty not to	
1. Aircraft	or each such violation (Section 901 Federal Avia Make Cessna				ation Act of 1958). Model 206H					
	Serial No. 20608105				Nationality and I N908EN	Registration Ma	ark			
2. Owner	Name (As shown on registration certificate) North Country Sales				Address (As sho 10697 Soul Solon Sprin	h Tracy		icate)		
DESCRI	S REQUIREMENTS AND	OMPLIES WITH APPLICAN IS APPROVED ONLY FOR TO CONFORMITY INSP 3.7. Provident of a		BOVE BY A	· .					
	DATE	PAA INSPECTORIE Id	entific	ation	FSDO			5. 1	Type	
Unit				Model	Serial No.			Repair	Alteration	
AIRFRAME		(As de	ascribe	d in item 1 abov	9)			X	-	
POWERPLANT										
PROPELLER										
APPLIANCE	Type Manufacturer									
	·····		6. Con	formity Statem	ent		I,	· · · · · · · · · · · · · · · · · · ·		
A. Agency's Na STC Aviation 1544 45th Av St. Cloud MN	e SE			B. Kind of A U.S. Certificate Foreign Certific Certificated Re Manufacturer	id Mechanic ated Mechanic			rtificate No. R393C		
hereto have	been made in acco	leration made to the rdance with the requirue and correct to the	uiremer	nts of Part 43 of	the U.S. Federal	escribed on I Aviation Re	the reve gulation	rse or attac is and that t	hments he	
Date	-24-06			nature of Author		shy		Dav	e Backes	
				al for Return To		····				
the Admini	istrator of the Feder	n persons specified al Aviation Administ	below, ration a	the unit identifie	d in item 4 was i DVED	nspected in		nner prescri	bed by	
BY FAA I	Fit. Standards clor	Manufacturer		Inspection	Authorization	Other (Sp		<u></u>		
Date of Approval	Designee	Repair Station Certificate or Designal		Canada Alrwo	ed by Transport rthiness Group			<u> </u>		
	•	BOHR39		Signature	of Authorized In	olyidual	` . .			

FAA Form 337 (12-88)

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Weight and bala compatible with	nce or operating li all previous altera	NOTICE mitation changes shall be entered ions to assure continued conformi	in the appropriate aircraft reco	ord. An alteration must be ness requirements.
	f Work Accomplis is required, attach	hed additional sheets. Identify with aircra	ft nationality and registration m	ark and date work completed.)
1. Introductio Reference AC43 and used STC S	.13-1B Chapter 1	I, Chapter, AC43.13-2A chapter 1 is of the installation. The GPS has	par.1 - thru 11, Chapter 2 par TSO-C129a Class A1.	. 21 1hru 27, AC20-138a,
<u>Manufacturer</u> Bendix King	Equipment KCS55A	Description Compass system	<u>Install Man P/N</u> 006-00111-0010 rev 10	
Bendix King Garmin	KN62/A/64 GNS430 TAS600	DME GPS/Nav/Com	006-00144-0005 rev7 190-00143-00 rev Q	
Avidyne Cessna		Traffic Advisory System. Encoding Altimeter	32-2351 rev 4 D4551-13-RPC-150	
the KN62 in the mounted on top the fuselage on t Enclosed is IFR enroute and Performed F	radio stack. Wired of the cabin. The he copilot's side. I an FAA flight Ma Non-precision ap AR's 91.411 and	55A, KLN94. AK950 relay. K120 The GNS430 to the DME, the TA FAS600 is mounted in the tail, and Reused the existing nav and com a mual Supplement Dated	5600 and to the KI525A HSI. the antennas are mounted on ntenna systems. dL for the GNS430. The the equipment list has been re al load does not exceed 80% o	The GPS antenna is top of the cabin and under GNS430 is certified for evised.
 Servicing in Maintenand Trouble sho 	formation: N/A ce instructions: N poting informatio	n: N/A		
8. Diagrams:		formation: Consult the appropria	te manufacture's install manua	al.
10. Application 11. Data: N/A 12. List of spec	of protective tre	atments: N/A	: i	
13. For commu 14. Recomment	ter category airc ded overhaul per ess limitation sec	iods: N/A		
FAA inspector a "The at for the a	ccepts the change tached revised/nev above aircraft of c	nitted to the local FSDO with a co by signing Block 3 and including v Instructions for Continued Airwo omponent major alteration have bo ns for continued Airworthiness da	the following statement: orthiness dated een accepted by the FAA,	37 and revised ICA. The
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VGOBEN

Bepartment of Transportation - Federal Abiation Administration

Supplemental Type Certificate

Number SA01933LA

This Certificate issued to

Garmin AT, Inc. 2345 Turner Road S.E. Salem, Oregon 97302

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:

Make.

Model:

Models and applicable airworthiness regulations.

* See attached Approved Model List (AML)

No. SA01933LA for list of approved aircraft

Description of Type Design

Changa Installation of Garmin Model 400W / 500W Series GPS-WAAS Navigation System in accordance with FAA Approved Garmin 400W Series Master Data List, Drawing No.: 005-C0221-00, Revision "B", dated October 1, 2007, or later FAA approved revision; or FAA Approved Garmin 500W Series Master Data List, Drawing No.: 005-C0221-01, Revision "B", dated October 1, 2007, or later FAA approved revision. Use applicable FAA approved 400W Series Airplane Flight Manual Supplement, document No. 190-00356-03, Rev. "Original", dated November 20, 2007 or later FAA approved revision; FAA Approved 500W Series Airplane Flight Manual Supplement document No. 190-00357-03, Rev. "Original", dated November 20, 2007 or later FAA approved revision; or FAA Approved Airplane Flight Manual Supplement as defined in Master Data List 005-C0221-00 or 005-C0221-01 defined above.

Binutations and Bonditions. This approval should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previous approved configuration will not introduce any adverse effect upon the airworthiness of the 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 Ibdministrator

Dato of application January 31, 2006

Date of issuance Nove

November 6, 2006



Dato reissued

Date amended November 20, 2007

By direction of the Abdministrator

(Signature) Project Manager, Systems & Equipment Branch, Los Angeles Aircraft Certification Office

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

FAA Form 8119-2(19-59)

This certificate may be transferred in accordance with FAR 21.47.

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of this supplemental type certificate.

The FAA will reissue the certificate in the name of the transferee and forward it to him.

2

TRAN	NSFER ENDORSEMENT
Fransfer the ownership of the Supplemental T	ype Certificate Number
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FAA	Form	337	(10-06)

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N908EN	04/20/2010
Nationality and Registration Mark	Date

Validated that the previous installation of one GNS 430 was installed IAW with Garmin instructions and was approved for installation as per FAA 337 the 20th of July 2006, with approval for return to service on the 24th of July 2006. Verified this aircraft and all interfaced equipment are covered under Supplemental Type Certificate (STC) and FAA Approved Model List (AML) no. SA01933LA. Original GNS430 was removed and replaced with a GNS 430W. The existed locations of the original unit was determined to meet the field-of-view requirements without the need for external annunciation. The existing RG142B GPS antenna cable was reused with a new TNC connector installed (providing compatibility with new antenna). The existing wiring and shielding was inspected and determined to be IAW the STC AML installation data. The existing GA 56 antenna was removed and replaced with a new GA 35 GPS/WAAS antenna using the approved mounting previsions of the previous installation.

A summary of the modification done to the aircraft is as follows:

1. Removed Garmin GA 56 Antenna (P/N 011-00134-00, S/N 59409426) and installed a new GA 35 GPS/WAAS Antenna (P/N 013-00235-00, S/N 56515) using the provisions left behind from the standard antenna IAW Garmin Upgrade Installation Manual P/N 190-00357-06 Rev D and STC no. SA01933LA.

2. Removed existing BNC connector on original RG142B GPS antenna cable at GPS antenna location and installed new TNC connector (P/N 31-2381) providing compatibility with new GA 35 GPS/WAAS antenna. Installation of new TNC connector done IAW the 430W Installation Manual P/N 190-00356-02 Section 3.

3. Removed Garmin GNS 430 (P/N 011-00280-10, S/N 97107046) and installed Garmin GNS 430W (P/N 011-01060-00, S/N 23405316) using the provision left behind from the standard 430 unit. Installation done IAM with Garmin Upgrade Installation Manual P/N 190-00357-06 Rev D and STC no. SA01933LA.

4. The GNS 430W was configured identical to the original 430 unit. Each interface was checked out IAW the 430W Installation Manual P/N 190-00356-02 Section 5. A copy of the checkout log was completed and included with the aircraft's maintenance records.

5. Removed the Aircraft Flight Manual Supplement for the GNS 430 and installed GNS 430 AFMS P/N 190-00356-03 Rev B, FAA Approved date 7/31/2009 into the Aircraft Flight Manual.

6. Updated the aircraft Equipment List to reflect the new WAAS unit. Weight and Balance was negligible with no change made. The current electrical load analysis remains valid since the new units draw the same or less current than the original units.

Instructions for Continued Airworthiness (ICA)

1. GNS 430W - Included Garmin document P/N 190-00356-65, GNS 430W Instructions for Continued Airworthiness in the aircraft maintenance records.

NOTE: This ICA supersedes the ICA for the previously installed GNS 430.

Additional Sheets Are Attached

N908EN 4/20/10



August 19, 2009

Subject:

STC Permission to use STC SA01933LA-D for Garmin Model 400W / 500W Series GPS-WAAS Navigation System (See AML)

Consistent with Order 8110.4B and AC 21-40, Garmin International grants permission to Garmin dealers, installers, and owners of the Garmin Model 400W / 500W Series GPS-WAAS Navigation System units to use STC SA01933LA-D and the data associated with it, for the sole and express purpose of installation and approval of the installation of the Garmin Model 400W / 500W Series GPS-WAAS Navigation System, and associated interfaces to other previously approved equipment.

GARMIN AT, INC.

Emmett Griffith Engineering Manager

Garmin AT, Inc. 2345 Turner Road SE, Salem Oregon 97302 P: 800-525-6726 20090819eg01 Page 1 of 1 - .

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U.S. Department of Transportation Federal Aviation Administration	MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)						proved .2120-0020 For FAA Use C lentification	FL 13	
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NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. Introduction:

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Reference AC43.13-1B Chapter 11, Chapter, AC43.13-2A chapter 1 par.1 - thru 11, Chapter 2 par. 21 thru 27, AC20-138a, and used STC SA00705WI for basis of the installation. The GPS has TSO-C129a Class A1.

<u>Manufacturer</u>	Equipment	Description
Bendix King	KCS55A	Compass system
Bendix King	KN62/A/64	DME
Garmin	GNS430	GPS/Nav/Com
Avidyne	TAS600	Traffic Advisory System.
Cessna	EA-401A/801A	Encoding Altimeter

006-00111-0010 rev 10 006-00144-0005 rev7 190-00143-00 rev Q 32-2351 rev 4 D4551-13-RPC-150

Install Man P/N

2. Description: Removed a KX155A, KLN94, AK950 relay, KI209A and the Directional Gyro. Installed the GNS430 and the KN62 in the radio stack. Wired the GNS430 to the DME, the TAS600 and to the KI525A HSI. The GPS antenna is mounted on top of the cabin. The TAS600 is mounted in the tail, and the antennas are mounted on top of the cabin and under the fuselage on the copilot's side. Reused the existing nav and com antenna systems.

Enclosed is an FAA flight Manual Supplement Dated _______ for the GNS430. The GNS430 is certified for IFR enroute and Non-precision approaches. Weight and balance and the equipment list has been revised.

Performed FAR's 91.411 and 91.413. The change in the electrical load does not exceed 80% of the charging system. The airplane has been test flown according to FAR 91.407 and is returned to service.

3. Control, operation information: Consult the appropriate manufacture's install/operators manual.

- 4. Servicing information: N/A
- 5. Maintenance instructions: N/A
- 6. Trouble shooting information: N/A
- 7. Removal and replacement information: Consult the appropriate manufacture's install manual.
- 8. Diagrams: N/A
- 9. Special inspection requirements: N/A
- 10. Application of protective treatments: N/A
- 11. Data: N/A
- 12. List of special tools: N/A
- 13. For commuter category aircraft: N/A
- 14. Recommended overhaul periods: N/A
- 15. Airworthiness limitation section: N/A

16. Revision: A letter will be submitted to the local FSDO with a copy of the revised FAA form 337 and revised ICA. The FAA inspector accepts the change by signing Block 3 and including the following statement:

"The attached revised/new Instructions for Continued Airworthiness dated

for the above aircraft of component major alteration have been accepted by the FAA, superseding the Instructions for continued Airworthiness dated ______. Once the revision has been accepted, a maintenance record entry will be made, identifying the revision, it's location, date of the Form 337."

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NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alternation must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify INSTALLED WIPLINE MODEL 3450A FLOATS, SERIAL		
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UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION STANDARD AIRWORTHINESS CERTIFICATE

1 NATIONALITY AND REGISTRATION MARKS	2. MANUFACTURER AND MODEL	3 AIRCRAFT SERIAL NUMBER	4 CATEGORY
N908EN	CESSNA 206H	20608105	NORMAL

5. AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein. Exceptions:

NONE

6. TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91/of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE

R 12/21/2000

Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

FAA Form 8100-2 (8-82)

☆U.S.G.P.O.: 1994-568-762

DESIGNATION NUMBER

KC-FSD0-05

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	C	6		MULT	IPLE AIRWORTHINESS	CERTIFICA	TE (Ch	eck ABOVE	Restri	cled O	eration	n an	d Standard or Limited	l. as a	pplicab	le. j*				
	L	A. REGISTERED OWNER (As shown on certificate of aircraft registration)																		
	ADDRESS Cessna Aircraft Company F.O. Eox 1996, Independence, KS 67301																			
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z	B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indica AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No									F	AIRWORTHINESS DIRE	CTIVES	S (Cheo	k il alt a	pplicable AD's c	omplie	d with and	l qive		
RTIFICATION	AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No and Revision No.) 3A4CE							$\frac{1}{X}$ A $\frac{1}{2000 - 04 - 01}$												
TIFI	Γ				ING (Give page number(s))					SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated)									
С	L				N/A							N/A ·								
OWNER'S	C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS									EXPERIMENTAL ONLY (Enter hours flown since last certificate										
III. OWI	CHECK IF RECORDS IN COMPLIANCE WITH XARXXX 91.417 TOTAL AIRFRAME HOURS 5.1									3 Issued or renewed)										
	D. CERTIFICATION – I hereby certify that I am the registered owner (or his agent) of the aurcraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Section 501 of the Federal Aviation Act of 1958, and applicable Federal Aviation Regulations, and that the aircraft bits teen inspected and is airworthy and eligible for the airworthiness certificate requested																			
	DATE OF APPLICATION NAME AND TITLE (Print or type) 12-21-00							²⁰¹ 1	Doug Pierson Signature											
	12-21-00 Quality/Reliabili								ity	<u>7</u>]	Director.	SE	X	kill		Alr	<u></u>	_		
z	A	. THE	_	_	ESCRIBED ABOVE HAS	BEEN INS	PECTER	O AND FOUN	D AIR	WORT	HY BY	(Co	mplete this 🤟 on only	I FAR	21 183(<u> </u>	5)			,
ECTION NCY CATION	2		FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.) 3 . CERTIFICATED MECHANIC (Certificate No.)								IANIC (Give		6	No.)	IFICATED REP	AIR ST.	ATION (G	ive Certificate		
A. THE AIRCHAPT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY (Complete In.s. s. on only if FAR 21 183(d) POPies) FAR PART 121 OR 127 CERTIFICATE HOLDER (Give Certificate No.) AIRCRAFT MANUFACTURER (Give name of firm) 5 AIRCRAFT MANUFACTURER (Give name of firm)																				
	DATE								SIGNATURE											
	(Check ALL applicable blocks in items A and B) A. I find that the aircraft described in Section I or VII meets requirements for									THE CERTIFICATE REQUESTED										
V. FAA IESENTATIVE ITIFICATION									4											
	B. Inspection for a special flight permit under Section VII								+	FAA INSPECTOR FAA DESIGNEE										
	was conducted by.										RTIFICATE HOLDER U	NDER		FAR 6	5 FAR 121	. 127 o	or 135	FAR 145		
V. F RESE RTIFIC	DATE DISTRICT OFFICE DESIGNEE'S						SIGNEE'S SI	SIGNATURE AND) Ala	FAR 21 SUEFART J	Τ	FAA	INSPE	CTOR S SIGNAT	URE			
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	E. Major Repair and Alteration, FAA		Ë.	J. Current Auworthiness Certi	licate tssued in Acco	ndance with
FAA				RA3		(benzellA lenignO)
	C. Data, Drawings, Photographs. etc		ļ	I. Previous Airworthiness Cen	ooA ni beusal etsoih	
VIII. AIRWORTHINESS DOCUMENTATION (FAA use only)	B. Current Operating Limitations Al			(Allach when required)		
X QS	5°T6 aldenidad se 1218		ļ	H. Foreign Airworthiness Cert	A troom tot goitesit	116131
	A. Operating Limitations and Markin	ada in Comolisade with EAB		G. Statement of Conformity, F	11A) 6-0518 mio1 AA	(рәлірәі цәрі цәрі
<u>'a</u>	TTE	(90%) AND TITLE (Punt or 1996)			3IGNATURE	
е	. CERTIFICATION — I hereby certify th cordance with Section 501 of the Fec escribed.	ייייייייייייייייייייייייייייייייייייי	seb Il noits	cribed above. I hat the aucraft is Cribed above. I hat the aucraft is Regulations, and that the aucr		n noulsiteinimbA noilsivA leisbe Mgill shi iot yrfitovus ei bis be
VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGH 	A SNOITCIFICATIONS RESTRICTIONS A	ARE CONSIDERED NECESSARY FOR SAFE OPERA	NOI:	עאניגנינינין אוואנאטעניין א		
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	ЕВОМ		or			
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	REGISTERED OWNER		Iaav	SSES		
.۸	DESCRIPTION OF AIRCRAFT					
-	NOITADIJ99A 70 JT	(90%) AMA END TITLE (Print or 1%pe)			30010000	
				4	SIGNATURE	
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VI. PRODUCTION FLIGHT TESTING	APPROVED PRODUCTION IN	SPECTION SYSTEM				
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\$ U.S.G.P.O.: 1993-769-012/80070

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UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION

STANDARD AIRWORTHINESS CERTIFICATE

1 NATIONALITY AND REGISTRATION MARKS	2 MANUFACTURER AND MODEL	3 AIRCRAFT SERIAL A	4 CATEGORY		
N908EN	<u>Cessna 206H</u>	20608105	Normal		

5. AUTHORITY AND BASIS FOR ISSUANCE

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This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein, Exceptions.

Ncne

6 TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91. The Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE

DESIGNATION NUMBER

12-21-00

FARDEPRESENTATIVE

Doug Pierson DOA-100129-CF

Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MOST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE-WITH APPLICABLE FEDERAL, AVIATION REGULATIONS.

FAA Form 8100-2 (8-82)

