Usi Department
of Transportation
<b>Federal Aviation</b>
Administration

### **MAJOR REPAIR AND ALTERATION**

OMB No. 2120-0330 Exp. 5/31/3018	Electronic Tracking Number
	For FAA Use Only

St Transportation Federal Aviation Administration  (Airframe, Powerplant, Propeller, or Appliance)																
in	struction	TIONS: Prints s and dispos tion. (49 U.S	sition of this	form.	es. See Title 1 This report is r	14 Cl requi	R red	§43.9. Part by law (49 t	43 Append J.S.C. §44	dix 8, a 701). F	nd A allur	.C 43.9 e to rep	-1 (or sul ort can re	bsequent esult in a d	revision the	nereof) for ty for each
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1, д	ircraft	U.S.A Make	N5446G	j 	· · · · · · · · · · · · · · · · · · ·				Mode		+0/	1000		Series		
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		Name (A	s shown on	registi	ration certificate	)			,	Address (As shown on registration certificate)						
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FAA Fit. Standards Manufacturer			M	isintenance	intenance Organization Persons Approved by Canadian Department of Transport			nsıt								
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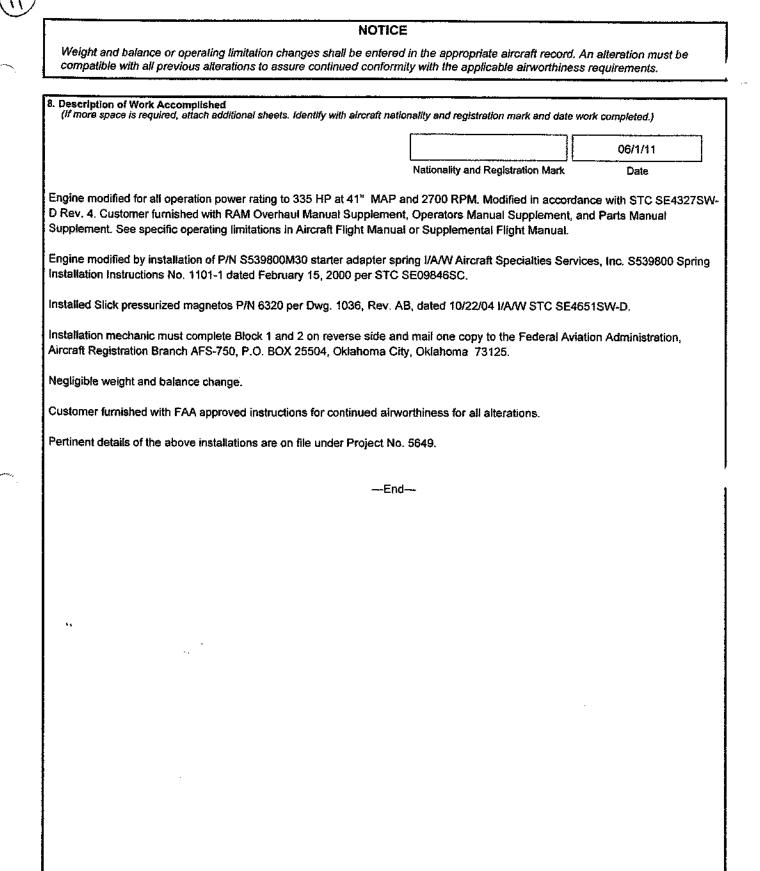
Description of Work Accomplished     If more space is required, attach additional sheets Identify with aircreft in the space is required.	narronality and registration mark	and date work completed.)
	N5446G	23/FEB/2023
	Nationality and Registration	
Removed Garmin GI275 Electronic Flight Instrum STC #SA02658SE on August 7 2020. Reference installation details. Removed Garmin GI275 w/A PN 010-02326-10 which included GI275 Unit PN backup attitude indication purposes only.	e FAA Form 337 date DAHRS Class I/II Ele	ed August 7 2020 for ectronic Flight Instrument Kit
2 Removed Garmin Gl275 Aircraft Flight Manual S	Supplement from airc	raft.
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Additional She	ets Are Attached	



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Federal Aviation
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orn Approved MB No. 2120-0020 1/30/2007	Electronic Tracking Number
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Federal Aviati Administration	on	/wnnai	ne, r	owerplant, F	rope	3 E I I	ei, Oi	whh	nance;					
instructions		ition of this	form.										osequent revision thereof) for sult in a civil penalty for each	
		Nationality and Registration Mark							Serial No.				· · · · · · · · · · · · · · · · · · ·	
1. Aircraft	Make	Maka							Model				Series	
	Name (As	shown on	regist	ration certificate)					Address (As s	showi	on re	gistration	certificate)	
2. Owner									Address				State	
								Coun						
					3	3. F	or FAA	Use	Only					
4. Ty	pe					5. L	Jnlt ide	ntifica	ation		<del></del>			
Repair	Alteration	Unit	t		Make	₽				Mod	del		Serial No.	
		AIRFRAM	IĘ						(As described in Item 1 above)					
	<b>V</b>	POWERP	LANT	Teledyne Co	ntine	nental Motors			TSIO-520-NB			145251-B		
		PROPELI	.ER								• •			
	Type  APPLIANCE Manufacturer													
		<u> </u>			6. (	Ço	nformi	ly Sta	tement					
A. Agency's I			4			B. (	Kind of	<u> </u>	<u> </u>					
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chy Waco				Sinle Texas	_ 5	Z		differented Course Statley				e Class III, Powerplant Class I		
Zip <u>76708</u>	<u> </u>	country United States					Certificated Maintenance Organization VA1R551K							
D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.														
Extended range fuel per 14 CFR Part 43 App. B Ronnie Veselka 06/1/11							lo .							
									to Service			<u> </u>		
Pursuant to the authority given persons specified below, the unit identified in Item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is  Administrator of the Federal Aviation Administration and is  Administrator of the Federal Aviation Administration and is														
1 1	A Fit. Stand spector	Manutacturer			Ma	aintenar	ice Oi	ganization		Depar	iment of T	ed by Canadian ransport		
	VA Designee		Repa	air Station	x	Jns	spection	n Auth	orization	Othe	r (Spe	cify)		
ertificate or Designation N	lo.		Signa	sture/Date of Auth	orize	ed I		1						
-	1919185		Ron	nie Veselka 06	/1/11	l	<u> Le</u>	m	ais/	<u>/</u>	Let	/ka	·	



Additional Sheets Are Attached



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OMB No. 2120-0020	Electronic Tracking Number
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F	or FAA Use Only

Administration INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a)) Nationality and Registration Mark Serial No. 1. Aircraft Make Model Series Name (As shown on registration certificate) Address (As shown on registration certificate) 2. Owner Country 3. For FAA Use Only 4. Type 5. Unit Identification Repair Alteration Unit Make Model Serial No. (As described in Item 1 above) AIRFRAME  $\nabla$ POWERPLANT **Teledyne Continental Motors TSIO-520-NB** 514238-H PROPELLER APPLIANCE Manufacturer 6. Conformity Statement A. Agençy's Name and Address B. Kind of Agency RAM Aircraft, Limited Partnership U. S. Certificated Mechanic Manufacturer Address 7505 Karl May Drive Foreign Certificated Mechanic C. Certificate No. City Waco State Texas Certificated Repair Station Airframe Class III, Powerplant Class I United States <u>76708</u> Certificated Maintenance Organization VA1R551K I certify that the repair and/or alteration made to the unit(s) identified in Item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge. Extended range fuel Signature/Date of Authorized Individual per 14 CFR Part 43 Арр. В Ronnie Veselka 06/1/11 7. Approval for Return to Service Pursuant to the authority given persons specified below, the unit identified in item 5 Administrator of the Federal Aviation Administration and is was inspected in the manner prescribed by the ✓ Approved Rejected FAA Fit, Standards Persons Approved by Canadian Manufacturer Maintenance Organization Inspector Department of Transport BY Other (Specify) FAA Designee Repair Station Inspection Authorization ertificate or Signature/Date of Authorized Individual Designation No. annie Menter IA1919185 Ronnie Veselka 06/1/11 FAA Form 337 (10-06)

8. Description of Work Accomplished (If more space is required, attach additional sheets, identify with aircraft nations.)	ality and registration mark and date v	vork completed.)
		06/1/11
	Nationality and Registration Mark	Date
Engine modified for all operation power rating to 335 HP at 41" MAP and D Rev. 4. Customer furnished with RAM Overhaul Manual Supplement, Supplement. See specific operating limitations in Aircraft Flight Manual of	Operators Manual Supplement, a	
Engine modified by installation of P/N S539800M30 starter adapter sprin Installation Instructions No. 1101-1 dated February 15, 2000 per STC SE	-	ices, Inc. S539800 Spring
Installed Slick pressurized magnetos P/N 6320 per Dwg. 1036, Rev. AB,	dated 10/22/04 I/A/W STC SE4	651SW-D.
Installation mechanic must complete Block 1 and 2 on reverse side and a Aircraft Registration Branch AFS-750, P.O. BOX 25504, Oklahoma City,		ation Administration,
Negligible weight and balance change.		
Customer furnished with FAA approved instructions for continued airwor	thiness for all alterations.	
Pertinent details of the above installations are on file under Project No. 5	649.	
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Additional Shoots	Acc March .	

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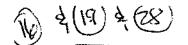
5 Department
Transportation
ederal Aviation

## MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

DMB No. 2120- <b>00</b> 20 Exp: 6/31/2018	Electronic Tracking Number
Exp: 6/31/2018	GINCHOLISC TANCKING MITLED 61.

For FAA Use Only

ederal Aviation Administration		<b>4</b>	<b>-</b> ,	r owerplant,	, , , , ,	he	mer, or App	mance)				
INSTRUCTIO instructions ar such violation	NS: Pric nd dispo i. (49 U.:	nt or type sition of t S.C. §463	all ent his form 01(a))	ries. See Title n. This report is	14 C requ	FR Jire	8 §43.9, Part of d by law (49 L	43 Appendix B I.S.C. §44701).	and AC 43 Failure to r	3.9-1 (or s eport can	ubsequent revision thereof) for result in a civil penalty for each	
1		ity and Re						Serial No.				
1. Aircraft	// Make	544	a B	<u> </u>					10006	85		
<u> </u>	C.	255,0						Model 34			Series	
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						3.	For FAA Use	Only				
4. Type						5	Unit Identific	etion				
Repair Alt	teration	Ur	nit		Ma			44011				
lumi m				<u> </u>				Model Model			Serial No.	
<u> </u>	<u> </u>	AIRFRA	WE.			(As described in Iter			ed in Item 1	above)		
		POWER	PLANT									
		PROPEL	LER	<b>-</b>								
		APPLIAN	ICE	Type Manufacturer								
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A. Agency's Name						₿.	Kind of Agenc					
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furnished he	erein is tr		rect to	the best of my	know	led	ge.	5 above and de Federal Aviation	escribed on to n Regulation	he reverse as and that	or attachments hereto the information	
Extended range fu per 14 CFR Part 4	iei Ia r	_	Signa	ture/Date of Aut	horize	ed I	ndividual		······································			
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FAA De	signee		Repa	ir Station	X	Ins	pection Autho	nzation	Other (Spec	ify)		
Certificate or Designation No.			Signat	ure/Date of Auth	norize	d le	ndividual		<u> </u>			
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more space is required, attach a	additional sheets. Identify with air	craft nationality and registra	tion mark and date work co	mpleted.)
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OMB No. 2120-0020 Exp: 5/31/2018	Electronic Tracking Number
	For FAA Use Only

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1. Aircraft	N	5446-1	<u>B</u>					3400	068	)	Series
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		SSNA						1 -		1-445	<i>[4</i>
	Name (As	shown on re	gistration certificate)					Address (As show			centricate)
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4. Ty	me	<u>,                                      </u>			5.	Unit Id	entifica	ation			
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		APPLIANC	E Manufacturer			<del>,</del>					
	<u> </u>	<u>, I </u>		6.	. Ĉ	onform	ity Sta	tement			
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	mos		old		Z						nufacturer
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Zip 27x	25 °C	Suntry US			Certificated Repair Station  Certificated Maintenance Organization  3683097				3097		
D. I certi	fy that the rep	n accordance true and cor	e with the requirements rect to the best of my l	s or know	Pa wle	in 43 or edge.	uie O.	n 5 above and desc S. Federal Aviation I	ribed on l Regulatio	the revers	se or attachments hereto at the information
Extended re	ange fuel		Signature/Date of Aut	hori	zec	d Individ	dual				
per 14 CFR	Part 43		4/		2	11	5%	und-	20	0-9	n 160
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Pursuant	to the auth	nority given	persons specified be on Administration and i	elow	ημητί /, t	the uni	t ident	ified in item 5 wa	s inspec	ted in th	ne manner prescribed by the
	FAA Fit. Stan		Manufacturer		ţ	Mainter	nance (	Organization -	Pers Deps	ons Approv	ved by Canadian Transport
) BY	Inspector FAA Designe		Repair Station	X		Inspect	ion Au	thorization	Other (Spe	ecify)	
Certificate	or	<u> </u>	Signature/Date of Aut	thor	ize	d Indivi	dual			·	<u></u>
Designation		;	نر/ب			Ac	51			21. M	>
1 36	83097	<del>/</del>	Thomas.		_		EH L	Mike Y	- CY-	<u> </u>	<u> </u>

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Form Approved OMB No. 2120-0020 11/30/2007	Electronic Tracking Number				
For FAA Use Only					

Adi	mmstration												
ins	structions	and disposi on. (49 U.S.	ition of th .C. §4630	his form. )1(a))	. This report is re	CFR quire	§4 d b	13.9, Part 43 y law (49 U.s	Appendix B, at 3.C. §44701). Fa	nd AC ailure	43.9- to repo	1 (or subs ort can res	sequent revision thereof) for out in a civil penalty for each
		Nationalit	Nationality and Registration Mark						Serial No.				
1. Ai	ircraft	Make					_		Model				Series
		ITTERS							Triodo.			`	series
		Name (As	s shown c	วก regist	ration certificate)			<u> </u>	Address (As a	showi	on reg	istration o	ertificate)
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Name	<u> </u>	Aircraft. Lir		artnersl	nip	士	Ī		ited Mechanic			Manu	rfacturer
		Karl May D	Orive		<b>7</b>	_ [	ightharpoons		ficated Mechanic C. Certificate		cate No.		
City Zip	Waco 76708		<sub>untry</sub> Unit	ted Sta	state <u>Texas</u> tes	- 4	4	Certificated F	tepair Station faintenance Organ	lzalio	n .	Airframe	Class III, Powerplant Class I VA1R551K
	I certify have be	that the rep en made in	accordan	nce with correct to	the requirements o the best of my k	s of Pa knowle	art 4 leđg	lentified in ite 43 of the U.S ge.	m 5 above and	desc	ribed o	n the reve is and that	erse or attachments hereto
	nded rang 14 CFR Pa . B				ature/Date of Auth nie Veselka 06/			ndividual A	ni melle	1/,	11.	l ka	7
								al for Return					
					ons specified bel ministration and is		the	unit identifi	ed in item 5 v		nspecte Rejecte		manner prescribed by the
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	FA	A Designee		Repa	air Station	X	ins	spection Author	prization	Othe	r (Spe	cify)	
	ficate or	•		Signa	ature/Date of Auth	norize	d Ir	ndividual				_	
Designation No. IA1919185  Ronnie Veselka 06/1/11							1						

of the stription of work Accomplished (If more space is required, attach additional sheets, identify with aircreft national	lity and registration mark and date wo	rk completed.)
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Pertinent details of the above installations are on file under Project No. 5	649.	
End-		
<del>-</del> .		
Additional Sheets	Are Attached	

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	<b>Federal Aviation</b>

OMB No. 2120-0020 11/30/2007	Electronic Tracking Number
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Federal Aviati Administration		·				•	ŕ			
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	Nationalit	y and Regi	stration	n Mark			Serial No.	•		
1. Aircraft	Make						Model Se			Series
	Name (As	shown on	registi	ration certificate)			Address (As	shown on re	gistration o	certificate)
2. Owner							Address			· - · · · · · · · · · · · · · · · · · ·
2. 0							City		Count	State
					3.	For FAA Use				
3. For FAA Use Only										
4. Ty	pe				5,	Unit Identific	ation			
Repair	Alteration	Uni	ŧ	Ma	ake			Model		Serial No.
<u> </u>		AIRFRAN	Æ.				(As describe	ed in Item 1	abova)	
	$\square$	POWER	LANT	Teledyne Conti	nen	ital Motors	TSIO-520-NB			145251-B
		PROPEL	LER							
		APPLIAN	CE	Type Manufacturer						
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A. Agency's I	Aircraft. Li		tnersh	nin.	B.	Kind of Agen	ated Mechanic		Man	ufacturer
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Cay Wacc				State Texas	<b>√</b>	Certificated	1 - 1 - 1 - 1			e Class III, Powerplant Class I
Zip <u>76708</u>	<u> </u>	Unite	ed Star	tes		Certificated	Maintenance Organ	nization		VA1R551K
have be	een made in	accordance	e with	ion made to the uni the requirements of the best of my kno	Par	t 43 of the U.S				erse or attachments hereto It the information
Extended ran per 14 CFR F App. B				iture/Date of Authori ie Veselka 06/1/1		Individual		11.	11	6.
			1.(0)111			val for Retun	1 to Service		Left o	<u> </u>
Pursuant t Administrat	o the autho or of the Fed	ority given deral Aviati	perso ion Adr	<u>,</u>	_	ne unit ident <u>i</u>		was inspec		manner prescribed by the
ln:	A Fit. Stand	lards	Man	ufacturer	М	laintenance O	rganization		ons Approve	d by Canadian ansport
BY F/	A Designee		Repa	air Station X	ſr	nspection Aut	orization	Other (Spe	ecify)	·
ertificate or	14	•	Signa	ture/Date of Authori	ized	Individual		•		·· <del>···</del> · • • • • · · ·
Designation N	io. A1919185		Roni	nie Veselka 06/1/	11	Lan	aic/	Leis	Il.	
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8. Description of Work Accomplished (If more space is required, attach additional sheets, Identify with aircraft national sheets)	onality and registration mark and date	work completed.)
		06/1/11
	Nationality and Registration Mark	Date
Engine modified for all operation power rating to 335 HP at 41" MAP at D Rev. 4. Customer furnished with RAM Overhaul Manual Supplement Supplement. See specific operating limitations in Aircraft Flight Manual	t, Operators Manual Supplement,	
Engine modified by installation of P/N S539800M30 starter adapter sp Installation Instructions No. 1101-1 dated February 15, 2000 per STC		vices, Inc. S539800 Spring
Installed Slick pressurized magnetos P/N 6320 per Dwg. 1036, Rev. A	AB, dated 10/22/04 I/A/W STC SE4	651SW-D.
Installation mechanic must complete Block 1 and 2 on reverse side an Aircraft Registration Branch AFS-750, P.O. BOX 25504, Oklahoma Cit		iation Administration,
Negligible weight and balance change.		
Customer furnished with FAA approved instructions for continued airw	orthiness for all alterations.	
Pertinent details of the above installations are on file under Project No	o. 5649.	
Enc	<b>ქ</b>	'
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Additional She	ets Are Attached	

US Department
of Transportation
Federal Aviation
administration –

OMB No. 2120-0020 Exp: 5/31/2018	Electronic Tracking Number
	For FAA Use Only

of Transportati Federal Aviat Administratio	ion	(Airfram	e, Powerplant	, Prop	elle	er, or Appl	iance)				
instruction	TIONS: Print s and dispos tion. (49 U.S	ition of this	form. This report i	e 14 CF is requir	R §4 ed b	43.9, Part 43 by law (49 U.5	Appendix B, a S.C. §44701). F	nd A0 ailure	to rep	·1 (or sui ort can re	bsequent revision thereof) for each
	Nationalit		tration Mark		Serial No. 340AC			.068	5		
1. Aircraft	Make Cessna										Series
	Name (As shown on registration certificate)  Address (As shown on registration certificate)										certificate)
2. Owner	Smoky	y Mount	ain Air Chart	er LL	С		Address 775 Ra				State Tennesse
							Zip 37871			Coun	try USA
					3. F	or FAA Use	Only				
1											
4. T)	/pe		<del></del>		5. U	Init Identifica	ntion				
Repair	Alteration	Unit		Ma	ke			Mod	lel		Serial No.
	x	AJRFRAM	E Cesson	9			(As described in Item 1 above) 340A0685			340A0685	
		POWERP	LANT			1.4					
		PROPELL	ER								
		APPLIANO	Type  CE Manufacturer								
						•					
		····		6		nformity Sta					
	Name and A	ddress			X	Kind of Agend U. S. Certific	ated Mechanic			Mai	nufacturer
Name John Address 4917 8k					H		ficated Mechanic				ficate No.
City Pikey		untry USA	State Tennes:	sée	H		Repair Station Maintenance Organ	rizatini	7		3493738
D. I certif	y that the rep	pair and/or a	Iteration made to the with the requirem	ents of	Part -	entified in item 43 of the U.S	5 above and de	escrib	ed on ti	he revers ns and the	e or attachments hereto at the information
Extended ra per 14 CFR App. B			Signature/Date of	Authoria	zed l	Dueit	- 08	٥-`	7-	201	20
						al for Return				- 4 5- 45	
Pursuant Administra	to the auth	ority given deral Aviatio	persons specified on Administration a	I below ind is	, the	unit identif	ied in item 5 x	was i	rejecte	<u>a</u>	e manner prescribed by the
	AA Fit. Stand	dards	Manufacturer		Ма	aintenance O	ganization		Depar	tment of T	red by Canadian ransport
	AA Designe	e	Repair Station	X	<u> </u>	spection Auth	orization	Othe	er (Spe	<i>спу)</i> 	
Certificate of Designation	No. 34937	738	Signature/Date of	Authori	zed آ ک مر	Individual Dvet	- 68	T-0	フー	207	-D

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8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft national	ity and registration mark and dat	e work completed.)
		07-AUG-2020
<u> </u>	ationality and Registration Mark	Date
1) Introduction: Install J.P. Instruments EDM 790 twin to	emperature indicating	display.
2) Description: Removed JP Instruments EDM 760 P/N EDM 790 Display P/N 760000-6C using existing wiring Instruments STC# SA00729SE and in reference with J. No. 760 Rev. NC Dated July 20, 1999.	narness. Installation d	one IAW J.P
Inserted EDM-760 AFMS Doc No. 760 Rev. NC Dated	August 31, 1999 into t	he aircraft.
Weight and Balance revised.		
Instructions for Continued Airworthiness:		
There are no field adjustments and or calibration require after initial installation. ICA is not required. Maintenance components is limited to removal and replacement of Ji components as described in the troubleshooting section	e of non-functioning or I factory supplied nev	· malfunctioning w or repaired
<ol> <li>Control Operating Information: Unchanged.</li> <li>Servicing Information: Not Applicable.</li> <li>Maintenance Instructions: See troubleshooting section Troubleshooting Information: See troubleshooting section Removal and Replacement Information: See troubleshooting Section Diagrams: See applicable J.P. Instruments IM Report EDM 790.</li> </ol>	ection of the installationshorting section of the ort No. 760 Rev. NC d	n manual. e installation manual. ated July 20, 1999 for
<ol> <li>Special Inspection Requirements: No special inspection</li> <li>Application of Protective Treatments: None require</li> <li>Data: STC# SA00729SE.</li> </ol>	ction requirements app d for these installation	oly. ns.
<ul> <li>12) List of Special Tools: None required for this install</li> <li>13) Commuter Category Aircraft: Not applicable.</li> <li>14) Recommended Overhaul Periods: None required.</li> </ul>	ation.	A.v.
15) Airworthiness Limitations: Not applicable.		5 (5 a a a a d a a d a 5 A A a
16) Revision: A letter will be submitted to the local FA Form 337 and Revised ICA when applicable.	A FSDO with a copy o	of the revised FAA
END-		· · · · · ·
		<b>,</b> "
Additional Sheets A	are Allached	

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US Department
of Transportation
Federal Aviation
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OMB No. 2120-0020 Exp: 5/31/2018	Electronic Tracking Number

JS Department of Transportation Federal Aviation Administration	on on n	•	owerplant, Prop				140 155	A Vessilve	annial antique thereof for		
instructions	s and disposit	or type all entri ion of this form. C. §46301(a))	es. See Title 14 CF This report is require	FR §	343.9, Part 43 by law (49 U.S	.U. 944701). Fa	liure to rep	on can res	equent revision thereof) for ult in a civil penalty for each		
	Nationality N54460	and Registration	n Mark	1442	Serial No. 340A0685						
1. Aircraft Make				inite.	U.	Model 340	eries				
	And the second second	essna		-33	011-0048		sistentian or	ertificate)			
	Name (As Smoky M	shown on regis ountain Air Ch	tration certificate)			Address (As St Address 775 Rai					
Owner 10-03302-00 (10) P/N 010-011 16-011						City Strawbe	State Tennessee				
1150					For FAA Use	Zip 37071		Country	y USA		
	Sarmin d Garmir	dder IAW 5, 2016 an	2 Altitude End	B		nder and G		X-345 T C# SA0			
4. T		1 9/3/0	and Gornán	5.	Unit Identific	ation	bio of	<del>ugshal</del>	al about 3 NS XTO od		
Repair	Alteration	Unit	М	ake			Model		Serial No.		
- Copair	10/x et	AIRFRAME	Cessna	1/1	SKX IM P	(As described in Item 1 above)			340A0685		
		POWERPLAN	т								
TOPIN	ф	PROPELLER	Lec traudino	9.9	mi faem û	Myoda as	N HISTS	Vis 100	4 OFR bart 91 227		
	os_ds	APPLIANCE	Type Manufacturer	16	ev 3. FAA	00734 IS R	FOST V	MS, P1	nserted GTX-345 Ap 16 aircraft.		
		<u> </u>		6. C	Conformity St	atement	dhow	iA bour	structions for Conti-		
. Agency's	s Name and A	Address		-	3. Kind of Ager	cated Mechanic		Mar	ufacturer		
	et Voshell amilion Springs Rd	WTIA DBUT	tions for Cont	×		rtificated Mechanic	PE AUT		icate No.		
Juliusa	caster		State Kentucky			ated Repair Station			3156299		
ip 404		ountry USA				Maintenance Orga		n the revers			
have	been made i	n accordance w	ation made to the uni ith the requirements o t to the best of my kn	of Pa	art 43 of the U.	S. Federal Aviation	on Regulat	ions and the	e or attachments hereto		
Extended of per 14 CFI App. B		Sig	gnature/Date of Author		(hul		SUNI	12019			
Pursuan	t to the aut	nority given pe	rsons specified belo Administration and is	Appi ow,	roval for Retu the unit iden	rn to Service tified in item 5	was insp	ected in th	e manner prescribed by th		
$\top$	FAA Flt. Star	ndards	lanufacturer		Maintenance		De	epartment of	ved by Canadian Fransport		
BY	FAA Designe	ee R	epair Station	X	Inspection Au	thorization	Other (S	Specify)			
Certificate Designation	or on No. 3156	3299 Si	gnature/Date of Auth		ed Individual	al .	13/5	UN/a	2019		

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Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft national sheets.	onality and registi	ation mark and da	te work completed.)
•.	N5446G		13/Jun/2019
		Registration Mark	Date
Removed: Garmin GTX-330 Transponder P/N 011-00 wiring/hardware.	)455-00, AC	K A30 Enco	der and associated
nstalled: Garmin GTX-345 ADS-B in/out Transponde and Garmin GAE12 Altitude Encoder P/N 011-03080	r P/N 011-0 -00.	93302-00 (Ki	t P/N 010-01216-01)
A summary of the modification done to the aircraft as	follows:		
Installed Garmin GTX-345 Transponder and Garmin International, Inc STC# SA01714WI dated May 1, 20 International, Inc. STC MDL 005-00734-04 Rev. 13 d	13 amende	d March 8, 2	r IAW Garmin 016 and Garmin
The GTX-345 was interfaced to existing Garmin GNS and altitude interfaces.	5530W and	Garmin GA	E12 for required GPS
Each interface was checked out IAW the GTX-3XX II 2019.	M P/N 190-	00734-10 Re	ev 12 dated April 10,
The installed ADS-B OUT system was shown to mee 14 CFR part 91.227.	et the equip	ment perforn	nance requirements o
Inserted GTX-345 AFMS, P/N 190-00734-15 Rev 3. the aircraft.	FAA approv	ved dated De	ecember 21, 2017 into
Instructions for Continued Airworthiness:			
Follow Garmin GTX-345 MM/ICA P/N 190-00734-11 revision.	Instruction	s for Continu	ued Airworthiness late
Weight and Balance revised.			
EN	ID	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Additional Cha	ets Are Attached		•

2
US Department
of Transportation
Federal Aviation
Administration

OMB No. 2120-0020 Exp: 5/31/2018	Electronic Tracking Number
1.	

US Departmen	nt (Victoria)		R REPAIR AN				Total Language	EIT DO		For FAA Use Only	
of Transportati Federal Aviati Administratio	ion	(Airframe, F	owerplant, Pr	rope	ller, o	r Applia	ince)				
instruction	s and disposi	or type all entri tion of this form C. §46301(a))	es. See Title 14 . This report is re	CFR	§43.9, d by lav	Part 43 v (49 U.S.	C. §44701).	Failure to	report can re	sequent revision thereof) for sult in a civil penalty for each	
	Nationality and Registration Mark N5446G  Make Model Model								685		
Aircraft							Series R xibned :bevomeR				
Owner						75-260 75-260 75-27-	Address (A			State Tennessee	
Saltion	1.100011 08	D. IDAUSIW	urani giri			AA Use C	Zip 378	371	Count	ry USA	
a False		h 825681	c STU# SAI					l encb r	odification X200 MF	nstalled: Garmin Giv summary of the mo nstalled Garmin GM	
4. T		ed March	Rev E day			0-600 Identifica		II, Inc. S	einations	thi nimus gammin link	
Repair	Alteration	Unit	A Dennisy St. H.	Make	е	2742 11	White of	Model	-8-	Serial No.	
	х	AIRFRAME	Cessna		(As described			ribed in Iten	1 above)	340A0685	
y 20,-	apride 1	POWERPLAN	71 20-10000 T	HUBB	1. 1943	OUSAN	E THITAS	157 9th #1	retibe u	015	
	010 -00	PROPELLER	natsb pavou	108	AAE	8 ve	307-01	190-001	MS.PM	A 005XMD bahaan	
		APPLIANCE	Type Manufacturer						nia beur	irorati nstructions for Contr	
	netal and	purity and A	nounitro O s			rmity Stat	-	001 1/05	401.00	Olow Garmin GMX	
	Name and A	Address	7,10,101 - 15-10-0/-1	-		of Agenc	y ited Mechanic	Steel Carl	I I Ma	nufacturer	
	t Voshell amilton Springs Rd			_	^ -		icated Mecha			ficate No.	
1000000	caster 44 Co	ountry USA	State Kentucky	_	C	ertificated F	epair Station		3156299		
D. I certi	been made in	n accordance wi true and correc	th the requirement t to the best of my	ts of P know	Part 43 dedge.	of the U.S	5 above and Federal Av	d described iation Regul	on the revers ations and th	se or attachments hereto at the information	
Extended roper 14 CFF App. B		Sig	nature/Date of Au	1	1	lul	As Section		sun/a	1019	
Pursuant Administr	to the auth	nority given per ederal Aviation A		elow,		nit identif	to Service ed in item Approved	5 was ins	pected in the	ne manner prescribed by th	
	FAA Fit. Stan	dards	anufacturer		Mainte	enance O	ganization		Department of	ved by Canadian Transport	
BY	FAA Designe	e R	epair Station	Х	Inspe	ction Auth	orization	Other	(Specify)		
Certificate of Designation	or n No. 3156	299 Sig	gnature/Date of Au	thoriz	ted Indi	vidual	omusa.	· colored	2019	and a state of the same of	

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<ol> <li>Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nat</li> </ol>	tionality and registration mark and	date work completed.)
	N5446G	13/Jun/2019
and the second of the second o	Nationality and Registration Ma	
Removed: Bendix RT-131A RT P/N 4000763-3101, I 4000946-5201, Bendix DA-144A Antenna Drive P/N 066-1072-00, King KI-227 ADF Indicator P/N 066-30 071-2008-00, Bonzer Radar Altimeter P/N A1-76, PS PC-125 Static Inverter.	4000790-4406, King k 63-00, King KA-25 Iso	KR-87 ADF Receiver P/N plation AMP P/N
Installed: Garmin GMX200 MFD P/N 011-01465-00.		
A summary of the modification done to the aircraft as		
Installed Garmin GMX200 MFD IAW Garmin Internat 2006 and Garmin International, Inc. STC MDL 005-C	-	
The GMX200 was interfaced to existing Garmin GNS GTX-345 for TIS/FIS-B.	3530W for required GF	PS/Altitude and Garmin
Interface was checked out IAW the Garmin GMX200 2015.	IM 190-00607-04 Re	v. J dated February 26,
Inserted GMX200 AFMS, P/N 190-00607-01 Rev. B aircraft.	FAA approved dated	July 13, 2007 into the
Instructions for Continued Airworthiness:		
Follow Garmin GMX200 ICA P/N 190-0060-00 Instru revision.	actions for Continued A	Airworthiness latest
Weight and Balance revised.		
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Additional Sher	ets Are Attached	



Elecronic Tracking Number
or FAA Use Only

Admini	istration											
instruc	RUCTION ctions and violation (4	dispos	ition of th	his form	ries. See Title 14 CFR 4 n. This form is required by	3.9, P y law	art 43 Ap (49 U.S.C	pendix B, and AC 43 2. 44701). Failure to	3.9-1 repor	(or subsequ t can result	ent in a	revision thereof) for civil penalty for each
4 4.	Nationality and Registration Mark  N5446G  Aircraft						Serial No. 340A0685					
1. AIR	craft	Make C	essna					Model 340A	Seri			ies
2. Ow	ner	S	(As show cott Sn ba SES	ider	egistration certificate) ion			Address (As show 2040 Homester Turner MT 59542-9628		-	certi	ificate)
						3	. For FA	A Use Only				
4. Typ	e				<b></b>		5. Unit ld	lentification			- 1	
Repai	r Alter	ation	Un	it	Make			Mo	del			Serial No.
		X	AIRFRA	AME	*******	**	(As described in item 1 above)				***************************************	
	]   [		POWER	RPLAN	т							
	ם   כ	<u> </u>	PROPE	LLER								
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	ency's Na	_	d Address	s 		B. K	ind of Age	ency ificated Mechanic			γ	Manufacturer
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	ngs MT 05 USA					X						C.R.S. NH2R031L
							Certificated Maintenance Organization					
h	ave been	made ir	accorda	ance w	ration made to the unit(s) ith the requirements of Pa t to the best of my knowl	art 43	of the U.	m 5 above and desc S. Federal Aviation I	cribed Regul	on the reve ations and t	erse that	or attachments hereto the information
	led range CFR Pari			\$	ignature/Date of Authoriz	ed In	dividual	7				
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					ns specified below, the ur Administration and is	nit ide	ntified in i		d in th Rejec		res	cribed by the
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	cate or nation No.				Signature/Date of Authoriz							
С	.R.S. NH2	:R031L					1/de.	K		2-26	- /	/3

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.)

#### Cessna 340A N5446G

Installed a Garmin GNS 530W Nav/Comm/WAAS GPS system as per STC SA01933LA-D using the Garmin G500W Series Installation Manual P/N 190-00357-02 Rev G.

The GA 35 WAAS GPS Antenna was installed on the forward top of the fuselage as per STC SA01695SE, using the GA 35 Installation Manual P/N 190-00569-00 and the MYNAH Aircraft Stuctures approved DER report #2003.

The Garmin GNS 530W Nav/GPS analog deviation outputs were interfaced to the existing King KI 525A H.S.I. indicator and the Cessna 400BIFCS autopilot as per the GNS 500W Series Installation Manual and the King KCS 55A H.S.I. and Cessna autopilot wiring diagrams.

The GNS 530W was interfaced to the NAT AMS 44 audio panel for com and nav inputs as per the GNS 530W and NAT AMS 44 installation manuals.

The GNS 530W was interfaced to the Garmin GTX 330 transponder as per the GNS 530W installation manual and the GTX 330 installation manual p/n 190-00207-02 rev S for mode C input and start/stop functions.

The existing avionics cooling fan was used for cooling of the GNS 530W.

The weight and balance and equipment list was updated.

The work was accomplished as per the manufacturers' Installation Manuals, AC 20.138c and acceptable practices of AC 43.13 1B & 2B. An electrical load analysis was completed as per AC 43.13 1B Chapter 11 section 3 para 11-30 thru 11-32 and the installation was found to have no negative affect on the electrical load capability of the electrical system.

The aircraft was ground and flight checked for operations of the GNS 530W as per the Garmin G500W Series Installation Manual and the GNS 530W system was found to meet the IFR requirements of the AC 20.138c and the Garmin Specifications for GPS approved primary navigation under TSO C146a. A copy of the checkout log was included with the aircraft records. A FAA approved Flight Manual Supplement Garmin P/N 190-00357-03 Rev B for the GNS 530W was placed into the Aircraft Flight Manual and must be in the aircraft for all operations of the GNS 530W.

The continued airworthiness documents for the GNS 530W and GA 35 Antenna are in the Garmin document P/N 190-00357-65 Rev B and P/N 190-00673-01 Rev F and they were placed into the aircraft permanent records.
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### U.S. Department of Transportation Federal Aviation

# MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

OMB No.2120-0020	Electronic Tracking Number
2/28/2011	

For FAA Use Only

Federal Aviatio Administration	n							and melicina		market in the second of
nstructions	and disposit	or type all entri tion of this form U.S.C. §46301	ies. See Title CFR §43.9 i. This report is required (a)).	by	art 4 law (	3 Appen (49 U.S.(	C. §44701). Failu	9-1 (or sub re to report	seque can r	ent revision thereof) for esult in a civil penalty for
1. Aircraft	Nationality and Registration Mark N5446G						Serial No. 340A0685			
	Make CESSN	NA.		Model 340A				Series		
2. Owne	HAYES	As shown on regists				in Sec	Address (As shown on registration certificate)  Address 515 N. 19TH ST  City FARGO State ND  Zip 58102 Country USA			
			3. For	FA	A Us	se Only				
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4. 1	уре	K.	5. Unit	lde	entif	ication				
Repair	Alteration	Unit	Make				Model			Serial No.
	x	AIRFRAME	-				(As described in item 1 above		e)	
		POWERPLANT								
		PROPELLER								
		APPLIANCE	Type  Manufacturer							*
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	y's Name an					Kind of A				
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hereto	have been	made in accord	eration made to the unit(s dance with the requirement the and correct to the bes	ents	of P	Part 43 of	the U.S. Federal	scribed on Aviation Re	the re egulat	everse or attachments tions and that the
Extended rar 14 CFR Part		Signatu	re/Date of Authorized Inc	livio	dual		т	RENT TEE	TS 1	2/16/2014
			7. Approv	al f	for R	Return T	Service			
Purs	suant to the	authority given	persons specified below I Aviation Administration	, the	e uni	it identific	ed in item 5 was in	spected in	the r	manner prescribed by
BY BY	FAA Fit. Sta		Manufacturer		Maintenance Organization			Per De	rson Ap partme	opoved by Canadian nt of Transport
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Certificate of	or Designation	No.	Signature/Date of Author	orize	ed In	ndividual	100 to 1028			
2886740IA							TRENT TEETS	12/16/20	14	

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8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft no	ationality and registration mark and date work completed.)
N5446G	12/16/2014
Nationality and Registration Mar	k Date
REMOVED SDI HOSKINS FUEL FLOW SYSTEM.	LULATION INOTRICATIONS DEPORT #760 AND
INSTALLED JPI EDM 760 AND FUEL FLOW I/A/W STC SA00729SE INSTA APPENDIX A DATED 7/20/99.	LLATION INSTRUCTIONS, REPORT #760 AND
SEE REPORT 760 FOR ICAS. WEIGHT AND BALANCE NEGLIGBLE.	
END	
Additional Sheets Are	Attached

US Department of Transportation

Federal Aviation Administration

### **MAJOR REPAIR AND ALTERATION** (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

INSTRUCTIONS:	Print or type all entries.	See FAR 43.9, FAR 43 Ar	pendix B, and AC 43.9-	1 (or subsequent revision	thereof) for instructions and
disposition of this	form. This report is requ	ired by law (49 U.S.C. 142)	<ol> <li>Failure to report can</li> </ol>	result in a civil penalty no	ot to exceed \$1,000 for each
such violation (Sec	ction 901 Federal Aviation	n Act of 1958).			

disposition -	IONS: Print or typ of this form. This on on (Section 901 Fe	report i	is required by law (	(49 U.	AR 4 S.C.	l3 Appendix I 1421). Failt	B, and AC ire to repo	43.9 ort car	I-1 (or subseque n result in a civil	nt revision there penalty not to e	of) for inst exceed \$1,0	ructions and 000 for each	
1. Aircraft	Make	Make					Model						
Serial No.			Nationalit					nality and Registration Mark					
2. Owner	Name (As sho	Name (As shown on registration certificate)					Address	(As she	own on registration	certificate)			
<u> </u>			3.	Fo	r FA	A Use Only		<u> </u>					
		<del></del>									<u>.</u>		
			4.	Unit I	dent	ification					5,	Туре	
Unit	<del></del>	Make	,			Model			Serial N	0.	Repair	Alteration	
AIRFRAI	AE .			(As d	escr	ibed in item	1 above)	18 24					
POWERPL	ANT Teledyne Motors				SIO-520-NB			217643-72K				х	
PROPELI	-ER	<del></del>			<u>',</u>			<del></del>					
APPLIANCE Type						İ							
	Manufacturer												
		<u>-</u> .				Conformity S	-			I		-	
A. Agency	s Name and Add	ress			B. K	ind of Agend	<u> </u>			C. Certificate	No.		
RAM A	IRCRAFT, LIM	ITED	PARTNERSHI	IP	U. S. Certificated Mech Foreign Certificated Me			AIRFRAME		E CLASS III			
	OX 5219	0		-	X		Certificated Repair Station POWER VA1R55				PLANT CLASS I 1K		
WACO	, TEXAS 7670	0		ŀ		Manufacture							
been	y that the repair as made in accordan and correct to the b	ce with	the requirements	the un	it(s) rt 43	identified in i of the U.S. F	tem 4 abo ederal Av	ve ar iation	nd described on Regulations and	the reverse or a that the informa	ttachments ation furnis	s hereto have shed herein is	
Date				5	Signa	ature of Auth	orized In	divid	ual	^ <i>(</i>	1		
Septem	ber 8, 2003				Lar	ry D. Herr	nandez	7	alla	Mme	/		
	, <u></u>			7. /	Appr	oval for Ret	urn To Se	rvice	. 51	1	<u> </u>		
Pursuant the Federa	to the authority giv I Aviation Administ	en per	rsons specified bel and is [X]APPRO	low, th OVED	ne un	it identified in JREJECTED	item 4 w	as in:	spected in the m	anner prescribe	d by the A	dministrator of	
	AA Fit. Standards		Manufacturer		Insp	ection Autho	rization		OTHER (Specil	<b>5</b> y)			
	AA Designee	Х	Repair Station			son Approved ada Airworth							
Date of Ap	proval or Rejection	l	Certificate or Designation No.			nature of Auth			ial —	$\sqrt{ }$	0		
<u> </u>	ber 8, 2003	D41 60-	CRS VA1R5	51K	La	rry D. Her	nandez		) ary	- Allo	Sign/		
COMPUTE	R GENERATED FAA FO	HIM 33/ (	T2-66]						_ \	, +	<u> </u>		

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.)

### Cessna 340A0685 N5446G Dated 9-08-03 Engine Previous Total: 2120.00

Engine modified for all operation power rating to 335 HP at 41" MAP and 2700 RPM I/A/W RAM Report No. 91-5 dated 4/30/91. Modified in accordance with STC SE4327SW, Rev. 4. Customer furnished with RAM Overhaul Manual Supplement, Operators Manual Supplement and Parts Manual Supplement. See specific operating limitations in Aircraft Flight Manual or Supplemental Flight Manual.

Engine modified by installation p/n S539800M30 starter adapter spring I/A/W Aircraft Specialties Services, Inc. S539800 Spring Installation instructions No. 1101-1 dated February 15, 2000 per STC SE09846SC.

Installed Slick pressurized magnetos p/n 6320 per Dwg. 1036, Rev. Z dated 9/20/02 I/A/W STC SE4651SW.

Installed spring loaded induction hose clamps per Dwg. 1171, Rev. B dated 5/24/00 I/A/W STC SE3632SW.

Installation mechanic must complete Block 1 and 2 on reverse side and mail one copy to their local FSOD.

Negligible weight and balance change.

Customer furnished with FAA approved Overhaul and Parts Manual Supplements for all alterations.

Pertinent details of the above installations are on file under Project #1006/10310.

END
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US Department of Transportation

Federal Aviation Administration

# MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

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dispositi	on of this	sform. This i	report	ntries. See FAR is required by law Aviation Act of 19	(49 L	FAR 4 J.S.C.	43 Appendix . 1421). Failt	B, and AC are to repo	C 43.9 ort car	-1 (or subseque n result in a civil	nt revision there penalty not to e	of) for instr exceed \$1,0	uctions and 100 for each	
1. Aircr	aft	Make						Model						
		Serial No.						Nationality and Registration Mark						
2. Own	er	Name (As sho	WA OU	registration certificate	)			Address	(As sho	own on registration	certificate)			
				3	. Fo	or FA	A Use Only				<u></u>	··		
				4.	Unit	Ideni	tification					5. Type		
Ur	nit		Make				Model			Serial N	O.	Repair	Alteration	
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RAM	AIRCI	RAFT. LIMI	TED	PARTNERSH	IIP	U. S. Certificated I					AIRFRAME CLASS III		<b></b> [	
P. O.	BOX :	5219			- }	Foreign Certificated Mechanic				nic	PÖWERPLANT ČĽASS I VA1R551K			
WAC	O, TE	KAS 76708	3		}		X Certificated Repair Station  Manufacturer							
be	en made	in accordance	e with	Iteration made to the requirements my knowledge.	the ur of Pa	nit(s) i	identified in it of the U.S. F	tem 4 abo ederal Av	ve an	d described on i Regulations and	the reverse or at I that the informa	tachments ition furnis	hereto have ned herein is	
Date						Signa	ture of Auth	orized In	divid	ual (	1/01-	1	-	
Septe	mber i	3, 2003				Lar	ry D. Herr	nandez	1,000	torry	ALIM	nl		
					7.	Appr	oval for Retu	ırn To Se	rvice	$\sim$		21		
Pursu the Fed	ant to the eral Avia	e authority give tion Administr	en per ation a	sons specified be and is [X]APPR	low, th OVEC	ne uni	it identified in ]REJECTED	item 4 w	as ins	spected in the m	anner prescribed	by the Ad	ministrator of	
вү	FAA F Inspec	lt. Standards tor		Manufacturer		Insp	ection Author	rization		OTHER (Specif	ý)			
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Date of	Approva	or Rejection		Certificate or Designation No.		Sign	Signature of Authorized Individual							
		B, 2003 RATED FAA FOR	IM 337 (	CRS VA1R5	51K	La	rry D. Heri	nandez	<u></u>	Jally	AMA	2005		
				-						<i>'il</i>	_	· 1		

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