1. Approving Civil Aviation Authority / Country:

FAA / UNITED STATES

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:

140409140752-1-1

4. Organization Name and Address: Airmotive Engineering Corporation (PQ0003SW) 9503 Middlex San Antonio, TX 78217

5. Work Order / Contract / Invoice Number: 140752

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work
1	Cylinder Comp Assy EcPn TISN71.4BCA	AEC631397 SN71.4 B	12 EA	See Blk 12	NEW

12. Remarks:

Airworthiness Approval

Line#1-101463-12, 101464-04, 101464-06, 101464-07, 101497-01, 101497-02, 101498-07, 101601-05, 101601-06, 101602-02, 101602-04, 101630-03

☐ Approved design data and a ☐ Non-approved design data s	re in a condition for safe operation	☐ 14 CKR 43.9 Return to service ☐ Other regulation specified in Blo Certifies that unless otherwise specified in Block 12 was accomplished in Regulations, part 43 and in respect to that service.	block 12, the work identified in Block 11 and accordance with Title 14, Code of Federal
13b. Authorized Signature:	13c. Approval / Authorization No.: DMIR-832976-SW	14b. Authorized Signature:	14c Approval / Certificate No:
13d. Name (Typed or Printed): Steven Thatcher	13e. Date (dd/mmm/yyyy): 09/Apr/2014	14d. Name (Typed or Printed):	14e. Date (dd/mmm/yyyy)

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine propeller/article Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/articles(s) from the airworthiness authority of the country specified in Block1 Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown

. Approvi	ng National Aviation	2.					3. Form	Tracking Number:
	ITED STATES				ASE CERT		RMA	# 107369
4. Orga	nization Name and Address	ation Technologie	s 2345 Turne	er Road S.E.	Salem, Oregon	97302	5. Wo	rk Order/Contract/Invoice Number:
6. Item:	7. Description:	8. Part No	umber:	Eligibility	10. Quantity:	11. Serial/Batch I	Number:	12. Status/Work:
1.	MX20		270-500 KDEHJKM		ONE	60294	71	Repair
	Approved design data Non-approved design			4.	described in block	13 was accomplished	in accordance	k identified in block 12 and e with Title 14, Code of rk, the items are approved fo
15. Auth	orized Signature:		16. Approval/ Au	uthorization No:	20. Authorized Signate	ure:		21. Approval/Certificate No. JC6R634N
17. Nam	e (Typed or Printed):		18. Date:	- 4	22. Name (Typed or I	Printed): HIEU VAN NGUYEN		23. Date(m/d/y) 5~ / 13 / 2003
Where tuser/ins	taller ensures that his/	ms work in accordance ther airworthiness accordance to not constitute ins	ce with the nation epts parts/comp	one does not au onal regulations oonents/assem cation. In all ca	s of an airworthiness blies from the airwo	s authority of the count rthiness authority of th	ry specified ir e country spe	Block 1, it is essential that th
ΕA	A Form 8130-3 (6-01)		Installer must cre	oss check eligib	ility with applicable te	chnical data.		NSN: 0052-00-012-

FAA Form 8130-3 (6-01)

FAA	ing National Aviation hority/Country: \(\text{United States}\)		UTHORIZ FAA Forn	ED REL					Tracking Number:
	t-Deck Avionics, LLC	369 N	North 2370 West S	uite 102, Salt L	ake City, U	Г 84116		5. Worl Number	Order/Contract/Invoice
6. Item:	7. Description:	8.	Part Number:	9. Eligib	ility: *	10. Quantity:	11. Serial/Batch Nun	nber: 1	2. Status/Work:
1	Navigation Display		52D137-1332	Vario	ous	1	11569C	4	Overhaul
8	fies the items identified above Approved design data and a Non-approved design data s	re in a cor	ndition for safe operation Block 13.		Certifies and desc Federal return t	ribed in Block 13 Regulations, part o service.	o Service	, the work ordance w work, the	ith Title 14, Code of items are approved for
15. Author	orized Signature:		16. Approva	VAuthorization No.:	Mark Mark		platy signed by Mark Andrea con-Mark Andrea, on Pagis Deck Anterios, U.C., small-manufaca@llightdeckademics.com, c+US es: 2012; 10: 81:524-29: 40:707		proval/Certificate No.: 62R677Y
17. Name	(Typed or Printed):		18. Date (m/c	d/y):	22. Name (T	yped or Printed): Anders			te (m/d/y): ect. 09, 2012
				User/Installer	Responsibili	ties			
Where th Block 1, i Block 1.	rtant to understand that the e e user/installer performs wor is essential that the user/inst ts in Blocks 14 and 19 do not egulations by the user/installe	k in accor aller ensu	dance with the national ares that his/her airworth installation certification	regulations of an airw iness authority accep	vorthiness authorits parts/compor	rity different tha nents/assemblies f	n the airworthiness authorized the airworthiness aut	rity of the hority of	he country specified in
			ust cross-check eligibility		cal data.				NSN: 0052-00-012-90

NSN: 0052-00-012-9005

Flight-Deck Avionics LLC

369 N 2370 W suite 102 Salt Lake City, UT 84116 (801)364-4990



Date	Invoice #		
10/11/2012	1990		
	Due Date		
	10/11/2012		

Invoice

Bill To	
Doral Neeley	

Rep	P.O. No .	Terms	N Number
		Due on receipt	N5144U

Quantity	Description	Rate	Amount
7	Troubleshot heading on Sandel turning round and round during flight. Found Sandel getting heading info from NSD360 HSI in panel and going to slaving amp in tail and back to the Sandel. Found heading output of NSD 360 HSI harness looks old and possible broken wire or output from HSI bad. Also found Nav needle sticks to compass card and that could cause some problems. Removed #2 HSI NSD 360 p/n 52D137-1332 s/n 11569C for repair. Installed overhauled HSI p/n 52D137-1332 s/n 11569C. Found aircraft wire harness from HSI output has several solder splice connections in 1 foot section. Replaced wire with new wire and connected to shielded wire back in bundle going aft. Ground tested Compass slaving system IAW manufactures specs. No defects noted.	83.00	581.007
1	Overhaul of NSD 360 HSI p/n 52D137-1332 s/n 11569C cleaned inspected aligned and replaced bearings and rotor. Standard overhaul price from other shops is \$1800.00 to \$2400.00	1,300.00	1,300.00
	Sales Tax	6.85%	128.85
nank you for y	your business.	Total	\$2,009

Authorit	ving National Avaition y/Country: FAA TED STATES				ERTIFICATE APPROVAL TAG	3. Form Tracking Number: 4,042
	ization Name and Address:	G: 2345 Turner Road	armin AT, Inc. S.E Salem, Ore	egon, 97302		5. Work Order/Contract/Invoice 657432
6. Item	7. Description:	8. Part Number:	9 Elegibility: *	10. Quantity:	11. Serial/Batch Numbers:	12. Status Of Work:
1	MX 20 I/O -600 Unit	430-0270-600	TSO Article/ NA	1	6029471	MODIFIED
Origin	Approved design data and	70-500 above were manufactured in con in a condition for safe operation	C.	scribed in Block 13	herwise specified in Block 13, the was accomplished in accordance w	
15. Auth	Non-approved design data norized Signature:	16. Approval/Auth		10	21. Approval C	
17. Nam	e (Typed or Printed)	18. Date:		Same (Typed or Prin ner Owens		1/21/2005
			User/Installer R			
Where specifi specifi Stateme	the user installer performs ed in Block 1, it is essential t ed in Block 1.		tional regulations of an as at his her airworthiness a	irworthiness authoriccepts parts compo	ity different than the airworthines nents assemblies from the airwor	thiness authority of the country

Autho	ng National Aviation rity/Country: UNITED STATES	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG						cking Number: 55675
4. Organiz	zation Name and Address:	MID-CONTIN 16320 STAG VAN NUYS,	G ST		FAA CRS OL2D	061L	5. Work Ord Number: WRK01	der/Contract/Invoice
6. Item:	7. Description:	8. Part Number:	9. Eligibility	y:	10. Quantity:	11. Serial/Batch	Number:	12. Status/Work:
1	ATTITUDE GYRO	1U284-001-3 5000L-4/G519A-1	N/A		1	54063H		OVERHAULED
The work sp is considered 14. Certified	PRK ORDER REFERENT RK WAS PERFORMED DECISION OF THE PROPERTY O	as otherwise specified was carried under EASA Approval Certificate were manufactured in conforme in condition for safe operation	86M026 d out in acco e Number EAS	2 2 rdance A.145.	2/3/06 with EASA Part 14 4674. 14 CFR 43.9 Return fies that unless other described in Block 13	5 and in respect to the respect to t	Other regulation ock 13, the work in accordance in	craft component on specified in Block 13 k identified in Block 12 with Title 14, Code of items are approved for
15. Author	rized Signature:	16. Approval/Authorization	n No.:		Authorized Signatur	•	21. 4	Approval/Certificate No.: FAA CRS OL2D061L
17. Name	(Typed or Printed):	18. Date (m/d/y):		22. N	lame (Typed or Prin	nted):	23. 0	Date (m/d/y): Feb/12/2010
Where the authority o	user/installer performs work	Use kistance of this document along in accordance with the nation ock 1, it is essential that the use country specified in Block 1.	e does not au al regulations	tomati of an	airworthiness auth	ority different than	the airworthin	ness
		constitute installation certifica the national regulations by the					itain an installa	ation
FAA Form	8130-3 (6-01)	*Installer must cross-o	check eligibilit	y with	applicable technic	al data.	NS	SN: 0052-00-012-9005

Aggroving Nation Authority/Country:	al Avation	2			-	3. Form Tracking	
UNITED	STATES	AUTHORIZ FAA Form 81	ED RELEA 34-3, AIRWORTH			RMA	A # 108924
Organization !		RMIN AT Inc. 2345 Turner F	Road S.E. Salem, C	Oregon 97302		5. Wark Order(Contract Invoice Number N/A
£. (lett): 7.	Description:	8. Part Number.	9. Eligibility:	10. Quantity:	11. Serial/Batch Numb	ter. 12.	Status Work:
1.	MX20	430-0270-601 MOD: D.E	TSO: N/A	ONE	6029471		REPAIRED
	d, with reference	ce to Factory Servi ce Man ual: <u>56</u> VES: NONE CITED	0-7013-001 REV: B				, "
☐ Approv	ed design data	e were manufactured in conformity to: and are in condition for safe ope data specified in block 13.	eration. Co	ertifies that unles	Return to Service s otherwise specified in B lock 13 was accomplisher is, part 43 and in respect	lock 13, the work t in accordance w	ith Title 14, Code of
15. Autorzes Se	granue	16. Approva	all Authorization No. 20	Authorized Signatu	- H& 6"	21	Approval Certificate No.: CRS/JC6R634N
17. Name (Typed	or Printed);	18. Date:	22	Name (Typed or F	rinted): STEVE G. FETTERS	23	Date(m/d/y) 01/7.5/06 g = 3
Calle			User/Installer R	esponsibilities			
Where the user user/installer er	finstaller performations that his/	nat the existence of this document ms work in accordance with the nature of the nature	national regulations of components/assemblis rtification. In all cases	an airworthiness is from the airwor	authority of the country s thiness authority of the co	pecified in Block to ountry specified in	1, it is essential that the Block 1.
EAA Form	8130-3 (6-01)	• Installer mu:	st cross check eligibility	with applicable tec	chnical data.		NSN: 0052-00-012-900

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	
MP II	

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 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. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

.or ouch sc	ion violation (Sec	MOIT	901 rederal Aviation	ACC	01 1930).					
4 Alexandr	Make CES	SN	A			- A - A - A - A - A - A - A - A - A - A	ION			
1. Aircraft	Serial No.	2106	4851				and Registration	Mark		
						USA	N5144U			
	Name (As st	nown	on registration certifi	cate)			s shown on regis	stration c	ertificate)	
2. Owner	ACCURAT	ET	ESTING INC.			1150 CAMII	NO DEL RIO			
					. F FAA II O	SANTA BAI	RBARA		CA	93110
					3. For FAA Use O	niy				
					4. Unit Identificati	on			5. Type	
Unit		Ma	ke		Model		Serial No.		Repair	Alteration
AIRFRAME			(As	desc	cribed in Item 1 ab	ove)				X
POWERPLAN	т									
PROPELLER										
	Туре									
APPLIANCE	Manufacture	r								
				6	Conformity State	ment			•	
A Agency's	Name and Addre	ess			B. Kind of Agenc	у		C. Certi	ficate No	
					U S Certificat	ed Mechanic		TH3R8	67L	
AIRTRON					Foreign Certif	icated Mecha	inic		, R3, LIM	IITED
1880 GEN	ITRY WAY				Certificated Re	pair Station			UMENT,	
RENO, N	V 89502-4407				Manufacturer			LIMITE	D AIRF	RAME
have be	een made in acc	orda	alteration made to the nce with the requirent correct to the best o	nents	of Part 43 of the U	n 4 above and .S. Federal A	d described on the Aviation Regulati	ne reverse ons and	e or attach that the in	nments hereto formation
Date					Signature of Auth	orized Individ	dual			
	uary 23, 20	01			Jm	- (unt	Jim	Lewis	2345880
			7	. Ap	proval for Return T	o Service				
Pursuant (to the authority of	giver al Av	n persons specified iation Administration	belov and	w, the unit identifie is APPROVE	d in item 4 v	vas inspected in JECTED	the mai	nner pres	cribed by the
FA	AA Fit. Standards spector		Manufacturer		Inspection Authoriz	zation	Other (Specify)			
BY FA	AA Designee	X	Repair Station		Person Approved to Canada Airworthin				•	
Date of Appro	oval or Rejection		Certificate or Designation No. TH3R867L		Signature of Auth	orized Individ	dual	Jim	Lewis	2345880
	37 (12-88) Comp	u dos f			0	`				
C FAA Form 3	37 (12-08) Comp		on totalloc	m						

(5)
US Department
of Transportation
Federal Aviation
Administration

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

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

Fe	Transportation deral Aviation	n	(Airfra	ime, P	owerplant, F	rop	ellei	r, or Appi	iance)				
ir	nstructions	IONS: Print and disposi on. (49 U.S	ition of th	is form.	es. See Title 1 This report is r	4 CF require	R §4 ed by	3.9, Part 43 law (49 U.S	Appendi S.C. §4470	x B, an 01). Fa	d AC 43.9- ilure to rep	-1 (or sul ort can re	bsequent revision thereof) for esult in a civil penalty for each
		Nationality N5144U	y and Re		n Mark				Serial N	^{No.} 21	06485	1	
1. /	Aircraft	Make _	ess	na					Model_	T21	0		Series N
				_	ration certificate)			Addres	s (As st	nown on reg	gistration	certificate)
2. 0	Owner	Accura	ate Te	st Inc					City	Santa Ba			State CA
							2.5	- 544 !!	Zip	93110		Coun	try USA
_							3. Fo	r FAA Use	Only				
H	4. Typ			nit		Mal		nit Identifica	ition		Model		Serial No.
_	Repair	Alteration		7000000	Cessna	Iviar			/As de	escriber	in Item 1 a	ahove)	21064851
L		×	AIRFRA	ME			_		(AS 00	escribed	ini nem i e	100/0/	
			POWE	RPLANT									
			PROPE	LLER									
			APPLIA	NCE	Type Manufacturer								
_			44			6.		formity Sta ind of Agend					
A. /		lame and A	daress				x X	U. S. Certific		anic		Mai	nufacturer
Addr	5441 West B					_		Foreign Cert	ificated Med	chanic			ficate No.
City	West Jo		LICA		State UT	-	\Box	Certificated I	•			3	688325AP
Zip	84081		intry USA				Щ	Certificated I					
D	have be	en made in	accorda	nce with correct t	the requirement the best of my	ts of F	Part 4 vledge	3 of the U.S e.	5. Federal	Aviation	Regulation	ns and th	se or attachments hereto at the information
Ext per App	ended rang 14 CFR P p. B	ge fuel art 43		Signa	luulu	ithoriz		dividual -2 - 2	2017				
								I for Return					
					ons specified b ministration and		the		ied in ite Approv		as inspect		e manner prescribed by the
-12		A Fit. Stand pector	ards	Man	ufacturer		Mai	ntenance O	rganizatio	n		ons Approv	ved by Canadian Fransport
BY	FA	A Designee		Rep	air Station	x	Inst	pection Auth	orization		Other (Spe	ecify)	
Cert	tificate or ignation N	_{o.} 36883	25IA	Signa	Hunce Number			dividual 20	17				

(3)
US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION

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

of	S Department Transportatio		(Airf	rame. F	Powerplant, F	Prop	elle	r, or Appl	iance)				Territor det dinj
Fe	deral Aviation	n	,			. 5		,	,				
in	structions	IONS: Print and disposi on. (49 U.S.	ition of	f this form	ies. See Title 1 . This report is r	14 CF requir	R §4	43.9, Part 43 y law (49 U.	3 Append S.C. §447	ix B, a 01). F	nd AC 43.9 ailure to rep	-1 (or sub ort can re	osequent revision thereof) for sult in a civil penalty for each
		Nationality N5144U		Registratio	on Mark				Serial	21	06485		
1, 4	Urcraft	Make	es	sna					Model	T2	10	1	Series N
					tration certificate)					hown on reg	gistration	certificate)
2. 0	Owner	Accura	ite T	est Inc	:				City	Santa B	amino Del Rio arbara		State CA
									Zip	93110		Coun	try USA
							3. F	or FAA Use	Only				
	4. Ty	00					5. U	nit Identifica	ation				
_ '	Repair	Alteration		Unit		Ma	ke				Model		Serial No.
_		×	AIRF	RAME	Cessna				(As d	escribe	d in Item 1 a	ibove)	21064851
			POW	ERPLAN	r								
			PROF	PELLER	Time								
			APPL	LIANCE	Type Manufacturer	_							
Δ /	Agency's N	Name and A	ddress			6	-	oformity Sta					
	e Huy Bu						_	U. S. Certific		anic		Man	ufacturer
Addr	055 5441 West 6	indie Vista Cir			UT	_		Foreign Cert	ificated Me	chanic		C. Certifi	
City	West Jo 84081		untry US	SA	State UT	_	Н	Certificated I	-		l-atla-	3	688325AP
	l certify have be furnished	that the repa een made in ed herein is t	air and	dance with nd correct	n the requiremen to the best of my	ts of I	Part 4 wledg	ntified in item 43 of the U.S ge.	5 above	and de	scribed on t	he reverse	e or attachments hereto at the information
per App	ended ran 14 CFR F b. B	ge fuel Part 43			luuko	/	9	1-2-0					
-	urement to	the suth-	with a	von cor				al for Return				- d 1- 11	
A	dministrat	or of the Fed	deral A	ven pers	ons specified b	is	the		Approv		Rejecte	d	e manner prescribed by the
вч	1 1	A Fit. Stand spector	ards	Mar	nufacturer		Ма	intenance O	rganizatio	n	Depai	rtment of T	ed by Canadian ransport
		A Designee		-	pair Station	X		pection Auth	orization		Other (Spe	city)	
Des	tificate or ignation N	_{lo.} 36883	25IA	•	dature/Date of Au	ithoriz		ndividual	201-	7			

(3)
US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION

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

of To	Department ransportation eral Aviation ninistration		(Airf		owerplant, F				iance)					POPPAR USE UNITY
ins	tructions	ONS: Print and disposi on. (49 U.S.	tion of	this form.	es. See Title 1 This report is r	4 CF requir	R §	§43.9, Part 43 by law (49 U.S	S.C. §4470	01). Fa	ailure	to rep	ort can re	osequent revision thereof) for esult in a civil penalty for each
		Nationality N5144U		Registration	n Mark				Serial N	[™] .21	06	485		
1. Ai	rcraft	Make C	es	sna					Model_	T2′	10			Series N
					ration certificate)			Address				istration o	certificate)
2. 0	wner	Accura	ite i	est Inc					City	Santa Ba	_			State CA
							3.1	For FAA Use	Zip	93110	_		Count	try USA
	4. Typ	oe .					5. (Unit Identifica	tion					
R	tepair	Alteration		Unit		Mal	ke				Mod	lel		Serial No.
		x	AIRF	RAME	Cessna				(As de	escribe	d in It	em 1 a	bove)	21064851
			POW	ERPLANT										
			PRO	PELLER	-									
			APPL	LIANCE	Type Manufacturer									
Α Λ	anner/e h	lame and A	dress			6.	-	onformity State Kind of Agence						
A. A.	gency's N Huy Bui		JUI 622				-	U. S. Certifica		nic			Man	ufacturer
Addre	\$5 5441 West B	ndie Vieta Cr				_		Foreign Certi					C. Certifi	cate No.
City	West Jo 84081	No. of the last of	intry U	SA	State UT	_	_	Certificated R Certificated N			ization	,	30	688325AP
	I certify	that the repa	air and	d/or alterati dance with d correct t	the requiremen the best of my	ts of I	Part	t 43 of the U.S Ige.	5 above a	and de: Aviation	scribe n Reç	ed on the	ne reverse as and tha	e or attachments hereto at the information
Exte per 1 App.	nded rang 14 CFR P . B	ge fuel art 43		Signa	ature/Date of Au			9-2-		_				
		the sate	dit					val for Return			/20 I	nenest	nd in the	manner proceded by the
Ad	ministrato	or of the Fed	leral A	viation Ad	ons specified by ministration and	is	, th	e unit identifi	Approv	ed ed		Rejecte	d	e manner prescribed by the
BY	1000	A Fit. Stand spector	ards	Man	ufacturer		М	aintenance Or	ganization	1	Othe		tment of Tr	ed by Canadian ransport
		A Designee			air Station	X		spection Auth	orization					
Certi Desi	ficate or gnation N	o.36883	25IA	Signa	ature/Date of Au			9 - 2 -	20	17				

(3)
US Department
of Transportation
Federal Aviation
Administration

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

MB No. 2120-0020	Electronic Tracking Number
	For FAA Use Only

	ral Aviation	Ŋ.	(aine	, rowerplant, r	Юр	0110	i, oi Appii	ance						
inst	ructions	ONS: Print and disposi n. (49 U.S.	tion of	f this fo	orm. This report is re	4 CF	R §	43.9, Part 43 by law (49 U.S	.C. §4470	01). Fa	ilure	to repo	rt can res	sequent is sult in a c	revision thereof) for civil penalty for each
		Nationality N5144L		Registra	ration Mark		Serial No. 21064851								
1. Air	craft	Make		sna	 a								eries N		
Name (As shown on registration certificate) Accurate Test Inc									s (As si			stration c	ertificate)		
2. Ow	. Owner Acculate 1 est 111c								City	Santa Ba	_				State CA
								or FAA Use (Zip	93110	-		Countr	y USA	
	4. Typ	•					5. L	Jnit Identifica	tion						
Re	epair	Alteration		Unit		Mal	ke		Model				Serial No.		
		x	AIRF	RAME	Cessna				(As described in Item 1 above)			bove)	21064	851	
			POW	/ERPL/	ANT										
			PRO	PELLE	ER .										
			APPI	LIANCE	Type Manufacturer										
Λ Λο	anci/e N	ame and A	ddrass			6.	_	onformity State Kind of Agence							
Name	Huy Bui		30,000				х	U. S. Certifica		anic			Man	ufacturer	
Addres	5 5441 Weet Br				UT	_		Foreign Certi					C. Certifi	cate No.	
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FAA Form 8130-3 (02-14)

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FAA Form 8130-3 (02-14)

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2 APRIL 2018 Page 5 of 6 TACH: 677.7

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FAA Form 8130-3 (02-14)

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2 APRIL 2018 TACH: 677.7

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TACH: 679.7

2016-16-12 Continental Motors, Inc. (formerly Teledyne Continental Motors, Inc., formerly Continental): Amendment 39-18610; Docket No. FAA-2012-0002; Directorate Identifier 2011-NE-42-AD.

(a) Effective Date

This AD is effective September 15, 2016.

(b) Affected ADs

None.

(c) Applicability

This AD applies to all Continental Motors, Inc. (CMI) model -520 and -550 reciprocating engines, and to all other CMI engine models approved for the use of model -520 and -550 cylinder assemblies such as the CMI model -470 when modified by supplemental type certificate (STC), with Continental Motors Inc., San Antonio (formerly Airmotive Engineering Corp.), replacement parts manufacturer approval (PMA) cylinder assemblies, marketed by Engine Components International Division (hereinafter referred to as ECi), part number (P/N) AEC 631397, with ECi Class 71 or Class 76, serial number (S/N) 1 through S/N 61176, installed.

(d) Unsafe Condition

This AD was prompted by multiple failure reports of cylinder head-to-barrel separations and cracked and leaking aluminum cylinder heads. We are issuing this AD to prevent failure of the cylinder assemblies, which could lead to failure of the engine, in-flight shutdown, and loss of control of the airplane.

(e) Compliance

Comply with this AD within the compliance times specified, unless already done.

- (1) Review the engine maintenance records to determine if any affected cylinder assemblies are installed.
- (2) If you cannot determine based on review of engine maintenance records if any affected cylinder assemblies are installed, comply with paragraph (e)(4) of this AD.
- (3) If you do not have any of the affected ECi cylinder assemblies installed on your engine, no further action is required.
 - (4) Cylinder Identification and Serial Number Location
- (i) Check the cylinder assembly P/N and Class number. The ECi cylinder assembly, P/N AEC 631397, Class 71 or Class 76, is stamped on the bottom flange of the cylinder barrel. Guidance on the P/N and Class number description and location can be found in ECi Service Instruction No. 99-8-1, Revision 9, dated February 23, 2009.
- (ii) If you cannot see the cylinder assembly P/N when the cylinder assembly is installed on the engine, you may use the following alternative method of identification:
 - (A) Remove the cylinder assembly rocker box cover.

- (B) Find the letters ECi, cast into the cylinder head between the valve stems.
- (C) Check the cylinder head casting P/N. Affected cylinder assemblies have the cylinder head casting. P/N AEC 65385, cast into the cylinder head between the valve stems.
- (D) Find the cylinder assembly S/N as specified in paragraphs (e)(4)(iii) or (e)(4)(iv) of this AD, as applicable.
- (iii) For ECi cylinder assemblies, P/N AEC 631397, manufactured through 2008, find the cylinder assembly S/N stamped on the intake port boss two inches down from the top edge of the head.
- (iv) For ECi cylinder assemblies, P/N AEC 631397, manufactured on or after January 1, 2009, find the cylinder assembly S/N stamped just below the top edge of the head on the exhaust port side.

(5) Removal From Service

- (i) For any affected cylinder assembly with 680 or fewer operating hours time-in-service (TIS) since new on the effective date of this AD, remove the cylinder assembly from service before reaching 1,000 operating hours TIS since new.
- (ii) For any affected cylinder assembly with more than 680 operating hours TIS since new and 1,000 or fewer operating hours TIS since new on the effective date of this AD, remove the cylinder assembly from service within the next 320 operating hours TIS or within 1,160 operating hours TIS since new, whichever occurs first.
- (iii) For any affected cylinder assembly with more than 1,000 operating hours TIS since new on the effective date of this AD, remove the cylinder assembly from service within the next 160 operating hours or at next engine overhaul, whichever occurs first.
- (iv) For any affected cylinder assembly that has been overhauled, remove the cylinder assembly from service within the next 80 operating hours TIS after the effective date of this AD.

(f) Installation Prohibitions

After the effective date of this AD:

- (1) Do not repair, or reinstall onto any engine, any cylinder assembly removed per this AD.
- (2) Do not install any affected ECi cylinder assembly that has been overhauled, into any engine.
- (3) Do not install any engine that has one or more affected overhauled ECi cylinder assemblies, onto any aircraft.
- (4) Do not return to service any aircraft that has an engine installed with an ECi cylinder assembly subject to this AD, if the cylinder assembly has 1,000 or more operating hours TIS.

(g) Alternative Methods of Compliance (AMOCs)

The Manager, Delegation Systems Certification Office or Fort Worth Aircraft Certification Office, may approve AMOCs for this AD. Use the procedures found in 14 CFR 39.19 to make your request.

(h) Related Information

- (1) For more information about this AD, contact Jurgen E. Priester, Aerospace Engineer, Delegation Systems Certification Office, FAA, Rotorcraft Directorate, 10101 Hillwood Parkway, Fort Worth, TX 76177; phone: 817-222-5190; fax: 817-222-5785; email: jurgen.e.priester@faa.gov.
- (2) For ECi Service Instruction No. 99-8-1, Revision 9, dated February 23, 2009, which is not incorporated by reference in this AD, contact Continental Motors--San Antonio, 9503 Middlex Drive, San Antonio, TX 78217; phone: 210-820-8101; Internet: http://www.continentalsanantonio.com.
- (3) You may view this service information at the FAA, Engine & Propeller Directorate, 1200 District Avenue, Burlington, MA. For information on the availability of this material at the FAA, call 781-238-7125.

(i) Material Incorporated by Reference

None.