PREPA	RED BY Watter Tomore
CHECK	CED BY ERT
APPRO	OVED BY
DATE	22 April 1977



Report	No.248B1291
SECTION	4
PAGE _	

Model 248B12 Weight Statement (Cessna 172XP on 248B-2440 Floats)

#### AFFIDAVIT

This will certify that Model 248B-2440 Seaplane Floats, together with water rudders and controls and all attachment fittings, struts and wires for installation on Cessna 172XP Airframe, were weighed by the Inspection Department and the complete installation assembly was found to weigh 340 pounds.

The center of gravity of the complete float installation is located at 42.80 inches aft of the airplane datum (front face of fire wall).

_	FI	7	
	Edo	Inspector	

Brad E. Isham P.O. Box 193 Valley Center, Kansas 67147 (316)755-0713 FAA APPROVED
AIRPLANE FLIGHT MANUAL SUPPLEMENT
FOR
CESSNA R172X

BRAD E. ISHAM 210 HORSEPOWER MODIFICATION INSTALLED

## LOG OF REVISIONS

Revisio

Approved: By*	R.G. Puckett	G.M. Baker	Om Bester
Date of Revision	10/17/78	01/28/82	01/28/91
Description	Original	Added Floatplane	Reformatted, added revision page, changed address, added engine model designation, revised signature block
Pages	all	2	1
E			

This modification consists of two supplemental type certificates (STC). STC SE1436CE allows modification of the Edntinental IO-36O-K and IO-36O-KB engine to run at 210 horsepower for takeoff. STC SA1437CE allows use of the modified engine in the Cessma RT72K airplanes.

# ECTION 2. LIMITATIONS:

Engine Model Number: ID-360-KC/SE1436CE or 10-360-KBC/SE1436CE

Engine Operating Limits for takeoff and continuous operations:

[210 BHP]

[Asximum Continuous Power - Full Throttle, 2600 RPM

[195 BHP]

Propeller Blade Angle at 30 inch station:

Landplane - Low 9.7°

Floatplane - Low 9.8°

## Powerplant Markings:

Tachometer:

2200 through 2600 - green arc
2600 through 2800 - yellow arc
2800 - red radial line
Fuel Flow:
3 psi - red radial line
4.5 through 11.5 gal/hr - green arc
18 gal/hr (18.55 psi) - red radial line

## Placards:

Adjacent to existing fuel flow placard:

FUEL FI	COU		
FULL THROTTLE A	ND 28	300	RPIM
S.L 17 GPH		17	PPH CPH
4000 FT 15 GPH	***	15	CPH
8000 FT	-	13	HdD
12000 FT 11 CPH		=	品

FAA Approved Date: October 17, 1978 Revision A: January 28,

Revision A: January 28, 1982 Revision B: January 28, 1991

\* For, Manager, Wichita Aircraft Certification Office Page 2 of 4

Page 3 of 4

SECTION 3. EMERGENCY PROCEDURES - No change

SECTION 4. NORMAL PROCEDURES:

TakeoFF:

Power - Full Throttle and 2800 RPM

SECTION 5. PERFORMANCE:

The performance of this airplane equipped with SPE SE1436CE and SA1437CE is equal to or better than the performance as listed in the original FAA approved Airplana Fight Manual.

SECTION 6. EQUIPMENT LIST STATE Bang

SECTION 7. AIRPLANE & SYSTEMS DESCRIPTIONS - No change

SECTION 8. AIRPLANE HANDLING SERVICE & MAINTENANCE - No CHANGE

FAA Approved
Date: October 17, 1979,
Revision A: January 28,
Revision B: January 28,

Valley Cepter, Kansas 67147 (316)755-0713 FAR APPROVED AIRPLANE SUPPLEMENT

CESSNA R172K

INDEE. ISHAM 210 HORSEPOWER MODIFICATION INSTALLED

Registration Number N736 N.M.

Serial Number R1722659

This supplement must be included in Section 9 of the pilot's operating handbook and FAA approved Airplane Flight Manual dated July 1, 1978 or subsequent reissue date when Brad E. Isham 210 brake horsepower (BHP) engine installation is installed in accordance with SIC's SE1436CE and SA1437CE. The information contained herein supplements or supersedes the basic manual only in those areas listed herein. For limitations, procedures and performance information not contained in this supplement, consult the basic airplane flight manual.

FAR APPLIOVED: AM Ball

Aircraft Certification Office Federal Aviation Administration Wichita, Kansas

Date: October 17, 1978

Revision Date: January 28, 1991

Page 4 of 4

Page 1 of

Department of Transportation — Federal Aviation Administration

## upplemental Type Certificate

STC 5/N: 92-196 DATE: AUG 3 1992

Number

SE1436CE

This certificate, issued to

Brad E. Isham P. O. Box 193

Valley Center, KS 67147

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

therefor as specified herein meets the airworthiness requirements of Fart

13/ the Civil Air

Regulations

Original Product - Type Cartificate Samber

EICE

Make

Continental

Mustel

IO-360-K, -KB

Description of Type Design Change: Modify engine to obtain 210 horsepower 2800 RPM for 5 minutes at takeoff and 195 horsepower 2600 RPM maximum continuous; new designation IO-360-KC/STC SE1436CE, or IO-360-KBC/STC SE1436CE.

DATA REQUIRED:

- 1. A copy of this certificate.
- Isham Aircraft Drawing Number R17201 dated September 29, 1978, or later revisions stamped "FAA Approved."

Limitations and Conditions

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

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, reveked, or a termination date is otherwise established by the Sidministrator of the

Lederal Ameation Administration.

Date of application August 3, 1978

Tale of sommer! October 6, 1978

Date ressand

March 21, 1991

Date unrended

June 4, 1984

By direction of the Administrate

An Lawrence A. Herron, Manager

Wichita Aircraft Certification Office

November 5, 1978

These drawings, manuals, STC's, and other material furnished are for educational purposes only to show typical construction of an aircraft modification. No warranty, either expressed or implied, is made by Isham AirCraft or Brad E. Isham as to the suitability of the plans or any part thereof for the construction on an aircraft. If an individual or group of individuals construct an aircraft modification from these plans or any part thereof, and fly the aircraft, which will be licensed by the F.A.A. or a representative of the F.A.A., they do so at their own risk and without any liability whatsoever on the part of Isham AirCraft or Brad E. Isham, any such liability being hereby expressly waived by the acceptance of these plans by any person and by any person who flies the aircraft. This waiver shall be binding upon the heirs, executors, administrators and assigns of any such person.

The liability statement therefore becomes a part of the purchase agreement and becomes page no. 1A of the STC's for all Isham AirCraft and/or Brad E. Isham modifications, drawings, and approvals. **isham** 

STC S/N: 92-196

#### Department of Transportation — Federal Aviation Administration

## Supplemental Type Certificate

Date: AUG 3 1992

Number SAL437CE

This certificate, issued to

Brad E. Isham P. O. Box 193

Valley Center, KS 67147

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

therefor as specified herein meets the airworthiness requirements of Part 3 of the CIVIL AIT

Regulations.

Original Product - Type Certificate Number

3A17

Make: Cessna

Middle R172K Landplane and Floatplane

Description of Type Design Change. Continental IO-360-K or -KB engine installation rerated to 210 HP (2800 RPM) at takeoff and 195 HP (2600 RPM) maximum continuous. Rerated engine designation IO-360-KC/STC SE1436CE or IO-360-KBC/STC SE1436CE. DATA REQUIRED: A copy of this certificate.
 Isham Aircraft Drawing List R17202 dated September 29, 1978, or later revisions stamped "FAA Approved." 3. Flight Manual Supplement dated October 17, 1978, or later "FAA Approved" revisions required for Serial Number R1722910 and on. Limitations and Conditions

This approval should not be extended to other airplanes of these models on which other previously approved modifications are incorporated, unless it is determined that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of the airplane. (See Continuation Sheet 2 of 2).

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 August 3, 1978

Date of warrance

October 6, 1978

Date reissued:

March 21, 1991

Date amended.

January 28, 1982

By direction of the Manuary 28

A Lawrence A. Herron, Manager Wichita 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.

November 5, 1978

These drawings, manuals, STC's, and other material furnished are for educational purposes only to show typical construction of an aircraft modification. No warranty, either expressed or implied, is made by Isham AirCraft or Brad E. Isham as to the suitability of the plans or any part thereof for the construction on an aircraft. If an individual or group of individuals construct an aircraft modification from these plans or any part thereof, and fly the aircraft, which will be licensed by the F.A.A. or a representative of the F.A.A., they do so at their own risk and without any liability whatsoever on the part of Isham AirCraft or Brad E. Isham, any such liability being hereby expressly waived by the acceptance of these plans by any person and by any person who flies the aircraft. This waiver shall be binding upon the heirs, executors, administrators and assigns of any such person.

The liability statement therefore becomes a part of the purchase agreement and becomes page no. 1A of the STC's for all Isham AirCraft and/or Brad E. Isham modifications, drawings, and approvals.

#### Department of Transportation—Hederal Aviation Administration

## Supplemental Type Certificate

(Continuation Sheet)

Number SA1437CE

Type Certificate Data Sheet 3A17 applies except as follows:

Engine:

Continental IO-360-KC/STC SE1436CE or

IO-360-KBC/STC SE1436CE

Fuel:

100/130 minimum octane aviation gasoline

Engine Limits:

Maximum continuous 2600 RPM 195 HP

Takeoff (5 Min.) 2800 RPM 210 HP

Powerplant:

Tachometer

2800 RPM Red Line

2600-2800 RPM Yellow Arc

2600 RPM Green Arc

Fuel Pressure

Maximum 18.5 PSI Redline

Gage

Propeller and

Propeller Limits:

Landplane (a)

McCauley constant speed propeller, 2A34C203/90DCA-14 diameter: Not over 76 inch, not under 74.5 inch, pitch settings at 30 inch station, low 9.7 +.2 -.0, high 25.0 +.1

Floatplane

McCauley constant speed propeller, 2A34C203/90DCA-10 diameter: Not over 80 inch, not under 78.5 inch, pitch settings at 30 inch station, low 9.8 +.0 -.1, high 25.0 +.1

- (b) Governor McCauley C290D3/T6
- (c) Spinner, Cessna Dwg. 0550328

Floats:

ED0248B-2440 or Pee Kay 2300 or D2300

- END -

#### DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

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

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY
OFFICE IDENTIFICATION

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. MAKE MODEL CESSNA AIRCRAFT SERIAL NO. R172 2659

NAME (As shown on registration certificate) NATIONALITY AND REGISTRATION MARK N736NN ADDRESS (As shown on registration certificate) 2. OWNER 2940 CATNABY WAY Woods + WATER Aviation Anchorage AK 99504 The desplaymention the titled herein compties with 3. FOR FAA USE ONLY the applicable airworthines requirements, and is approved for the above described eineraft, subject to conformity inspection by a person authorized in **FAR 42, section 43.7** UNIT IDENTIFICATION 5. TYPE UNIT MODEL SERIAL NO. REPAIR ATION AIRFRAME POWERPLANT PROPELLER APPLIANCE MANUFACTURER 6. CONFORMITY STATEMENT A. AGENCY'S NAME AND ADDRESS B. KIND OF AGENCY C. CERTIFICATE NO JAMES ROWEN U.S. CERTIFICATED MECHANIC FOREIGN CERTIFICATED MECHANIC PO BOX 973 2105977 CERTIFICATED REPAIR STATION Engle River, AK 99577 MANUFACTURER D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 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. DATE SIGNATURE OF AUTHORIZED INDIVIDUAL CHANC 7. APPROVAL FOR RETURN TO SERVICE MC tor of the Federal Aviation Administration and is APPROVED REJECTED Pursu the A FAA FLT. STANDARDS OTHER (Specify) MANUFACTURER INSPECTION AUTHORIZATION INSPECTOR BY CANADIAN DEPARTMENT FAA DESIGNEE REPAIR STATION OF TRANSPORT INSPECTOR OF AIRCRAFT DATE OF APPROVAL OR CERTIFICATE OR SIGNATURE OF AUTHORIZED INDIVIDUAL REJECTION DESIGNATION NO. 2105977

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 aircra anality and registration mark and date work completed.)

I talled heavy duty Nose gear Strut, Fork, + 6pox6

Nose Tive + wheel Assy. I Aw cossna accessory Kit

AK 182-100 G. Installed seaplane Prop JABAC 203/2022

Removed original Nose Gear + Strut Assy. EAD

Equipment List + wt + Balance will be revised to

Reflect this change, END. AD

+ 6.1 lbs @ -7.0" mom - 43 in.16

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688 2588

ACCESSORY ,

AK182-100G MARCH 27, 1973,

Ale

Title

6:00 × 6 NOSE GEAR CONVERSION (Less Tire and Tube)



MODELS AFFECTED

182

SERIALS AFFECTED

18253599 thru 18255844

NOTE

The following parts are needed to complete the installation but are not included in this kit:

PART NO. NAME . QTY C262023-0102 6:00 × 6 Tube 1 C262003-0203 6:00 × 6 Tire, 4-Ply 1

For speed fairing refer to AK205-41.

For  $8:00 \times 6$  main tires conversion kit refer to AK182-117.

PARTS LIST:

QUANTITY	PART NUMBER	NOMENCLATURE
1	0841200-19	Lock Ring
1	1243021-1	Bearing
1 0023	0842000-30	Fork
1	0842000-44	Scraper Bracket
1	1241156-11	Wheel Assembly (Less Tire & Tube)
1	1442001-1	Axle
2	1442001 - 2	Bucket
2	1442002-1	Axle Spacer
2	AN5-16A	Bolt
2	AN5-17A	Bolt
1	AN5-55	Bolt
4	MS20365-524C	Nut
1	0743600-201	Hub & Barrel Assy
570111(11)=	AN960-516L	Washer
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MS24665-134	Pin - Cotter
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AN310-5	Nut
1	AN6230-6	"O" Ring
1	AN6227-32	"O" Ring
1	AN6246-325/628-329	Back-Up Ring
7 1		Installation Instructions

#### CHANGE IN WEIGHT AND BALANCE:

MODEL 182

WEIGHT INCREASE 6.1 pounds (includes 6:00 × 6 tire and tube)

ARM -7.0 inches

RESULTANT MOMENT -43 pound-inches JA 34C 203/90 DCA -10

INDEX -. 043

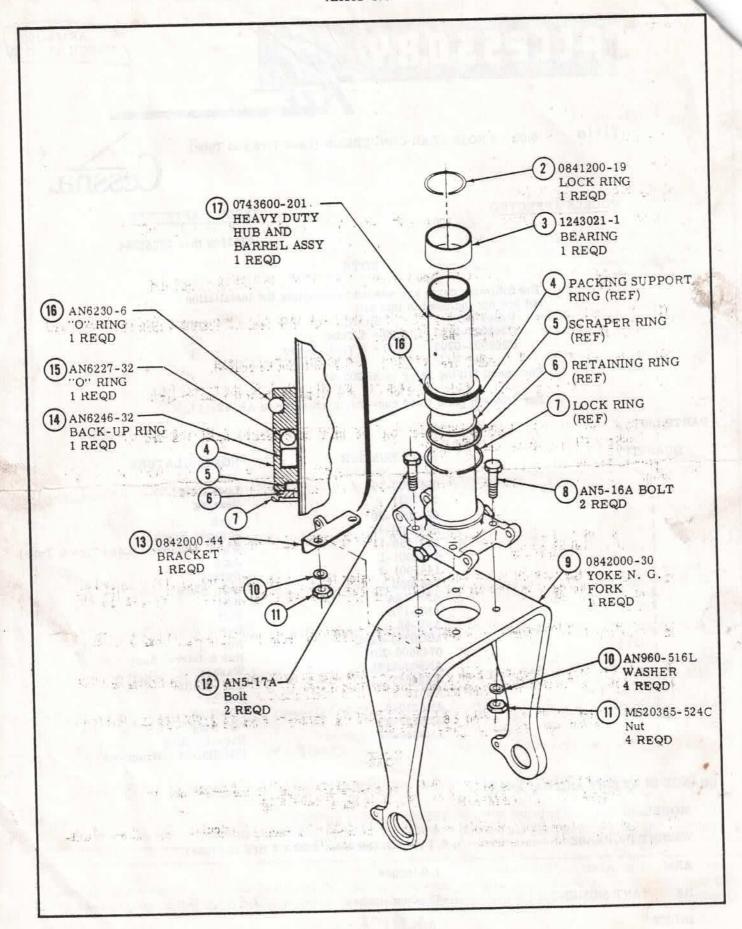


Figure 1. Heavy Duty Nose Wheel, Fork and Barrel Assembly

#### 1. DESCRIPTION OF INSTALLATION.

Installation of this Kit consists of:

- a. Removing nose gear wheel, and fork and barrel assembly.
- b. Assembling and installing heavy duty fork and barrel assembly.
- c. Assembling 6:00 x 6 4-ply tire and wheel on nose gear.
- d. Installation and servicing.

#### 2. INSTALLATION INSTRUCTIONS.

a. (Refer to Figure 1) Remove nose wheel with fork and barrel as one assembly as follows:

#### WARNING

Be sure nose gear strut is deflated completely before disconnecting torque link and removing lock ring.

- (1) Release lock ring (7) through access hole in the strut, then remove complete fork and barrel assembly, with the wheel, from the nose gear.
- (2) Remove nose gear wheel and tire assembly. These will not be reused.
- (3) Remove lock ring (2) and bearing (3), then remove all parts from the barrel (17).
- (4) Clean and inspect all parts removed. Replace worn or defective parts. Discard "O" rings, back-up ring, bearing and lock ring.
- b. (Refer to Figure 1.) Assemble parts removed from barrel on heavy duty hub and barrel (17) as follows: (Refer to Service Manual for important lubrication instructions during assembly.

#### NOTE

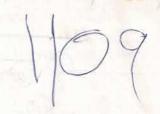
The metering pin and plug assembly are already installed in the heavy duty hub and barrel assembly.

- (1) Assemble the fork (9) to hub and barrel (17) using (8) and (12). The scraper (13) is installed under the heads of the two aft bolts (12). All four bolts are secured with lockwashers (10) and nuts (13).
- (2) Starting with lock ring (7), in reverse order of removal, reinstall all parts on barrel (17).
- c. (Refer to Figure 2.) Assemble 6:00 x 6 4-ply tire and tube to heavy duty wheel and install on nose gear as follows: (Refer to Service Manual for detailed instructions.)
  - (1) Install Part No. S-1402-2 6:00 x 6 tube and Part No. S-1401-3 6:00 x 6 4-ply tire on the wheel. (The tire and tube are not included in the kit.)

#### NOTE

If a speed fairing kit is to be installed, do this before installing the wheel and tire. Different axle bolt and ferrules are used with the speed faring.

d. Install the heavy duty fork and wheel assembly in the nose gear paying particular attention to cleanliness, lubrication and details described in the Service Manual.



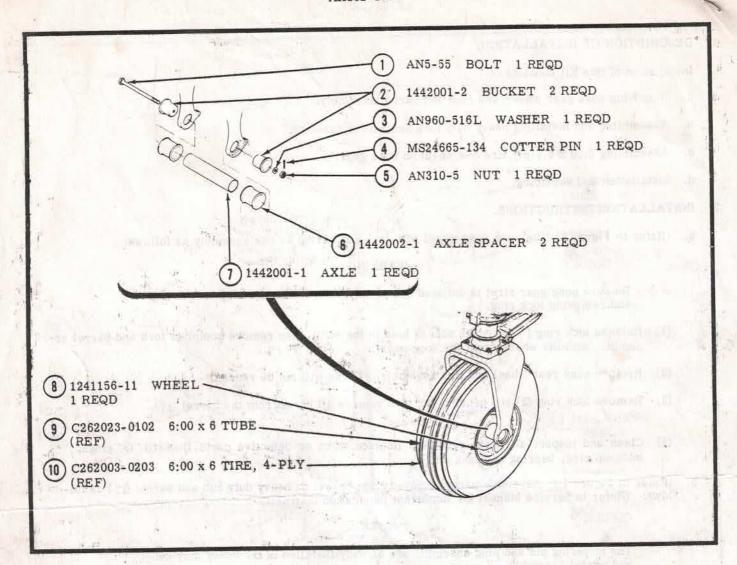


Figure 2. Nose Wheel Installation

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the heavy duty fork and wheel as attacked to be over paying particular assessment that and

DEFARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

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

Form Approved Budget Bureau	No. 04-Ru60.1
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OFFICE IDENTIFICATION

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D. I certify attachmen	that the repair a	indoor alteration ma- been made in accorda turnished herein is to	ince w	with the requirement	nes of Part	43 of the U.S.	described on Federal Aviat	the reve ion Regul	rse or lations
DATE	March 28			SIGNATURE OF	1 m	row	>		
Pursuant to	the authority give	7. A en persons specificd t ral Aviation Administ	helow	the unit identified and is was APPR	d in item 4	was inspected	in the manne	r prescrib	ed by
FAA	FLT STANDARDS	MANUFACTURES	x	INSPECTION AUTHORI	ALCOHOLD VI	OTHER (Specify)		3×27213	
FAA	DESIGNEE	REPAIR STATION		CANADIAN DEPARTME OF TRANSPORT INSPI OF AIRCRAFT					
DATE OF APP	3-28-89	CERTIFICATE OR DES.GNATION NO TA 2096762		SIGNATURE OF	1-	1 roe	iv		

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.

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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

Form Approved Budget Bureau No. 04-Ro60, 1

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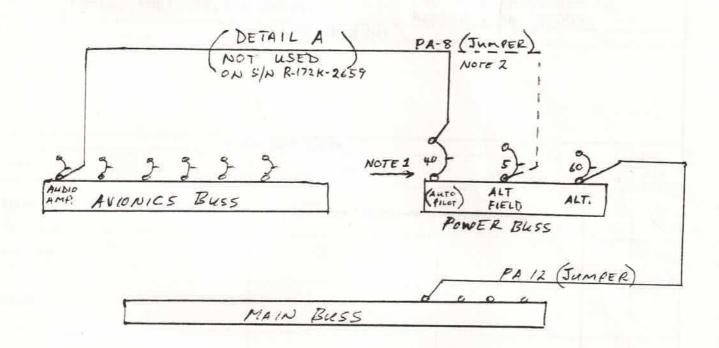
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Weight and balance or operating limitation changes shall be entered in the appropriate discraft reco. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.) USA N736NN

3-28-89

Installed CessnaP/N CM 3589-40 circuit breaker switch into unused Autopilot circuit breaker hole. Rerouted PA-8 Jumper wire as shown in attached drawing. Labelled switch "Avionic MSTR". PA-8 Jumper conforms to AC 43.13-1A, Fig. 11.5 (Wire current carrying capacity). FND



#### REFERENCE:

CESSNA MAINT. MANUAL FOR

R-172 HAWK XP., PAGE 19-5

DRWG # 0570101 & PAGE 19-49

DRWG # 0570311 ITEM (5)

NOTE 2 PA-8 WIRE IN R-172K-2659 IS
A FACTORY #12AWG WIRE, DETAIL
"A" IS NOT INSTALLED.

NOT INSTALLED. INSTALLED CESSNA (1728)

PIN CM3589-40, RADIO MASTER SWITCH IN

THUS POSITION & RE-ATTACHED PA-8 JUMPER.

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

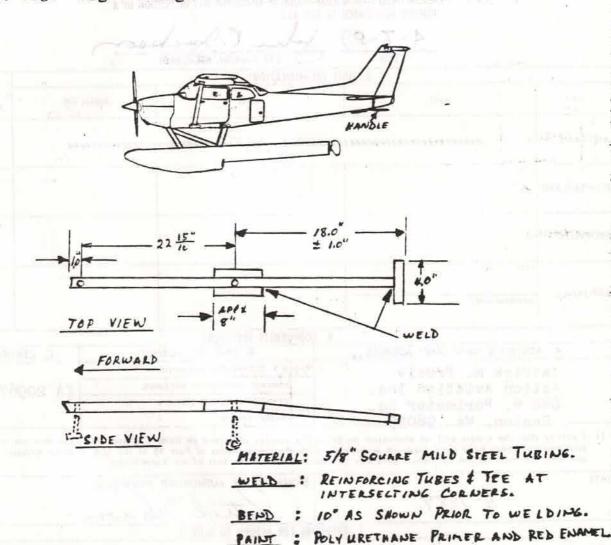
Form Approved Budget Bureau No. 04-R060.1

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	NAME (As show	vn on registration certi	ficate)			(As shown on re	aistration certi	ficate)	
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		4-7-8	9 _	John E.	Sad	pson			
		Date		FAA Inspecto.	WIN PSDO-6	Ni Ti			
		4. U	NIT I	DENTIFICATION		_		5.	TYPE
UNIT		MAKE		MODEL		SERIA	L NO.	REPAIR	ALTER-
AIRFRAME	- 1 477 ****	*************	(As de	escribed in item 1 ob	ove)	***************************************	***		X
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POWERPLANT				.i.			U Q		
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		meter Rd.	1	CERTIFICATED E	EPAIR STATIO	4 5 5	1h 209	0102	
	enton, Wa		5, 5	MANUFACTURER		T <sub>1</sub> 2 1			
D. I certify attachme	that the repair	and or alteration m been made in accord furnished herein is	ance	with the requiremen	its of Part	43 of the U.S.	described or Federal Aviat	the reve	rse or ations
ATE	- 1 1 1 1	THE WASTERNAME		SIGNATURE OF	UTHORIZE	INDIVIDUAL			
	4-7	-89		Pate	rel D	al am	-		
		7.	APPRO	VAL FOR RETURN TO	SERVICE				
Pursuant to	the authority giverator of the Fede	en persons specified eral Aviation Admini	helov	the unit identifies	l in item 4	was inspected REJECTED	in the manne	r prescribe	ed by
FAA	FLT STANDARDS	MANUFACTURES	x	INSPECTION AUTHORIZ		OTHER (Specify)		->	
FAA	DESIGNEE	REPAIR STATION		CANADIAN DEPARTME OF TRANSPORT INSPE OF AIRCRAFT					
ATE OF APP	4-7-69	CERTIFICATE OR DES.GNATION N IA 209676		SIGNATURE OF A	f n	roc	-		

Weight and balance or operating limitation changes shall be entered in the approximte aircraft record. An alteration must be compatible with all previous afterations 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.) N736NN 3-28-89

On Cessna Hawk XP FLOATPLANE, made docking handle TAW drawing below, and attached at tail tie-down ring location. Handle does not interfere with flight controls or affect the flight characteristics of the floatplane. Secured handle using Cessna p/n 0523613-1 Mooring bolt and one AN-4 bolt at Sta. 203. Weight Change 2.0 lbs. (measured) at Sta. 226.0".



OWNER COTY

#### DEPARTMENT OF TRANSPORTATION PEDERAL AVIATION ADMINISTRATION

Form Approved Budget Bureau No. 04-R060.1 POR FAA USE ONLY

		Powerplant, Pr			ice)	O	FFICE IDENTIF	CATION			
INSTRUC	TIONS: Print or t	ype all entries. See on of this form.	FAR 43.	9, FAR 43 App	endix B, and	AC 43.9-1	(or subsequent	revision th	nereof)		
	MAKE Cess	ina	260		MODEL	R172K					
1. AIRCRAFT	SERIAL NO						GISTRATION A	ARK			
	the state of the s	72 2659				N736NN		Pa-1 1			
			icate)		CHARLES OF STREET		registration cert	ificate)			
2. OWNER	4			ng Assoc.Inc 840 W. Perimeter Rd. Renton, Wa. 98055							
	INSTRUCTIONS: Print or type all entries. See FAI for instructions and disposition of this form.  MAKE Cessna  SERIAL NO. R172 2659  NAME (As shown on registration certificate Boeing Employees Flying MAKE  UNIT MAKE  OWERPLANT  ROPELLER  TYPE  MANUFACTURER  MANUFACTURER				Rento	on, Wa.	98055				
		A 111	WIT INSWI	TIFICATION				1 .	TYPE		
UNIT IDE						T	RIAL NO.	-	ALTER-		
TINU	MAKE			MODEL		36	RIAL NO.	REPAIR	ATION		
AIRFRAME	*****	***************************************	(As descr	ibed in item 1 al	bave) eeeee	*********	~~~		ХХ		
POWERPLAI	NT										
PROPELLER	of poor num	-an ilmano									
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				X U.S. CERTIFICA							
	ion Aviatio		0.01	100000000000000000000000000000000000000	IFICATED MEC		- IA 20	96762			
	W. Perimetton, Wa. 98		10	CERTIFICATED REPAIR STATION			FEL	FILE			
D. I cert	ify that the repair	and/or alteration m been made in accor- furnished herein is	true and	th the requirem	best of my	knowledge.	.b. redelar re-	on the reviation Regi	erse or ulations		
CARL MAIL	7-1-89	Municipal Colonia	400000	Sat	TO SEPULLE	nor	sein-				
	A STATE OF THE			AL FOR RETURN		A mare de const	ad in the more	ner prescri	bed by		
Pursuant the Admi	to the authority gi- nistrator of the Fed	ven persons specified eral Aviation Admin	below,	and is XX API	ROVED	JALJECTE		mer presen	Dec 0)		
AL THE STATE OF	FAA PLT. STANDARDS	MANUFACTURER	XX	INSPECTION AUTHO		OTHER (Spec	end contain				
BY	FAA DESIGNEE	REPAIR STATION		CANADIAN DEPART OF TRANSPORT INC OF AIRCRAFT	PECTOR		ADD THE IT	tipi ini			
DATE OF	7-1-89	CERTIFICATE OR DESIGNATION I IA 209676	NO.	SIGNATURE OF	AUTHORIZ Fresh		year				

Weight and balance or operating limitation changes shall be entered in the approximate circular 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.)

Into standard instrument panel location, installed Transcal Blind Encoder Model D120-P2-T IAW Transcal Installation Diagram #E100124 dated 7-21-78 and Cessna ARC Transponder installation manual. Encoder and altimeter tested IAW FAR 91 to 20,000FT.and "matched" by Rainier Instruments, Faa RS#4257, on W.O.1615D. Static system leak test and transponder ramp test performed IAW FAR 91.172 and Part 43 (and App. E c ) by Benair Avionics, FAA RS#61-86, on WO.#/0434. Wiring sized , supported, protected, and secured IAW AC 43.13. Weight and Balance noted in aircraft log book and equipment list. END

#### DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

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

Form Budge	Appn Bur	eau	No.	04	-R060.1
	FOR	F.4			0.11.11

OFFICE IDENTIFICATION

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.

		MAKE CESS	ALA			MODEL	าวเห			
1. AIRC	RAFT			_			AND REGIS	TRATION	ADV	-
		SERIAL NO.	12659			N736		IKAHON M	AKK	
			n on registration certi			Annual Control of the	shown on reg	intration conti	ficate)	
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			4. U	THE TOTAL	NTIFICATION				5.	TYPE
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AIRFRAA	WE	****	***************************************	(As des	cribed in item 1 d	oave) *******	*********	***	X.	
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PROPELL	.ER									
		TYPE				1			1	
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	_			6. 1	CONFORMITY STATE	MENT	ned Alba	WENT O	10.77	
	A. A	GENCY'S NAM	E AND ADDRESS		8. KH	OF AGEN	CY:	C. CE	RTIFICATE	NO.
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						REPAIR STATION		Taggy 5		
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atts	schmer	its hereto have	and/or alteration m been made in accord furnished herein is	innce v	vith the requireme	ents of Part 43	of the U.S.	described o Federal Avia	on the reve	erse or lations
PATE 8	-4	-89	0 100	W 19	SIGNATURE OF	//	INDIVIDUAL	CANA.		
			7.	APPRO	VAL FOR RETURN T	O SERVICE	0		-	
Pursua the Ad	nt to t	the authority giverator of the Federal	ven persons specified eral Aviation Admin	below	the unit identifi		as inspected EJECTED	in the mann	er prescrib	ed by
DE CO	FAA	RT, STANDARDS	MANUFACTURER	X	INSPECTION AUTHOR	10	OTHER (Specify)			
BY		DESIGNEE	REPAIR STATION		CANADIAN DEPARTA OF TRANSPORT INSI OF AMERICAN	The second of th	5. 11 11.40 (10.41)	nim titropi		AL AUT
REJECTIC	MC	ROVAL OR	CERTIFICATE OR DESIGNATION N TA 20967		SIGNATURE OF	1-	Proc	· w	E We	

Weight and balance or operating limitation changes shall be entered in the approximate discraft record. An alteration must be compatible with all previous afterations 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.)

N736NN RITZK

SIN R1722659

8-4-89

- I. REPLACED LH LOWER BELLY SKIN UNDER CARGO/
  BAGGAGE DOOR. FA BRICATED NEW SKIN FROM
  RORY-T3 x.032 ALUMINUM, USING OLD SKIN AS
  TEMPLATE. REINSTALLED USING FACTORY RIVIT PATTERN
  WITH AN 470 AD SERIES RIVITS.
  - 2. ALL WORK DONE IN ACCORDANCE WITH CESSNA REPAIR MANUAL, SEC 18-2, SEC 18-15 AND AC 43.13-10, SEC 3, PAR 96, 8; PAR 97; PAR 99 b, c; PAR 1008.
  - 3. PRIMED WITH ZINC CHROMATE & EPOXY PRIMER AND PRINTED FND

ADDITIONAL SHEETS ARE ATTACHED

LOG BOOK COPY

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

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

Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY

OFFICE IDENTIFICATION

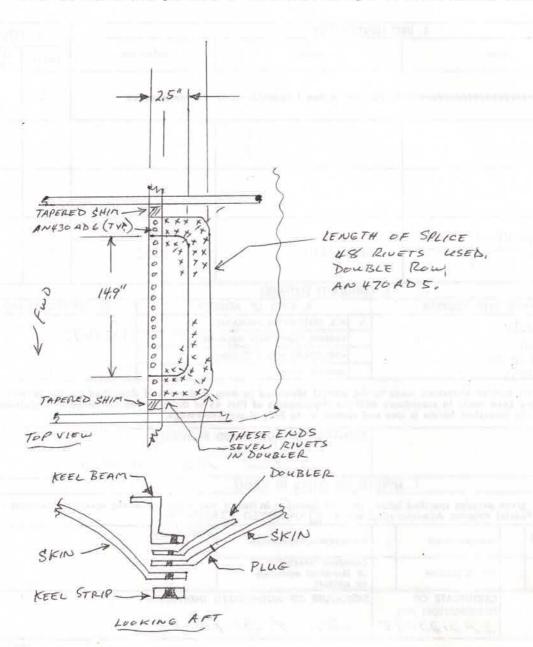
		tion of this form.			MODEL					
AUDEDAGE	CESSNA SERIAL NO.				R172	2K				
1. AIRCRAFT	SERIAL NO. R172-2	659			NATIONALIT N736	Y AND REGIS	TRATION M.	ARK	414 1	
2. OWNER	NAME (As show Boeing	m on registration certify Employees Fly	ring	Assoc., Inc		W Perimet ton, WA 9		ertificate)		
	Alle I	O D C THE KIND	3	. FOR FAA USE OF	ILY .			1	-	
		4. UI	NIT IDE	ENTIFICATION				5. 1	TYPE	
UNIT		MAKE		MODEL		SERIAL	NO.	REPAIR	ALTER-	
AIRFRAME	****	••••••••••	(As des	cribed in item 1 a	bave)		••	1 4		
POWERPLANT										
PROPELLER	•			*	9	- 1.			22	
APPLIANCE	Seaplane MANUFACTURER EDO	Float		248B 2440		0162	1	X		
			6. (	CONFORMITY STATE	MENT		THE WAY			
Α. /	AGENCY'S NAM	E AND ADDRESS		B. KII	ND OF AGEN	ICY	C. CE	TIFICATE	NO.	
Action 840 W	ck M. Proci n Aviation . Perimeter n WA 9805	· Rd		FOREIGN CERT	TED MECHANIC IFICATED MECHAN REPAIR STATION R	NIC .	IA20967	72		
D. I certify	that the repair	and/or alteration m been made in accord furnished herein is	ance w	vith the requireme	ents of Part 43	of the U.S. I	described o Federal Avia	n the reve	erse or lations	
4-18-	90			SIGNATURE OF	AUTHORIZED truck		in			
Pursuant to	the authority giverator of the Fed	7. ven persons specified eral Aviation Admini	below	the unit identifit and is X APP	ed in item 4 w	as inspected i	n the manne	er prescrib	ed by	
1,000,000	FLT. STANDARDS	MANUFACTURER	X	INSPECTION AUTHOR	IZATION	OTHER (Specify)	4	L- US	3	
	DESIGNEE	REPAIR STATION		CANADIAN DEPARTA OF TRANSPORT INSI OF AIRCRAFT						
DATE OF APP REJECTION	18/90	CERTIFICATE OR DESIGNATION NO TA 21220		SIGNATURE OF	AUTHORIZED	-		10.11		

Weight and balance or operating limitation changes shall be entered in the approximate circular 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.)

N736NN 4-18-90 TACH=TTSN=3210.8

On left EDO Float P/N 248B2440, S/N 162, Installed single lap skin patch and filler plug on damaged area near LH keel between STA 5 & 6. Used (as original) 2024T3 Alclad .040" repair pieces, AN 470 AD5 rivets in repair, and AN430 AD 6 rivets in original keel locations, see sketch, Ref. AC43.13-1A, Fig 2.28, Fig 2.24, Fig 2.18, Fig 2.19, and Para 99 & 100d. Work done IAW verbal instructions from EDO Factory Tech. Representative. Repair parts etched, alodined, primed, & installed using 3-M #5200 Marine Sealant.



PEPARTMENT OF TRANSPORATION
PEDERAL AVIATION ADMINISTRATION

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

Porm Approved
Budget Bureau No. 04-R060.1

FOR FAA USE O'NLY

OFFICE DENTFICATION

INSTRUCTIONS: Print or type all entries. for instructions and disposition of this form.	See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1	(or subsequent revision thereof

1 100.00	CESS	VA.		MOI	R172K			
I. MICLANT	SERIAL NO. R172-2659 NAME (As shown on registration certific			NAT	TONALITY AND REG	USTRATION A	MARK	
					N736NN			
2. OWNER	NAME (As she Boein	ng Employees F	Flying As	0.045.0010	Renton, WA 98055			
			3. 1	OR FAA USE ONLY				-
		and produced and p						
		4.	UNIT SBENTI	FICATION			1 5	TYPE
UNIT	A Innil	MAKE	6 (56)	MODEL	SERIA	W MO.	REPAIR	ALTE
AIRFRAME	***		N (As describ	ed in item 1 above)ed	***********	***		
POWERPLANT		(4)					14	
PROPELLER								
APPLIANCE .	Seaplane  AANUACTUEE  EDO	Float	248	B 2440	016	1	х	
	ELO		A COME	ORMITY STATEMENT				
A. A	GENCY'S NAM	AE AND ADDRESS	T	B. KIND OF	AGENCY	T C CER	TIFICATE	40
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	Perimete:			CERTIFICATED REPAIR ST	LATION	1		
	, WA 980			MANUFACTURES	· P Ven-L			
D. I certify t attachmen and that t	hat the repair to hereto have he information	and/or alteration of been made in accor- furnished herein is	made to the dance with a true and co	unit(s) identified in the requirements of l street to the best of	item 4 above and Part 43 of the U.S. my knowledge.	described or Federal Avia	the reversion Regul	se or stions
ATE	-14-90			Satural		· ·		
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ATE OF APPRO	14-90	CERTIFICATE OR DESIGNATION N IA 209676	10. SIGN	atted	() -	13.0		
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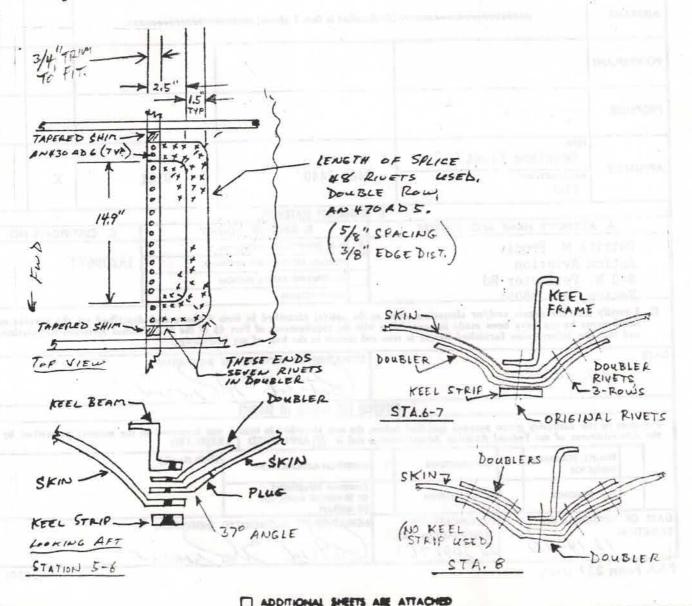
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Weight and balance or operating limitation changes shall be entered in the approximate discraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

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

N736NN 12-14-90 TACH=TTSN = 3361.1

On right EDO Float P/N 248B2440, S/N 161, installed single lap skin patch and filler plug on damaged area near LH keel between STA 5 & 6. Used (as original) 2024-T3 Alclad .040" repair pieces, AN 470 AD5 rivets in repair and AN430 AD 6 rivets in original keel locations, see sketch. Installed external skin doubler at keel area between STA 6 & 7 using AN470 AD-5 rivets. Patched two torn rivet holes in skin at STA 8 using external & internal skin doubler plates, utilizing original rivet pattern and additional AN470 AD-5 rivets as needed. Ref. AC 43.13-1A, Fig 2.28, Fig 2.24, Fig 2.18, Fig 2.19 and Para 99 & 100d. Work done IAW verbal instructions from EDO Factory Tech. Representative. Repair parts etched, alodined, primed, & installed using 3-M #5200 Marine Sealant.





#### **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 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions

	1.8	Make				Model	January Burgary			37.00
1. Aircr	-44	CESSI	NA							
i. Airci	alt	Serial No.	rezerili dili.	455F	DINE SAME					
3	elis Er	Name (As show	n on registration certi	ficate	1	Address /A	s shown on regi	stration c	ertificate)	erestivitus
2. Own	er	BOEING I	EMPLOYEES FI	YII	NG ASSOC	840	W, PERIME	ETER I	RD	
		ii ii				RENT	ON, WA 9	8055		
					3. For FAA Use O	nly				
						v.				
					4. Unit Identificati	on	-		5. Type	
Un	iit	N	1ake		Model		Serial No	<u>.</u>	Repair	Alteration
AIRFRAI	ME		(A	s desc	cribed in Item 1 abo	ve)				xx
POWER	PLANT	-1							٤	
PROPEL	LER					*				
		Туре								¥.
APPLIAN	NCE	Manufacturer								
					6. Conformity State	ment				
A. Age	ncy's N	ame and Address	1		B. Kind of Agenc			C. Cert	ificate No.	
					X U.S. Certificate	d Mechanic				
		. Peters			Foreign Certifi	2 5E 2	ic	3955	27265	
		cHugh Ave			Certificated Re		î .	1		
D. I c	ertify th	n made in accord	/or alteration made to ance with the require d correct to the best	ments	nit(s) identified in ite of Part 43 of the U	m 4 above ar	nd described on t viation Regulati	the reverse ons and t	e or attachme hat the inform	nts hereto nation
Date 3 –	23-9	3			Signature of Auth	orized Indiv	dual .		1	
				7. Ap	proval for Return T	o Service				
Pursu	uant to	the authority giv r of the Federal A	en persons specified Aviation Administration	belo n and	w, the unit identified is xxx APPROVE		was inspected i	n the ma	nner prescrib	ed by the
ву	FAA Fit, Standards   Manufacturer		х	Inspection Authoriz	zation	Other (Specify)	70			
	FAA	Designee	Repair Station	×	Person Approved b Canada Airworthin			II		
Data of	Approv	al or Rejection	Certificate or Designation No.		Signature of Auth	prizedJndivi	dual			

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.

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

Form Approved OMB No. 2120-0020

For FAA Use Only

Office Identification

		Make	William III			IN	Model				
		CESSNA						R172K			
I. Aircr	aft	Serial No. 1722659		Tyrr			Vationali N 7 3 6 N	ty and Registratio	n Mark	14	STEEL STEEL
		Name (As shows	n on registration ce	rtificate	e)	) Address (As shown on registration of			ertificate)	+	
2. Owne	er	BOEING E	MPLOYEES F	LYII	NG AS	NG ASSOC 840 W PERIMETER RD RENTON WA 98055					
	-				3. For	r FAA Use Only	у				
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					4. Uni	it Identification	n			5. Type	
Un	it	М	ake			Model		Serial No	).	Repair	Alteration
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PPLIAN	ICE	Type Manufacturer			*						
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. Agei	icy 3 iv	anie and Address			50	J.S. Certificated	Mechanic		C. Cert	ilicate No.	
		Peters		ï	-	oreign Certificat	DA ESTABLISHED			can angena	
		Hugh Ave			C	Certificated Repa	ir Station		39552	7265	
Enu	mc T s	w WA 980	022	:		Manufacturer					
ha	ve bee	n made in accorda	or alteration made ance with the requi d correct to the bes	rement	s of Part	t 43 of the U.S.	4 above a Federal	and described on Aviation Regulati	the reverse ons and t	e or attachme hat the inforr	ents hereto nation
Date 3 – 2	3-93	1			Signa	ature of Author	Red Indi	Vidual ,		1	1
				7. A	pproval	for Return To	Service				
Pursu Admir	ant to	the authority give or of the Federal A	en persons specifi viation Administra	ed belo	ow, the to	unit identified APPROVED	in item 4	was inspected in EJECTED	n the ma	nner prescrit	ed by the
зү	360 E 0 E E	Flt. Standards ector	Manufacturer	х	Inspec	ction Authorizat	tion	Other (Specify)			
		Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group						
	Approv 3 – 9 3	al or Rejection	Certificate or Designation No. 395527265	5	Signa	ture of Author	ized Indi	vidual			

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.

(If more s) Modif dated accor	ied Con l Octobe dance w per 6, 1	ed, attach additional sheets tinental IO-36 r 6, 1978. In ith Isham Draw 978. All part	0-K engine in ac stalled Isham A: ing List Number s are FAA/PMA ap	ccordance w ircraft kit R17202 and oproved. No	mark and date work completed.) ith STC SE1436CE p/n R17200 in STC SA1437CE date weight and balance ***END*******	ed ce
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		in million	☐ Additional Sheets Are Att	ached		

#### DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

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

Form Approved Budget Bureau No. 04-R060.1

FOR FAA USE ONLY

OFFICE IDENTIFICATION

		IONS: Print or ty ons and dispositio	pe all entries. See F. n of this form.	AR 43	3.9,	FAR 43 Appe	ndix B, and	AC 43.9-1 (or	subsequent	revision th	nereof)
1 AUDO	DACT	MAKE Cessi	na		Ī		MODEL	R172			
1. AIRC	KAFI	SERIAL NO.	R1722659		NATIONALITY AND REGISTRATION AUS N736NN					ARK	
2. OWN	IER		on registration certifica L'anik Aviation	20			2840	As shown on regi Pelican Di Drage, Ak.	· .	icate)	
the a appro- to con FAR 4	pplicab ved for informity 43, seet	le airworthiness rethe above describe inspection by a plan 43.2  Signature	of FAA Inspector			R FAA USE ON	LY				
		ARL-	500-63 4. UNIT	IDEN	TIF	CATION				5.	ГҮРЕ
ואט	IT	M	AKE			MODEL		SERIAL	но.	REPAIR	ALTER- ATION
AIRFRA	AIRFRAME AND (As			s desci	ribed	d in item 1 ab	ove) ******	***********	**		Х
POWER	PLANT										
PROPELL	LER							Xo			
APPLIAN	NCE	MANUFACTURER				8 - 1		J. Trian			
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		Ak. 9956	7			CERTIFICATED R	EPAIR STATION		51234	6966 I	A
OII	ugiai	c, AR. 5550	·		7/4	MANUFACTURER					
att	achmei	nts hereto have be	nd/or alteration mad een made in accordan urnished herein is tro	ice wi	th t	he requirement	nts of Part 4	i3 of the U.S. I	described or ederal Avias	the revision Regu	erse or lations
DATE 2	9 Jui	ne 1984		a v	0	Sarold	1/2	MINDIVIDUAL			
Pursua the Ac	ant to	the authority give	n persons specified bal Aviation Administr	elow,	the	unit identifie	d in item 4	was inspected i REJECTED	n the manne	r prescril	oed by
ву	1000	FLT. STANDARDS	MANUFACTURER	INSPECTION AUTHORIZATION X OTHER (Specify)				1 3 11			
51	FAA	DESIGNEE	REPAIR STATION		OF I	ADIAN DEPARTM TRANSPORT INSP AIRCRAFT	ECTOR	AND THE OWNER			
DATE C	ON	roval or 5 June 1984	CERTIFICATE OR DESIGNATION NO. 512346966 IA		SIGN	Carolal	AUTHORIZED	D'ALL	obicina or	woll n	

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 air-
	craft nationality a	nd registration mark	and date work co	mpleted.)	

- AIRCRAFT WEIGHT INCREASED 2 LBS. 10 OZ., AIRCRAFT WEIGHT AND BAL./EQUIPMENT LIST CHANGED.
- 2. AIRCRAFT TIRES CHANGED ON AIRCRAFT INVENTORY.
- 3. INSTALLED 8.50 X 6 GOODYEAR TIRES ON MAIN WHEELS.

changed equipment list in anings encount wit 5.26 and +300 mon at 60" datum line.

ADDITIONAL SHEETS ARE ATTACHED



### CONFORMITY CERTIFICATE REPAIR OR MODIFICATION

#### CERTIFICAT DE CONFORMITÉ RÉPARATION OU MODIFICATION

#### INSTRUCTIONS

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FOR INSTRUCTION, SEE AIRWORTHINESS MANUAL ADVISORY 575.219.	DOUBLES INCORMATIONS	CONCLUTED I A CIDCUIT AIDE	CONCLUTATIVE ALLMANUEL DE	NAVIGABILITE 575 219
FOR INSTRUCTION, SEE AIRWORLHINESS MANUAL ADVISORY 5/5,219.	FOUR LES INFORMATIONS.	CONSULTED IN CHICOTAILE	COMPONE IN THE WO MINISOFF DE	, INTERNATIONALITY
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PRINT OH TYPE - DACTYLOG	HAPHIER OU ECHINE EN LETTRES MOULLES			
1. AIRCRAFT	MAKE - CONSTRUCTEUR		MODEL - MODÈLE	
AÈRONEF	SERIAL NO Nº DE SÈRIE		REGISTRATION MARKS - MARQUES D'IMMATRICULATION	
2. OWNER PROPRIÉTAIRE	REEEA.		ADDRESS - ADRESSE	
3. UNIT IDENTIFICATION IDENTITÉ DE L'UNITÉ	MODEL - MODELE  2 440	MANUFACTURER - CON	COLD.	4. TYPE OF WORK - GENRE DE TRAVAIL  MODIFICATION REPAIR RÉPARATION
* USE A SEPARATE FORM FO	OR EACH UNIT BEING CERTIFIED - UTILISER UN FORMUL	AIRE SÉPARÉ POUR CHAC	DUE UNITÉ CERTFIÉE	1
SC A SC ANAL COMM	I CERTIFY THAT THE WORK DETAILED ON THE REVERSE SIDE OF THIS SHEET HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH APPROVED DATA SPECIFIED THEREIN.  JE CERTIFIE QUE LE TRAVAIL DÉCRIT AU VERSO DE CE FORMULAIRE A ÉTÉ EFFECTUÉ SELON LES MÉTHODES HOMOLOGUÉES QUI Y SONT MENTIONNÉES.			
5. CONFORMITY STATEMENT DECLARATION DE CONFORMITÉ	ADDRESS - ADRESSE  SIGNATURE (AUTHORIZED PERSON - PERSONNE AUTORISÉE)  AME LICENCE OR AMO APPROVAL NO. N° DE LICENCE DU TEA OU D'APPROBATION DE L'AMO  ADDRESS - ADRESSE  SEAFLIGHT INDUSTRIES INC. RR 4, S-16, C-29 VERNON, B.C. VIT 6L7			
barrer la				
1111111	THE MAINTENANCE REQUIRED TO INSTALL THIS COMPONENT ON THE AIRCRAFT STATED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS.  LA MAINTENANCE REQUISE POUR INSTALLER LE COMPOSANT SUR L'AÉRONEF MENTIONÉ CI-HAUT À ÉTÉ EXÉCUTÉE CONFORMÉMENT AUX NORMES DE NAVIGABILITÉ APPLICABLES.			
6. CERTIFICATION	SIGNATURE AME LICENCE OR AMO APPROVAL NO. DATE  (AUTHORIZED PERSONNE AUTORISÉE) N° DE LICENCE DU TEA OU D'APPROBATION DE L'AMO			
	ADDRESS - ADRESSE		Separate.	CATEGORY - CATEGORIE
	CERTIFICATION OF AERONAUTICAL PRODUCTS B FOREIGN CUSTOMERS.	EING RETURNED TO	CERTIFICATION DE PRO CLIENTS D'ORIGINE ÉTRAI	DUITS AÉRONAUTIQUES RETOURNÉS AUX NGÉRE.
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7. FOR DEPARTMENT OF THANSPORT OR APPROVED MAINTENANCE				
ORGANIZATION USE  RÉSERVÉ AU MINISTÈRE DES TRANSPORTS OU AUX ORGANISMES DE MAINTENANCE				
AGRÉÉS	A STORY OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN C		AND THE PARTY OF T	
	AIRWORTHINESS OR AUTHORIZED INSPECTOR REGION DISTRICT OR ORGANIZATION STAMP / DATE - ESTAMPILLE / DATE INSPECTEUR AUTORISÉ OU DE NAVIGABILITÉ RÉGION DISTRICT OU ORGANISATION			

WEIGHT AND BALANCE OR OPERATING LIMITATION CHANGES SHALL BE ENTERED IN THE APPROPRIATE AIRCRAFT RECORDS. A MODIFICATION MUST BE COMPATIBLE TO ALL PREVIOUSLY INCORPORATED MODIFICATIONS TO ASSURE CONTINUED CONFORMITY WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS.

LES CHANGEMENTS DE MASSE ET CENTRAGE OU DE LIMITES D'UTILISATION DOIVE ÉTRE TRANSCRITS DANS LES DOSSIERS APPROPRIÉS DE L'AÉRONEF. UNE MODIFICATI DOIT ÉTRE COMPATIBLE AVEC LES MODIFICATIONS PRÉCÉDEMMENT INCORPORÉES PO ASSURER LA CONFORMITÉ AUX NORMES DE NAVIGABILITÉ APPLICABLES.

8.	DESCRIPTION OF WORK ACCOMPLISHED
-	(IF MORE SPACE IS REQUIRED ATTACH ADDITIONAL SHEETS - IDENTIFY WITH AIRCRAFT,
	NATIONALITY AND REGISTRATION MARKS AND DATE WORK COMPLETED.)

DESCRIPTION DES TRAVAUX EXÉCUTÉS

(AU BESOIN, UTILISER DES FEUILLES SUPPLÉMENTAIRES - INDIQUER SUR CHAC FEUILLE, LES MARQUES D'IMMATRICULATION DE L'AÉRONEF ET LA DATE À LAQUELLE L TRAVAUX ONT ÉTÉ EFFECTUÉS.)

- All repairs performed on this float have been accomplished in accordance to Sea. flight Industries Incs. Structural Repair Manual (S. R.M.) D.O.T. approval#P-RDA-93-270-D - The fud. L+RH side skins, and the planing bottom strin were replaced as per S.R.M. Part II section 1.3 - The fund dech skin from station # 1 to station # 2 was repaired as Part I section lol - The keel bar, and both LARH sister keel shoes were replaced as per S.R.M. Part I section 1 - A spray rail was installed as pel S. R.M Part II section 1.1 The float was water tested for leaks

T AND BALANCE

OAD ANALYSIS
VARGES ÉLECTRIQUES

INDEPENDENT CONTROL CHECK
VÉRIFICATION INDÉPENDANTE DES COMMANDES

TEST FLIGHT
ESSAI EN VOL

LOG BOOK ENTRIES INSCRIPTIONS AU CARNET D'AÉRONEF

ADDITIONAL SHEETS ARE ATTACHED FEUILLES SUPPLÉMENTAIRES JOINTES

## REPAIR OR MODIFICATION

#### CONFORMITY CERTIFICATE CERTIFICAT DE CONFORMITÉ **RÉPARATION OU MODIFICATION**

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FOR INSTRUCTION SEE AL	WORTHINESS MANUAL ADVISORY 575.219 POUR LES INFOR	MATIONS CONSTRUCTOR	eper Meserval		
	GRAPHIER OU ÉCRIRE EN LETTRES MOULÉES	MATIONS, CONSULTER LA	CINCULAINE CONSULTATI	VE AU MANUEL DE NAVIGA	ABILITE 5/5.219.
1. AIRCRAFT	MAKE - CONSTRUCTEUR	MOD	EL - MODÈLE		
AERONEF	SERIAL NO Nº DE SÉRIE	REGI	ISTRATION MARKS - MARC	UES D'IMMATRICULATION	
2. OWNER	NAME - NOM	ADDF	RESS - ADRESSE		
PROPRIÉTAIRE	B.E.F.F.A.				
3. UNIT IDENTIFICATION IDENTITÉ DE L'UNITÉ	Float	E DO (	CO1D-	4. TYPE OF WORK - GEN	RE DE TRAVAIL
iscitting se a sittle	2440	TIME NO IT DE OCINE	161	MODIFICATION	REPARATION
* USE A SEPARATE FORM	FOR EACH UNIT BEING CERTIFIED - UTILISER UN FORMULAIRE	SÉPARÉ POUR CHAQUE U			
7014	I CERTIFY THAT THE WORK DETAILED ON THE REVERS SHEET HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH A SPECIFIED THEREIN.	APPROVED DATA È	E CERTIFIE QUE LE TRAVA TÉ EFFECTUÉ SELON LE IENTIONNÉES.		
5. CONFORMITY STATEMENT DECLARATION	SIGNATURE (AUTHORIZED PERSON - PERSONNE AUTORISEE)		CE OR AMO APPROVAL NO. TEA OU D'APPROBATION DE L'A	- Fel	2. 21/97 DATE
DE CONFORMITÉ	ADDRESS - ADRESSE SEAFLIGHT INDUST RR 4, S-16, C-			CATEGORY - CATEGORIE	
	VERNON, B. VIT 6L7				
	THE MAINTENANCE REQUIRED TO INSTALL THIS COMP AIRCRAFT STATED ABOVE HAS BEEN PERFORMED IN ACC THE APPLICABLE STANDARDS OF AIRWORTHINESS.	CORDANCE WITH	A MAINTENANCE REQUIS AÉRONEF MENTIONÉ CI-H IORMES DE NAVIGABILITÉ	AUT A ÉTÉ EXÉCUTÉE CO	
6. CERTIFICATION	SIGNATURE (AUTHORIZED PERSON - PERSONNE AUTORISÉE)		CE OR AMO APPROVAL NO. TEA OU D'APPROBATION DE L'A	AMO	DATE
	ADDRESS - ADRESSE			CATEGORY - CATÉGORIE	
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k k	CERTIFICATION OF AERONAUTICAL PRODUCTS BEING FOREIGN CUSTOMERS.		CERTIFICATION DE PROC LIENTS D'ORIGINE ÉTRAN		RETOURNÉS AUX
7.			7		
FOR DEPARTMENT OF TRANSPORT OR APPROVED MAINTENANCE ORGANIZATION USE					
RÉSERVÉ AU MINISTÈRE DES TRANSPORTS OU					
AUX ORGANISMES DE MAINTENANCE AGRÉÉS	A STATE OF THE SAME OF THE SAM				
	AIRWORTHINESS OR AUTHORIZED INSPECTOR INSPECTEUR AUTORISE OU DE NAVIGABILITE		ISTRICT OF ORGANIZATION	STAMP/D	ATE - ESTAMPILLE / DATE

WEIGHT AND BALANCE OR OPERATING LIMITATION CHANGES SHALL BE ENTERED IN THE APPROPRIATE AIRCRAFT RECORDS. A MODIFICATION MUST BE COMPATIBLE TO ALL PREVIOUSLY INCORPORATED MODIFICATIONS TO ASSURE CONTINUED CONFORMITY WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS.

LES CHANGEMENTS DE MASSE ET CENTRAGE OU DE LIMITES D'UTILISATION DOIVE ÉTRE TRANSCRITS DANS LES DOSSIERS APPROPRIÉS DE L'AÉRONEF, UNE MODIFICAT DOIT ÉTRE COMPATIBLE AVEC LES MODIFICATIONS PRÉCÉDEMMENT INCORPORÉES PO ASSURER LA CONFORMITÉ AUX NORMES DE NAVIGABILITÉ APPLICABLES.

8. DESCRIPTION OF WORK ACCOMPLISHED	DESCRIPTION DES TRAVAUX EXÉCUTÉS
(IF MORE SPACE IS REQUIRED ATTACH ADDITIONAL SHEETS - IDENTIFY WITH AIRCRAFT, NATIONALITY AND REGISTRATION MARKS AND DATE WORK COMPLETED.)	(AU BESOIN, UTILISER DES FEUILLES SUPPLÉMENTAIRES - INDIQUER SUR CH FEUILLE, LES MARQUES D'IMMATRICULATION DE L'AÉRONEF ET LA DATE À LAQUEL TRAVAIN CALT ÉTÉ ESECCTUES :
The second secon	TRAVAUX ONT ETÉ EFFECTUES.)
A A	0/
- All repairs pertormed	on this float have
- All repairs performed been accomplished flight Industries I Manaal (S. R.M.) D.O.T 270-D	in accordance to Sea
flight Industries I	ncs. Structural hepai
Manaal (S. R.M.) D.O.T	: approval # P-RDA-93
- The fud. L+RH sic	de skins, and the
planing bottom skin	were replaced as De
- The fud. L+RH sic planing bottom shin S.R.M. Part II secti	0~ 1.3
- The fund. dech stri	a from station # 1 to
(L+) # 2 c co. c	`````
station # 2 was repo	rived as per S.R.M.
Part I section 1.1	
-The keel bar, and	both La AH sister
Keal share ware non	1 1 1
keel shoes were rep	raced us bei sikiti.
Part II section 1	
- A = 0.00	10 2 1. 0 = 0 . 1 = 0 1
- A spray rail was i Part II section 1.1	orstalled as her 2. K.
- The float was wat	ter tested for lealing
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AND BALANCE CENTRAGE INDEPENDENT CONTROL CHECK
VÉRIFICATION INDÉPENDANTE DES COMMANDES

LOG BOOK ENTRIES
INSCRIPTIONS AU CARNET D'AÉRONEF

DAD ANALYSIS
ARGES ÉLECTRIQUES

TEST FLIGHT ESSAI EN VOL ADDITIONAL SHEETS ARE ATTACHED FEUILLES SUPPLÉMENTAIRES JOINTES

Transports Canada Aviation

## REPAIR OR MODIFICATION

#### CONFORMITY CERTIFICATE CERTIFICAT DE CONFORMITÉ **RÉPARATION OU MODIFICATION**

INSTRUCTIONS FOR INSTRUCTION, SEE AIRWORTHINESS MANUAL ADVISORY 575.219. - POUR LES INFORMATIONS, CONSULTER LA CIRCULAIRE CONSULTATIVE AU MANUEL DE NAVIGABILITÉ 575.219.

	RAPHIER OU ECRIRE EN LETTRES MOULEES			
1, AIRCRAFT	MAKE - CONSTRUCTEUR		MODEL - MODÈLE	
AÉRONEF	SERIAL NO № DE SÉRIE		REGISTRATION MARKS - MARQ	UES D'IMMATRICULATION
2. OWNER PROPRIÉTAIRE	NAME - NOM		ADDRESS - ADRESSE	
3. UNIT IDENTIFICATION IDENTITÉ DE L'UNITÉ	MODEL - MODELE 2440	MANUFACTURER - CONS	COND.	4. TYPE OF WORK - GENRE DE TRAVAIL  MODIFICATION REPAIR RÉPARATION
* USE A SEPARATE FORM FO	OR EACH UNIT BEING CERTIFIED - UTILISER UN FORMUL	AIRE SÉPARÉ POUR CHAQI	UE UNITÉ CERTFIÉE	
5. CONFORMITY STATEMENT DÉCLARATION DE CONFORMITÉ	I CERTIFY THAT THE WORK DETAILED ON THE REV SHEET HAS BEEN ACCOMPLISHED IN ACCORDANCE WE SPECIFIED THEREIN.  SIGNATURE  (AUTHORIZED PERSON - PERSONNE AUTORISEE)  ADDRESS - ADRESSE  SEAFLIGHT INDUST RR 4, S-16, C-VERNON, B.0 VIT 6L7	ERSE SIDE OF THIS ITH APPROVED DATA  AME LI N° DE LICENCE RIES INC. 29	JE CERTIFIE QUE LE TRAVA	MO  CATEGORY - CATÉGORIE
6. CERTIFICATION	THE MAINTENANCE REQUIRED TO INSTALL THIS CLAIRCRAFT STATED ABOVE HAS BEEN PERFORMED IN THE APPLICABLE STANDARDS OF AIRWORTHINESS.  SIGNATURE (AUTHORIZED PERSON - PERSONNE AUTORISÉE)  ADDRESS - ADRESSE	ACCORDANCE WITH		DATE
7. FOR DEPARTMENT OF TRANSPORT OR APPROVED MAINTENANCE ORGANIZATION USE RÉSERVÉ AU MINISTÈRE DES TRANSPORTS OU AUX ORGANISMES DE MAINTENANCE AGRÉÉS	CERTIFICATION OF AERONAUTICAL PRODUCTS BEFOREIGN CUSTOMERS.		CLIENTS D'ORIGINE ÉTRANG	
-	AIRWORTHINESS OR AUTHORIZED INSPECTOR INSPECTEUR AUTORISÉ OU DE NAVIGABILITÉ	REGI	ON DISTRICT OR ORGANIZATION ON DISTRICT OU ORGANISATION	STAMP / DATE - ESTAMPILLE / DATE

WEIGHT AND BALANCE OR OPERATING LIMITATION CHANGES SHALL BE ENTERED IN THE APPROPRIATE AIRCRAFT RECORDS. A MODIFICATION MUST BE COMPATIBLE TO ALL PREVIOUSLY INCORPORATED MODIFICATIONS TO ASSURE CONTINUED CONFORMITY WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS.

LES CHANGEMENTS DE MASSE ET CENTRAGE OU DE LIMITES D'UTILISATION DOIVENT ÉTRE TRANSCRITS DANS LES DOSSIERS APPROPRIÉS DE L'AÉRONEF. UNE MODIFICATION DOIT ÉTRE COMPATIBLE AVEC LES MODIFICATIONS PRÉCÉDEMMENT INCORPORÉES POUR ASSURER LA CONFORMITÉ AUX NORMES DE NAVIGABILITÉ APPLICABLES.

LOG BOOK ENTRIES

INSCRIPTIONS AU CARNET D'AÉRONEF

ADDITIONAL SHEETS ARE ATTACHED

FEUILLES SUPPLÉMENTAIRES JOINTES

8. DESCRIPTION OF WORK ACCOMPLISHED (IF MORE SPACE IS REQUIRED ATTACH ADDITIONAL SHEETS - IDENTIFY WITH AIRCRAFT, NATIONALITY AND REGISTRATION MARKS AND DATE WORK COMPLETED.)	DESCRIPTION DES TRAVAUX EXÉCUTÉS  (AU BESOIN, UTILISER DES FEUILLES SUPPLÉMENTAIRES - INDIQUER SUR CHAOL FEUILLE, LES MARQUES D'IMMATRICULATION DE L'AÉRONEF ET LA DATE À LAQUELLE LE TRAVAUX ONT ÉTÉ EFFECTUÉS.)
- All repails performed been accomplished Seaflight Industrie Repair Mannal (S.R H P-RDA-93-270-D	d on this float have
been accomplished	in accordance to
Seaflight Industrie	s Incs. Structural
# P-RDA-93-270-D	(.Tt.) 13.0.1 approvat
- The planing botto as per S. R. M. Part II	section 1.3
- The keel bar, and I	
Shoes were replaced	
I section 1.1	
- Aspray rail was in Part II section (.)	stalled as per S. R.M.
-The float was wate	is tested for leaks.
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INDEPENDENT CONTROL CHECK

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VÉRIFICATION INDÉPENDANTE DES COMMANDES

ND BALANCE

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Transports Canada

Aviation

## CONFORMITY CERTIFICATI REPAIR OR MODIFICATION

#### CERTIFICAT DE CONFORMITÉ RÉPARATION OU MODIFICATION

INSTRUCTIONS					
	WORTHINESS MANUAL ADVISORY 575.219 POUR LES IN	NFORMATIONS, CONSUL	TER LA CIRCULAIRE CONSUL	TATIVE AU MANUEL DE N	AVIGABILITÉ 575.219.
PRINT OR TYPE - DACTYLO	GRAPHIER OU ÉCRIRE EN LETTRES MOULÉES				
1.	MAKE - CONSTRUCTEUR		MODEL - MODELE		
AIRCRAFT					
AÉRONEF	SERIAL NO Nº DE SERIE		REGISTRATION MARKS - M	MARQUES D'IMMATRICULA	ITION
2.	NAME - NOM	74	ADDRESS - ADRESSE		
OWNER					
PROPRIÉTAIRE	REFEA				
* "	UNIT - UNITE	MANUFACTURER - CO	NSTRUCTEUR	4 TYPE OF WORK	GENRE DE TRAVAIL
3. UNIT IDENTIFICATION	FI +	EDE	1 ( 010	4. TIPE OF WORK	GENNE DE MAYAIE
IDENTITE DE L'UNITÉ	MODEL - MODELE	SERIAL NO Nº DE SE	COTO:		REPAIR
DENTITE DE CONTE	O IIII	OLINE NO. N. DE DE	1/2	MODIFICA	NON E REPARATION
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* USE A SEPARATE FORM	FOR EACH UNIT BEING CERTIFIED - UTILISER UN FORMUL	CHARLES TO WINDOWS TO SERVE			
	I CERTIFY THAT THE WORK DETAILED ON THE REV SHEET HAS BEEN ACCOMPLISHED IN ACCORDANCE W			RAVAIL DECRIT AU VERS N LES MÉTHODES HOMO	
	SPECIFIED THEREIN.	VIII AFFROVED DATA	MENTIONNÉES.	V LES METHODES HOME	ALOGOEES QUI I SONT
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5. CONFORMITY	Lyraue	14	-3-91	a s	7eb-21/97
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DE CONFORMITE	ADDRESS - ADRESSE SEAFLIGHT INDUST			CATEGORY - CATEGOR	IIE.
	RR 4, S-16, C VERNON, B				
	VIT6L7				
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1 7 57	THE APPLICABLE STANDARDS OF AIRWORTHINESS.		NORMES DE NAVIGABIL	LITÉ APPLICABLES.	
	AND RESIDENCE OF THE PARTY OF T				
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	ADDRESS - ADRESSE			CATEGORY - CATEGOR	RIE
	4 h v - J / - Y 15 - 7				
	CERTIFICATION OF AERONAUTICAL PRODUCTS B	BEING RETURNED TO	CERTIFICATION DE F	PRODUITS AERONAUTIC	UES RETOURNES AUX
	FOREIGN CUSTOMERS.		CLIENTS D'ORIGINE ET	RANGERE.	3
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7.					
FOR DEPARTMENT					
OF TRANSPORT OR APPROVED					
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	200				
	AIRWORTHINESS OR AUTHORIZED INSPECTOR		EGION DISTRICT OR ORGANIZATIO		MP / DATE - ESTAMPILLE / DATE
	INSPECTEUR AUTORISÉ OU DE NAVIGABILITÉ	A	EGION DISTRICT DU ORGANISATIO	N N	

LES CHANGEMENTS DE MASSE ET CENTRAGE OU DE LIMITES D'UTILISATION DOIVENT ÉTRE TRANSCRITS DANS LES DOSSIERS APPROPRIÉS DE L'AÉRONEF. UNE MODIFICATION DOIT ÊTRE COMPATIBLE AVEC LES MODIFICATIONS PRÉCÉDEMMENT INCORPORÉES POUR ASSURER LA CONFORMITÉ AUX NORMES DE NAVIGABILITÉ APPLICABLES.

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8. DESCRIPTION OF WORK ACCOMPLISHED  (IF MORE SPACE IS REQUIRED ATTACH ADDITIONAL SHEETS - IDENTIFY WITH AIRCRAFT, NATIONALITY AND REGISTRATION MARKS AND DATE WORK COMPLETED.)	DESCRIPTION DES TRAVAUX EXÉCUTÉS (AU BESOIN, UTILISER DES FEUILLES SUPPLÉMENTAIRES - INDIQUER SUR CHAQUELLE, LES MARQUES D'IMMATRICULATION DE L'AÉRONEF ET LA DATE À LAQUELLE LI TRAVAUX ONT ÉTÉ EFFECTUÉS.)
- All repairs pertormo	d on this float have
- All repairs performod been accomplished Seaflight Industrie Repair Mannal (S.R	in accordance to
Seaflight Industrie	s Incs. Structural
Repair Manual (S.R	.M.) D.O. Tapploval
# P- KDA-55-270-D	
- The planing both	om skin was replaced
The planing bottoms per S. R. K. Part I	section 1.3
-The Keel bar, and l	noth LARH sisted heel
Shoes were replaced	as per S. A.M. Part
I section 1.1	
- Aspray vail was in	stalled as Not SAM
Part II section (.1	
-The float was wate	er tested for leaks

BALANCE

INDEPENDENT CONTROL CHECK VÉRIFICATION INDÉPENDANTE DES COMMANDES LOG BOOK ENTRIES
INSCRIPTIONS AU CARNET D'AÉRONEF

NALYSIS S ÉLECTRIQUES TEST FLIGHT ESSAI EN VOL

ADDITIONAL SHEETS ARE ATTACHED FEUILLES SUPPLÉMENTAIRES JOINTES

# US Department of Transportation

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

orm Approved OMB No. 2120-0020					
OMB	No.	212	0-00	)20	

For FAA Use Only

Office Identification

Federal Aviation Administration

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 civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

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V 03	PSW	CESSNI	,			R172	K				
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BY _		Fit. Standards ector	Manufacturer	х	Inspection Author	ization	Other (Specify)		-		
J,	FAA	Designee	Repair Station		Person Approved Canada Airworthi	by Transport ness Group				)	
Date of 4-12-		al or Rejection	Certificate or Designation No. 569539512		Signature of Auth NICHOLAS E.			2 1	1-	,	

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 Accomplision (If more space is required, attach	hed additional sheets. I	dentify with aircraft nationality and re	egistration mark and date w	ork completed.)	
		WS USING PROCEDURES IN CE AC 43.13-1B CHAP.4 SEC.4(ME			RVICE
SUPPORT HORIZONTAL IN F	IXTURE AND REA	MOVE RH AND LH LEADING EDG	GES AND SKINS.		
REPLACE THE FOLLOWING INFORWARD SPAR ASSEMBLY CESSNA SERVICE BULLETIN RH TIP RIB P/N 0532001-78 RH AND LH OUTBOARD RIBS LH RIB P/N 0532001-14 ELEVATOR STOP BRACKET INFORWARD RIBS RESERVATOR RIBS RIBS RIBS RIBS RIBS RIBS RIBS RIB	P/N 0532001-98 #SEB94-8. P/N 0532001-77	INCORPORATING 0531037-1 SF	PAR REINFORCEMENT		
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U 160988					
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		and after Committee and and an account of			
		Additional Sheets Are At	tached		



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

Form Approved
OMB No. 2120-0020

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Office Identification

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for each	such violation (Section	n 901 Federal Aviatio	n Act	of 19	958).	Transfer I					
	Make Cessna				R172K						
1. Aircraft	Serial No. R17226	Serial No. R1722659				Nationality and Registration Mark N736NN					
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PROPELLER	3										
APPLIANCE	Type Manufacturer										
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la	coma, Wa. 984	08				ted Repair Station 4			72843209		
have	ify that the repair and/ been made in accord	ance with the requirer	ments	of P	art 43 of the	tem 4 above a					
	shed herein is true an	d correct to the best of	JI HILY P		55.1	Hereberg Land	and the second				
March 24,1998				Signature of Authorized Individual  Michael D. Cold							
			7. Ap	prov	al for Return	To Service					
	t to the authority giv trator of the Federal A		n and		unit identi	fied in item 4 VED □ R	was inspected EJECTED	in the mai	nner prescrib	ed by the	
	FAA Flt. Standards Inspector	Manufacturer	X	Insp	ection Autho	rization	Other (Specify	)			
	FAA Designee	Repair Station		Pers	on Approved ada Airworth	by Transport iness Group					
	proval or Rejection March 25, 1998	Certificate or Designation 336760657		Sign	hature of Au	horized Ind	vidual				

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.

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

N736NN

CESSNA R172K

Inspection discovered crack growing from horizontal stabilizer front spar center lighten hole. Removed horizontal stabilizer from aircraft and stopped drilled two cracks growing from lighting hole. Installed doubler inside center spar between left and right inboard ribs using .041 2024-T3 3.500 x 8.500. Installed "C" channel inside doubler and front spar picking up left and right inboard ribs using .032 2024-T3 3.500 x 9.250 x 1.00. Installed new Cessna stabilizer center skin part # 0532001-23. Repair treated and primed.

All rivet type an with AC 43.13-1A cl Cessna Structural re	d spacing same as original. Work ponange 3, Chapter 2, section 3, paragrair Instructions.	erformed in accordance graph 96,99,100,101 and
Weight and bala	nce change negligible.	
	END	
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☐ Additional Sheets Are Attached

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D. I certify	that the repair	and/or alteration med been made in accordan furnished herein is un	ce with the minuiceme	ses of Part 4	3 of the U.S.	described o Federal Avia	a the rev	erse or lations
DATE	5-9-91		SIGNATURE OF	id 20	///	ew	7 - 1 1	
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the Adminis	trator of the Fed	en persons specified be	stice and is XI APP	ROVED				
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Weight and balance or operating limitation changes shall be entered in the approximate discraft 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.)

N736NN 5-9-91

TACH 3375.0

FOUND HORIZONTAL STABILIZER REPAIRED YEARS

PREVIOUS (OWNER ESTIMATES 1988) BY PERSONS UNKNOWN, WITH

NO FAA-337 FORM FILED. INSPECTED REPAIR, FOUND LEFT

\$\frac{1}{2} RIGHT LEADING EDGE SKINS HAVE BEEN REPLACED BY

SAME CESSNA PIN 0532001-76 (L&R) SKINS, RE-USING

ORIGINAL RIVET LOCATIONS AND AN 470-AD 4 RIVETS

AND CHERRY MAX CR3243-4 AND CR3243-5 RIVETS

WHERE NEEDED. REPAIR APPEARS TO BE DONE IN

ACCORDANCE WITH AC 43.13-1A AND CESSNA R-172H

MAINTENANCE MANUAL STRUCTURAL REPAIR INSTRUCTIONS.

END,





US Department of Transportation Federal Aviation Administration

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

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NSTRUCTIONS: Prin	it or type all	entries. Se	e FAR	43.9, FAR	43	Appendix	B. an	d AC	43.9-1	(or	subsequent	revision	thereof)	for	instruction	s and
disposition of this form	<ol> <li>This report</li> </ol>	is required	by law	(49 U.S.C.	142	1). Failure	e to re	port ca	n result	t in a	civil penali	v not to	exceed	\$1.00	00 for each	such
iolation (Section 901)	Federal Aviati	on Act of 1	958).			C. S. C. S. Contractor					Editor.					

violation (	Section	901 Federal Aviatio	on Act of 1958).								
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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.

#### 8. Description of Work Accomplished

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

The following structural components were repaired in accordance with Cessna Repair Manual and 43:13 - 1B - Change Three, Chapter 4, Section 4.

#### CESSNA 172 STANDARD RANGE LH & RH WINGS

#### LH WING:

- Top outboard skins replaced. Part numbers 0523511-3 and 0523511-12.
- Inboard flap track replaced with used serviceable part.
  Part number 0523231-13.
- Lower tank support skin reinforced at the fuel drain hole with a hole doubler of .040 2024-T3 aluminum.

#### RH WING:

- Top outboard skins replaced. Part numbers 0523511-4 and 0523511-12.
- Aux. spar -- outboard most upper flange area reinforced with a corner angle doubler of .032 2024-T3 aluminum.
- Lower tank support skin reinforced at fuel drain hole with a hole doubler of .040 2024-T3 aluminum.

Items above not reinstalled on the aircraft.

----- End -----
Installer must fill out blocks 1 and 2 on reverse side of this form.

Installer signature: Kuntbourel Kurt Boswel

Installer license number: AP536740657

Installer statement of reinstallation of above repaired components: See Arcraft 1095

# US Department of Transportation

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<ol> <li>Description of Work Accomplished (If more space is required, attach additional</li> </ol>	sheets. Identify with	aircraft nationality and reg	istration mark and date work	completed.)	119114
REPLACE DAMAGED UPPER AND LOW CESSNA MODEL R172 SERIES 1977-1 SEC.4(METAL REPAIR PROCEDURES)	980 SERVICE MAN				4
SUPPORT ELEVATOR IN FIXTURE AN	D REMOVE SKINS	I.A.W. AC 43.13-1B 4-	52b.		NUI SU II S
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RIVET ASSEMBLY I.A.W. AC 43.13-1B	4-57a.b.c.d.f.		Wanted made		
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for ea	ch suc	h violation (Section	on 901 Federal Aviatio	n Act	of 19	958).					
		Make					Model				
1. Aircr	aft	Cessi	na				R	172K			
I. All'Ci	ait	Serial No.	2659					and Registration 736NN	n Mark		
			n on registration certi	ficate)				s shown on regi	stration c	ertificate)	
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Date 1	May 9	9 <sup>th</sup> , 2001			Sig	nature of Aut	horized Indivi	dual			
				7. App	rova	al for Return	To Service				
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ву		Fit. Standards pector	Manufacturer	х	Insp	ection Author	ization	Other (Specify)			,
		Designee	Repair Station		Can	on Approved ada Airworthi	néss Group				
		yal or Rejection 9 <sup>th</sup> , 2001	Certificate or Designation No. 536760657		Sign	hajure of Aut	horized Individ	dual			

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

N736NN Cessna R172K

Installed Soros, Inc. pilot and co-pilot overhead fresh air valves, per Soros, Inc.

Equipment list rev	rised, Aircraft v	weight and b END	oalance negli	gible.	*********	
					PK	

#### United States Of America

### Bepartment of Transportation - Nederal Abiation Administration

## Supplemental Type Certificate

Number SA8150SW

This Cortificate issued to

SOROS, Inc., a Texas Corporation 117 Pawnee Trail Lake Kiowa, TX 76240-9420

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.

Cessna

Model:

\* See attached Approved Model List SI 100, Revision A, dated 8/9/96 or later FAA approved Revision.

Discription of Type Design Change: Installation of VENTUBE pilot/co-pilot overhead fresh air valves in accordance with Soros, Inc., Drawing List 100, Revision N, dated November 1, 1993, or later FAA approved revision.

Limitations and Conditions:
Compatibility of this modification with previously installed equipment must be determined by installer.

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 upplication: February 07, 1991

Date of issuance: December 11, 1991

Date reissued: 11/22/95; 11/13/00

Date amended: 11/3/93; 8/9/96 Rev. 3

By streetien of the Administrator

(Signature)
Cox, Manager

Special Sertification Office,

Southwest Region

(Title)



## 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 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 civil penalty not to exceed \$1,000

	Make			Model			PART	
A 1	Cessna			R172H				
1. Aircra	Serial No. R1722659	طلور ومساور			y and Registration Ma IN	ark		
	Name (As shown	on registration certificate)		Address	(As shown on registr	ation certific	ate)	
. Owner		oyee Flying Assoc.			West Perimeter I on, Wa. 98055	Rd.		
_	he teenment data identified t	nerein has been found to com	niv was	or FAA Use Only				
0	DDNCBDIC BIIWOITHIUSS FOUL	ircraft, subject to conformity	repection		DF.	ECEIV	ED	
SEA	TILE PAUD-AN		4. (	Init Identification			5. Type	
Uni	it 1	Make		Model	Serial No	. L. 78	Repair	Alteration
IRFRAM	1E -	(As	describe	d in Item 1 above)				( ) ( )
OWERF	PLANT							
ROPELI	LER							
	Type Float							
APPLIAN	Manufacturer EDO		248B	-2440	RT 161 LT 163	2	Х	X
			6. Co	nformity Statement				
A. Agenc	y's Name and Address		В.	Kind of Agency		C. Certific		
	viation, Inc.		X	U.S. Certificated Mechanic	<u> </u>	5367606	57	
	Boswell ast Perimeter Rd.		-	Foreign Certificated Mecha	anic	-		
	n, Wa. 98055		-	Certificated Repair Station  Manufacturer		-		
D In	ve been made in accordar	or alteration made to the un nee with the requirements of correct to the best of my kn	of Part 43	tified in item 4 above and of the U.S. Federal Aviation	described on the re-	erse or atta at the inform	chments her	eto
hav			Cin	nature of Authorized Indivi	dual			
hav fun			Old	/ .			1	54
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hav fun Date	13, 2002	7		al for Return To Service		rt Boswel		
hav fun Date Nov.	ant to the authority given p	7 ersons specified below, thation Administration and is	Approv	ntified in item 4 was inspec	ted in the manner pre	escribed by	the	
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hav furn Date Nov.	ant to the authority given p strator of the Federal Avia FAA Flt. Standards	ersons specified below, thation Administration and is	Approve unit ide  X Ins Per Ca	ntified in item 4 was inspective APPROVED	cled in the manner pre REJECTED Other (Specify)	escribed by	the	
Pursua Admini	ant to the authority given p strator of the Federal Avia FAA Fit. Standards Inspector	ersons specified below, thation Administration and is  Manufacturer	Approve unit ide  X Ins Per Ca	ntified in item 4 was inspective APPROVED	cled in the manner pre REJECTED Other (Specify)	escribed by	the	

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.

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

N736NN

Cessna R172K

Fabricated and installed new larger EDO 2440 float water rudder steering blades. Water rudder blades fabricated larger in length than original, measuring 18" by 12" which is 3" longer overall. Used EDO model 3000 float blade assembly for pattern. Blades were made using 2024 T3 .125 clad aluminum same as original material. Water rudders etched, alodined and primed using epoxy primer.

Repaired left front float serial number 161, on outboard skin as follows: Installed new Edo skin as replacement part. Installed an additional seem an station 2 frame assembly. Repairs were then etched alodined and primed using epoxy primer.

then etched alodined and primed using epoxy primer. All work done per AC43.13-1B Chapter 4 Section 4 metal repair procedures. -- END Additional Sheets Are Attached

6
U.S. Department of Transportation
Federal Aviation

## 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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instru	uctions and d	isposition of th	is for	ntries. See FAR 43 rm. This report is n (Section 901 Fe	required	by la	w (49 U.S.C. 14	AC 43.9 (21). Fai	-1 (or sui	bsequent re port can res	vision th sult in a	ereof) for civil penalty r	ot to
1. Aircraft Cessna Serial No. R1722659				Model C-172XP									
					tut it lionaen it	Nationali N736	ity and Reg	istration Mark	Few 1		NA E PORTY		
Owner     Name (As shown on registration certificate)     Boeing Employees Flying Associate					ssociat	Address (As shown on registration certificate)							
					3.	For	r FAA Use Only	1 11-11		OPION A	i mitomo	from next So	atribus in the
				enezedeneni (* 2004)	ka a ku - i	- y	ranget britt	postari Sirik	(Imensis)	·			
				4. Uni	it Identifi	cati	on					5. T	уре
Unit Make					Model		5	Serial No.		Repair	Alteration		
AIRF	RAME	(As describ				bed	in item 1 above	9)	~~~~		0		
POW	ERPLANT								11				
PRO	PELLER												
APPL	IANCE	Type Float Manufacturer EDO Corp.				248B-2440 162			162	х			
					6. C	onfe	ormity Stateme	nt					
A. A	gency's Nam	e and Address	8			T	B. Kind of Ag	ency			C. Ce	rtificate No.	
Seaflight industries Inc. 6340 Tronson Road, Vernon, B.C. Canada, V1H 1N5					U.S. Certificated Mechanic Foreign Certificated Mechanic Certificated Repair Station Manufacturer				143	-91			
h	ave been ma	ide in accorda	nce v	eration made to the with the requireme act to the best of m	nts of Pa	rt 43	of the U.S. Fed	oove and leral Avia	describe	ed on the re- ulations and	verse or	attachments e information	hereto
Date Aug	ust 25, 20	03			9.50	gnat .Cr	ture of Authorize aig	d Individ	lual	7	8	and	
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BY	L_I Inspec			Manufacturer			Inspection A			Other (Sp	pecify)		
	FAA of Approval o			Repair Station  Certificate or Des 143-91	ignation I	No.	Person Appove Canada Airwort Signature of A			al S	X		1
Augi	u3t 2J, 2UC			1-13-81		17/1/	D.Craig		-			rai	

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.

		Accomplished ed. attach additional she	eets. Identify with aircraft nationality	and registration mark and ds	sta work compl	Intend 1
- All repairs (S.R.M.) Tra - The lower - The bowpl	performed or ansport Cana flanges on bu ate was repa	n this float have been a da approval # P-RDA- ulkhead # 4, and 5 wer ired as per S.R.M. Par	accomplished in accordance to Se 93-270-D. re repaired as per S.R.M. part 2 se	aflight Industries Incs. Structection 1-1.11.	ctural Repair N	
<ul> <li>The transo</li> <li>The fwd. rr</li> <li>The aft bot</li> <li>The float w</li> <li>The float w</li> <li>The float w</li> </ul>	om was repair nain keelson v ttom skins, the vas paint strip vas water test vas primed ar	red as per S.R.M. Part was repaired at Bulkhe e planing bottom skin, pped, decorroded, etch ted.	2 section 1-1.10. ead # 6 as per S.R.M. Part 2 section and both fwd. bottom skins L&RH ned and aladined as per S.R.M. Part R.M. Part 1 section 8.	were replaced as per S.R.I	444 340 4404	ion 1-1.3.
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## MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

	Approved B No. 2120-0020
	For FAA Use Only
Offic	e Identification

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 civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

violation (Sec	tion 901 Federal A	viation Act of 1958).							
	Make				Model				
	CESSNA				R172K				
1. Aircraft	Serial No.				Nationality a	nd Registration Mark			
	R1722659				N736NN	int and	The contract	at a th	a Men se
		n on registration certific				s shown on registration	on certificate	9)	
2. Owner	Boeing Emp	loyee Flying Asso	ciatio	n		t Perimeter Rd.			
	y supper	10	HÔ I			Wa. 98055			
				3.	For FAA Use Only				
The	FEB 0 3	described aircraft, sub	found oject to	to cor confo		ess requirements and FAR 43.7   MAST  spector, NM-FSDO-0		approved for	
				4.	nit Identification	dua a		5. Type	
Unit	Make				Model	Serial N	No.	Repair	Alteration
AIRFRAME	(As de				ed in item 1 above)			ATM.	$\overline{\mathbf{V}}$
POWERPLANT						W. Mary Mark			
PROPELLER						THE REST		ontig of	
APPLIANCE	Туре	n is so you still	in G			-12-			
71112/1102	Manufacturer		Tim Heym		1-1				
	100				nformity Statement				
A. Agency's Nar	me and Address	2009-1-0-	914	B. F	Kind of Agency		C. Certi	ficate No.	
Ace Aviatio	n. Inc.				U.S. Certificated Mecha				
Kurt Boswell					Foreign Certificated Me		AP53	7585165	
289 Perimeter				님	Certificated Repair Stat	tion	-		
Renton, Wash	CONTRACTOR OF THE PARTY OF THE			Ш	Manufacturer				
have been ma	ade in accordance	teration made to the a with the requirement rrect to the best of my	ts of Pa	art 43	fied in item 4 above and design of the U.S. Federal Aviation	cribed on the revers Regulations and the	e or attach at the infor	ments hereto mation	
Date				_	nature of Authorized Indiv				
January 17, 20	005			Pa	ul Miller Jane	Mile			
				-	val for Return to Service				1/1
Pursuant to the a Administrator of the	uthority given persone he Federal Aviation	ons specified below, the Administration and is		dentific	ed in item 4 was inspected in t APPROVED RE	the manner prescribe JECTED	d by the		
BY FAA F	Fit. Standards ctor	Manufacturer	X		pection Authorized	Other (Specify)			
FAA I	Designee	Repair Station			son Approved by Transport nada Airworthiness Group				
Date of Approval o		Certificate or Desigantion No.		Sign	nature of Authorized Individua	e mil	2		
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Wieght and balance or operating limitatio changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with applicable airworthiness requirements.

Description of work performed     (If more space is required, attach additional s	heets. Identify with aircraft nationality and registrat	ion mark and date work completed)	
Registration No: N736NN	Model: Cessna R172K	Serial Number: 1722659	
Mounted external pulley on the b through cabin floor using original     Mounted pulley on cabin floor 1"	right of centerline at Sta. 43.5. assembly 1" right of fuselage centerline	enterline at Sta. 43.5. Retract cable	e routed
Instructions for Continued Airwort	hiness (ICA)		
Introduction: See (1) above     Desicription: Water rudder retract     Control, operation information: Control.		FEB 0 3 2005	
6. Toubleshooting information: N/A	t cable, pulleys and retract handle at roove screws attaching bracket to floor st		
Special instructions: N/A     Application of protective treatments	ente: N/A		
11. Data: N/A 12. Special Tools: N/A	onto. Text		
<ul><li>13. Commuter catogory: N/A</li><li>14. Recommended overhaul period</li><li>15. Airworthiness limitation section:</li></ul>	N/A		
<ol> <li>Revision: To revise this ICA a le 337, and revised ICA.</li> </ol>	etter must be submitted to the local FS	DO with a copy of the revised FAA	form
	END	applicable airworthiness requirements and is here only on the above decribed aircraft, subjection	by approved for us
		FEB 8-3 2005 FAA Inspector NM-	My Jum
		0 471	
	want on technical are which a nation of sufficient		

Additional Sheets Are Attached

### U.S. 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 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 civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

violat	tion (Sect	tion 901 Federal	Aviation Act of 1958).								
		Make					Model				
d Alman		CESSNA				The street	R172K				
1. Aircr	art	Serial No.	mine d'allo, est d'		Time?		Nationality a	Intrace Individual  Interest (As shown on registration certificate)  O W Perimeter RD  Interest (As shown on registration certificate)  O W Perimeter RD  Interest (As shown on registration certificate)  O W Perimeter RD  Interest (As shown on registration certificate)  Interest (As	w Irrnayi		
	127	R1722659					N736NN				
2. Owne	er		n on registration certifologies Flying Ass		on		840 W P	erimeter RD		13	nugil h
					3. F	For FAA Use C	nly				
	The use	technical data id only on the above	entified herein has bee e described aircraft, su	en found ibject to	to con confor	mply with applicable in the manner of the ma	le airworthin a person ir	ness requirements and n FAR 43.7	d is hereby	approved for	
		N/A				N/A					
		DAT	E					spector, NM-FSDO-0	1		
				,	4. (	Unit Identificat	tion			5. Type	
Unit		N	/lake			Model		Serial N	10.	Repair	Alteration
AIRFRAM	1E	(As de			escrib	ed in item 1 abo	ove)			$ \mathbf{V} $	
POWERP	PLANT										
PROPELL	LER										
		Туре									
APPLIAN	CE	Manufacturer									
				)	6. Co	nformity State	ment				
A. Agency	y's Nam	e and Address			B. K	ind of Agency			C. Certif	icate No.	
Ace Av	iation	n, Inc.			U.S. Certificated Mechanic						
Kurt Bos	well							AP281	815859		
289 Perir		The state of the s				Certificated Repair Station					
Renton,	vvasnir	ngton 98055				Manufacturer					
have be	een mad	le in accordance	teration made to the with the requirement rect to the best of m	ts of Pa	art 43 o edge.	of the U.S. Feder	al Aviation	Regulations and tha	e or attachr it the inforn	nents hereto nation	
Date						nature of Author	1 Table 1	idual			
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					-	al for Return t					
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ву	FAA Fit	. Standards or	Manufacturer	X	200	ection Authorized		Other (Specify)			
	FAA De	esignee	Repair Station			on Approved by Ta ada Airworthiness					
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Wieght and balance or operating limitatio changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with applicable airworthiness requirements.

3. Description (If more spa	of work performed	rmed I, attach additional sheet	s. Identify with airc	raft nationality and registratio	on mark and date work o	completed)	ngranaliniani,
N736N	NN	Cessna R172K					
point a 19.5 in AC43.	nd upward ches high, 13-1B cha	2 inches. Installed Cessna part numb oter 4 section 4 and	new stringer e per: 0553006-3 d Cessna Servi		new section of fire	wall 14 inches w All work done I/A	ide and VW
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US Department
of Transportation
Federal Aviation
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#### MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020 2/28/2011	Electronic Tracking Number
	For FAA Use Only

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. N736NN R1722659 1. Aircraft Make Model Series R172K Cessna Name (As shown on registration certificate) Address (As shown on registration certificate) Address 301 W Jefferson BLVD, STE 200 2. Owner Fort Wayne State IN City Hanger One Zip 46802-3043 Country United States 3. For FAA Use Only 4. Type 5. Unit Identification Repair Alteration Unit Make Model Serial No. (As described in Item 1 above) AIRFRAME V POWERPLANT PROPELLER Type APPLIANCE Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency Joel Newton U. S. Certificated Mechanic Manufacturer Address 1520 S Burdick St Foreign Certificated Mechanic C. Certificate No. Certificated Repair Station State Michigan City Kalamazoo 574306216A&P Country United States Zip 49001 Certificated Maintenance Organization 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. Signature/Date of Authorized Individual bel an h Extended range fuel per 14 CFR Part 43 Joel Newton 04/09/2019 App. B 7. Approval for Return to Service 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 ✓ Approved Rejected Persons Approved by Canadian FAA Flt. Standards Maintenance Organization Manufacturer Department of Transport Inspector BY Other (Specify) Inspection Authorization FAA Designee Repair Station Soel an ton Signature/Date of Authorized Individual Certificate or Designation No. Joel Newton 04/09/2019 574306216IA

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.

		aft nationality and registration ma			
		N736NN		04/09/2019	
		Nationality and Registra		Date	
ound no entry in the air	nter floor skin PN 0511479-2 a 5 craft records.between sta 56.70	and sta 65.33			
) Fabricated patch from vets.	n 2024 T3 .051 Aluminum shee	t 7 1/2" X 11 2/5" single la	p joint, usir	ng 2117-T4 (AD	) 5/32
.) AC43.13 Chapter 4,s 2	section 4-57, para c,e figure 4-6,	table 4-10, 4-5, and cessn	a structura	l repair manual	para 1
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	A 1962 900 A				

## Isham Aircraft

POST OFFICE BOX 193 VALLEY CENTER, KANSAS 67147 316-755-0713

MODIFICATION OF CESSNA R172K AIRPLANES AND
CONTINENTAL IO-360-K OR IO-360-KB ENGINES
IN ACCORDANCE WITH
ISHAM AIRCRAFT DRAWINGS

COPYRIGHT BRAD E. ISHAM 1991

#### ISHAM AIRCRAFT

AIRCRAFT MODIFICATION SPECIALISTS

316 • 755-0713

THIS MANUAL IS PROPERTY OF ISHAM AIRCRAFT AND HAS BEEN FURNISHED FOR A PERIOD NOT TO EXCEED 30 DAYS FROM DATE OF RECEIPT.

ALL DRAWINGS AND INFORMATION CONTAINED IN THIS MANUAL, STC'S AND FLIGHT MANUAL SUPPLEMENT FURNISHED FOR YOUR AIRFLANE ARE PROTECTED BY U.S. COPYRIGHTS HELD BY BRAD E. ISHAM AND ISHAM AIRCRAFT.

IT IS THE RESPONSIBILITY OF THE PURCHASER OF THIS MODIFICATION TO ASSURE THAT NONE OF THE DATA FURNISHED WITH THIS MODIFICATION IS COPIED WITHOUT WRITTEN PERMISSION FROM BRAD E. ISHAM OR ISHAM AIRCRAFT.

THE STC'S AND FLIGHT MANUAL SUPPLEMENT ARE SERIAL-IZED AND ALSO CONTAIN THE AIRCRAFT "N" NUMBER AND SERIAL NUMBER OF YOUR AIRPLANE. THEY ARE VALID FOR ONE AIRPLANE ONLY AND MUST BE IN THE PERMANENT RECORDS OF YOUR AIRPLANE.

MANUAL SERIAL NUMBER	
DATE OF MANUAL November 4, 1978	
REVISION DATES: OCTOBER 15, 1991 REVISION A	

To the Mechanic:

This modification is relatively simple to accomplish. The drawings contained in this manual do not list the steps in the proper sequence to take the least amount of shop time. If you'll follow these guidelines it will simplify the modification.

- 1. Remove propeller and have the prop shop reset the low pitch blade angle to 9.7° +.2 -0. While the prop is being reworked you can perform the rest of the modification.
- 2. Remove and replace propeller governor.
- Find the fuel pump pressure adjustment screw (located LNOTE: THIS on the aft side of the pump appx. in the center). STEP IS NOT ALWAYS READ. Using a common screwdriver, turn the needle valve CHECK AT (recessed in the brass nut) one turn clockwise. 2800 RPM BEFORE should bring the fuel pressure up to 17-18 GPH. ADJUSTING. will have to varify the pressure during a static, or take-off run later, on the fuel flow gauge in the airplane. It is not necessary to adjust the complete fuel system, or idle mixture adjustments, unless the engine has been operating improperly prior to this modification. The adjustment of the high pressure setting will not effect the idle mixture. Steps for adjusting the complete system are furnished on drawing number R17201, if needed.
  - 4. Stamp the engine data plate per drawing R17201, sheet 2.
  - 5. Remove the fuel flow and tachometer and install the gauges furnished with this kit.
    - 6. Install the fuel flow placard.
    - 7. Install the propeller.
    - 8. Check for 2800 RPM. If engine does not turn up during a takeoff roll to 2800, turn the adjustment screw on the governor counterclockwise one turn for each 25 RFM. Check fuel flow during take-off roll. WHEN CHECKING RPM LOOK STRAIGHT INTO THE TACH, NOT FROM AN ANGLE.

9. Complete the paperwork. On the 337 form, you will need to check (a) airframe alteration, (b) engine alteration, and (c) propeller alteration. Please forward an extra copy of the 337 form for our files.

It is recommended the back of the 337 form be worded in this manner:

Modified Continental IO-360-K engine IAW STC
SE1436CE dated October 6, 1978. Installed Isham
AirCraft kit P/N R17200 IAW Isham Drawing List
Number R17202 and STC SA1437CE dated October 6, 1978.
All parts are FAA/PMA approved. No weight and
balance change. END.

10. Engine log book:

11. Airframe log book:

Modified to 210 horsepower IAW STC SA1437CE.

Installed "O" time tachometer. See 337 form
dated this date.

12. Repack this manual, exchange governor, tach and manifold pressure/fuel pressure gauge, for shipment to:

ISHAM AIRCRAFT
4300 PALOS VERDES DRIVE
VALLEY CENTER KS 67147

To the Pilot: William AND MARKET ASSESSED AND HOLD MITTADE THOM

There are no changes in the way you will operate this modification except for the added power during takeoff. There are a few items that are noteworthy and may help you understand the differences.

During takeoff, the tachometer will appear to be reading 50 RPM too high. This is due to the angle of your eye in relation to the tachometer. You will find this is also true during cruise.

Your best cruise setting for speed will be 27.5 inches Hg and 2600 RPM.

You will note there is a yellow arc on the tachometer between 2600 and 2800 RPM. This arc is there to caution you to monitor your cylinder head temperature while in a climb out. It is possible on a hot day, loaded full, to overheat the engine at 2800 RPM. If overheating should occur during climbout, run the RPM back to 2600.

Always lean the engine according to the 2800 RPM placard during takeoff. Lean per the 2600 RPM placard for cruise.

#### REVISION A:

NOTE TO THE MECHANIC:

WHEN INSTALLING THE MANIFOLD PRESSURE/FUEL FLOW GAUGE DO NOT HOLD THE INSTRUMENT WITH OPEN FITTINGS FACING UPWARD UNDER THE INSTRUMENT PANEL. THIS MAY ALLOW DUST OR FOREIGN MATTER TO ENTER THE GAUGE THROUGH THE FITTINGS. HOLD THE INSTRUMENT WITH FITTING SIDE FACING DOWNWARD TO AVOID PROBLEMS WITH THE INSTRUMENT.

MODIFICATION OF THE CESSNA R172K AND CONTINENTAL 10-360K TO 210 BHP FOR TAKE-OFF		1 WM	FINISH	AirCraft	SHT. REV.		
INSTALLATION Drawing No. Nomen	nclature BHP Cessna R172K	Date 9-29-78		MATERIAL	Isham Air(	R17202	
IO- R17201 sht. 2 IO-	360K MODIFIED TO 360K-C-SE1436CE 360K MODIFIED TO	9-29-78	*	URE		18 PM	
IO-3	%60K-C-SE1436CE ving List	9–29–78 9–29–78		NOMENCLATURE	VG L15T	CHK MY APPOS	
	ernor Rework ard - Fuel Flow	9-29-78 3-30-89		PART NO	TITLE DRAWING	SCALE N/A	
Wichlta Al	F. A. A. PROVED recraft Certification e, ACE-115W stral Region - LULLET			NO. Assx	UNLESS OTHERWISE SPECIFIED DIM, ARE IN INCHES AND TOLERENCES ARE XX ± .03 ANGLES	.XXX 1.010 MACH. 20.30 FORMED 12*	

Revision A - 3-30-89 to add Fuel Flow Placard fabrication drawing

Em

NOMENCLATURE

NO.

210 BH

Isham AirCraft

APPOMM37C

CHKING

DWNZWAM

MACH. ±0"30" FORMED ±2"

.010

ANGLES

03

UNLESS DIM. DWG

HON

DAT

- 1. Remove upper cowling and nosecap
- 2. Remove propeller governor cover plate on left front engine cylinder baffle
- Disconnect governor control cable and remove governor
- 4. Install serviceable governor furnished with kit
- 5. Check governor control cable for full travel against the low pitch stop
- 6. Install governor cover plate
- 7. Remove spinner dome and propeller in accordance with the Cessna R172K Service Manual
- 8. Change the low pitch blade angle of the propeller to 9.7° +.2 -0° (This must be accomplished by a Certified Repair Station)
- 9. Install propeller and spinner in accordance with the Cessna R172K Service Manual
- 10. Re-mark tachometer:

2200 through 2600 - green arc 2600 through 2800 - yellow arc 2800 - red radial line

note: markings must be on face of dial and not on glass of tachometer

11. Re-mark fuel flow indicator:

red line - 18 GPH above 18 GPH placard "18.5 lbs." all other markings on fuel flow remain

the same

note: markings must be on face of dial and not on glass of fuel flow

- 12. Re-work engine per drawing R17201 dated 9-29-78
- 13. Check static RPM for 2800
- 14. Install Cessna placard P/N 0500270-1 adjacent to fuel flow indicator:

Alternate Isham Aircraft Part Number R17200-1

	FUEL FLOW	
FULL	THROTTLE AND 2800	RPM
S.L.	17	GPH
4000	FT 15	GPH
		GPH
12000	O FT 11	GPH

- 15. Test fly aircraft to check for proper operation, fuel flow, and RPM (make log book entry)
- 16. Make log entry and fill out 337 form
  Revised 2/11/89 to add Alternate Placard P/N R17200-1 and to change fuel flow indicator marking to "18.5 lbs." to be consistent with STC SA 1437 CE.

A

NOTE: When a problem exists with respect to non-repeatability or drifting of fuel pressure, fuel flow, or idle mixture, proceed as follows:

- 1. Turn idle mixture adjusting screw full in until it seats.
- 2. Remove putty from boss which covers the metering cam adjusting screw.
- 3. With unmetered idle pump pressure of 6 8 lbs., and idle RPM set at 600, adjust metering cam screw for proper idle mixture (clockwise to lean, counterclockwise to enrichen.)
- 4. Leave screw refered to in "1" fully seated.

Note: Do not adjust idle mixture without first determining that idle pump pressure is correct.

Copyright Brad E. Isham FINISH Advance to full throttle and 2800 RPM to 5. check pump pressure and nozzle (metered) pressure or flow. (Nozzle pressure of flow values may be monitored MATERIAL by either the gauge provided in the aircraft or an auxiliary pressure gauge teed into the fuel manifold valve pressure port.) 120 Criteria for full throttle full rich adjustment of the fuel system should be 16.0 - 18.0 PSI nozzle pressure or 17 - 18 GPH. Unmetered pump pressures at full throttle (24 - 27 PSI) are included for reference only and may be used for APPDSENSEE troubleshooting the metering unit portion of the NOMENCLATURE DATE 9-29-78 fuel system. MODIFIED -360K-C-SE1436C To obtain specified values of nozzle pressure 6. or fuel flow at full throttle and 2800 RPM, turn the variable orifice adjusting screw (located on the side of the pump) CW to increase pressure and CCW to decrease TITLE TO-360K pressure. If a static run-up rated 2800 RPM cannot Note: be achieved at full throttle, adjust DWNISHAM SCALE NIA nozzle pressure or flow slightly below limits making certain specified values PART NO. are achieved when rated RPM is achieved during takeoff roll. MACH. ±0°30° FORMED ±2° NOT SCALE DWG. Re-mark engine data plate: \* 3. IO-360-K-C-SE1436CE (a) Model: 210 TO, 195 Continuous (b) Horsepower: NO. 2800 TO, 2600 Continuous (c) RPM: 010. ± XXX Make log book entry and fill out 337 form 4. 00 For additional information and adjustment NOTE: procedures consult the Cessna R172K Service Manual, Continental IO-360 Series Service Manual, and Continental Service Bulletin M76-11 Rev. 2, dtd 3-1-78. ON 10-360-KB ENGINES REMARK ENGINE DATA PLATE: \* 5. F. A. A. (a) Model: IO-360-KB-C-SE1436CE APPROVED 210 TO, 195 Continuous (b) Horsepower: Wichita Aircraft Certification 2800 TO. 2600 Continuous (c) RPM: Office, ACE-115W Central Region Date JUE 4,1984 Boalleton

MUU 3 1992 72-196

O Brad E. 1 sham 1991 P.O. Box 193 Valley Center, Kansas 67147 (316)755-0713

FAA APPROVED AIRPLANE FLIGHT MANUAL SUPPLEMENT FOR

CESSNA R172K WITH

BRAD E. ISHAM 210 HORSEPOWER MODIFICATION INSTALLED

Registration Number N736 NN

Serial Number R172 2659

This supplement must be included in Section 9 of the pilot's operating handbook and FAA approved Airplane Flight Manual dated July 1, 1978 or subsequent reissue date when Brad E. Isham 210 brake horsepower (BHP) engine installation is installed in accordance with STC's SE1436CE and SA1437CE. The information contained herein supplements or supersedes the basic manual only in those areas listed herein. For limitations, procedures and performance information not contained in this supplement, consult the basic airplane flight manual.

FAA Approved: Am Bale Lawrence A. Herron, Manager Aircraft Certification Office Federal Aviation Administration Wichita, Kansas

Date:

October 17, 1978

Revision Date: January 28, 1991

AIRPLANE FLIGHT MANUAL SUPPLEMENT FAA APPROVED FOR

CESSNA R172K MITH

BRAD E. ISHAM 210 HORSEPOWER MODIFICATION INSTALLED

## LOG OF REVISIONS

Revisi Number

Approved By*	R.G. Puckett	G.M. Baker	Om Bake	
Date of Revision	10/17/78	01/28/82	01/28/91	
Description of Change	Original	Added Floatplane	Reformatted, added revision page, changed address, added engine model designation, revised signature block	
Pages Affected	a11	2	all	
5 1				

d

8

SECTION 1. GENERAL:

of two supplemental type SE1436CE allows modification of the Continental IO-360-K and IO-360-KB engine to run at 210 horsepower for takeoff. STC SA1437CE allows use of the modified engine in the This modification consists certificates (STC). STC Cessna R172K airplanes.

# SECTION 2. LIMITATIONS:

Engine Model Number: IO-360-KC/SE1436CE or IO-360-KBC/SE1436CE Engine Operating Limits for takeoff and continuous operations: Takeoff Power - 5 minutes - Full Throttle, 2800 RPM Maximum Continuous Power - Full Throttle, 2600 RPM Propeller Blade Angle at 30 inch station: Floatplane - Low 9.8° Landplane - Low 9.7° (210 BHP) (195 BHP)

### Powerplant Markings: Tachometer:

18 gal/hr (18.55 psi) - red radial line 4.5 through 11.5 gal/hr - green arc 2600 through 2800 - yellow arc 2200 through 2600 - green arc 3 psi - red radial line 2800 - red radial line Fuel Flow:

### Placards:

Adjacent to existing fuel flow placard:

	-	LUEL LLUM	-	3	3			
FULL	FULL THROTTLE AND 2800 RPM	TTLE	-	S	4	280	0	RPM
S.L.	S.L 17 GPH		:	:		-	2	CPH
4000	4000 FT 15 GPH	:				-	10	CPH
8000	8000 FT 13 GPH			:		-	M	CPH
12000	12000 FT 11 GPH					-	-	GPH

Revision A: January 28, 1982 Revision B: January 28, 1991 Date: October 17, 1978 FAA Approved

Page 3 of 4

SECTION 3. EMERGENCY PROCEDURES - No change

SECTION 4. NORMAL PROCEDURES:

Takeoff:

Power - Full Throttle and 2800 RPM

SECTION 5. PERFORMANCE:

The performance of this airplane equipped with STC SE1436CE and SA1437CE is equal to or better than the performance as listed in the original FAA approved Airplane Flight Manual.

SECTION 6. EQUIPMENT LIST - No change

SECTION 7. AIRPLANE & SYSTEMS DESCRIPTIONS - No change

SECTION 8. AIRPLANE HANDLING SERVICE & MAINTENANCE - No change

FAA Approved Date: October 17, 1978 Revision A: January 28, 1982 Revision B: January 28, 1991

6	
US Department of Transportation	

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

OMB No. 2120-0020 2/28/2011	
	or FAA Use Only

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instru	uctions	TIONS: Print and disposion. (49 U.S.	ition	of thi	s form.	es. See Title 14 This report is rec	CFF	d b	43.9 by la	Part 43 w (49 U,	Appendix B, ai S.C. §44701). Fa	nd A0 ailure	43.9- to repo	1 (or sui ort can re	bsequent esult in a c	revision thereof) for civil penalty for each
		Nationality	y and	d Reg	istratio	n Mark					Serial No.					
d Aire	u-64	N736NN	1								R1722659					
1. Airc	rait	Make									Model				Series	
		Cessna									R172K					
	- 1	Name (As	sho	wn or	n regist	ration certificate)					Address (As					*)
2. Own	er										Address 301 V			Blvd S	TE 200	State IN
			^-	- Á		11.0					City Fort V			Cour	ntry USA	2 rate III
		Hangar	One	e Av	lation	LLC	- 2	2 E	For F	AA Use	Zip <u>46802</u>	2-302	13		IIII USA	
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	]		PR	OPEL	LER											
			API	PLIAN	ICE	Type Manufacturer										
			_				6.	Со	onfo	mity Sta	tement					
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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 national sheets.)	ionality and registration mark and dat	e work completed.)
	N736NN	3/29/17
	Nationality and Registration Mark	Date
This facility removed the following components: KX155 National This facility installed the following components: Garmin GN Garmin GTX345 ADS-B Transponder. The GNS530W was installed; PN: 190-00357-02, Revision L, dated January 31, 201 D. The GTX345 was installed in accordance with manufacture dated September 30, 2016. The GTX345 was installed per ST ramp checked in accordance with manufacturer installation manufacturer's performance specifications. No interference was systems in the aircraft. Supplementary weight and balance date analysis was done and found that the load on the electrical systems in the aircraft continued airworthiness are contained your 337 form.  Customer was provided with FAA approved, GNS530W AFMS	IS530W Nav/Com/GPS, GA3- stalled in accordance with ma 16. The GNS530W was installer's installation manual; PN: 19 C# SA01714WI. The above anual listed above and was for as found between the installer ta was updated with this projectem was reduced with this installer and on GNS530W and GTX345	5 GPS Antenna and nufacturer's installation led per STC# SA01933LA-90-00734-10, Revision 8, mentioned system was und to operate within d system and the existing ect. An electrical load stallation project.
March 8, 2016.	dated November 20, 2014 at	nd GTX345 AFINS dated
end		
Tr-PT-E	-41	
✓ Additional Shee	ets Are Attached	

#### United States of America

#### Department of Transportation -- Federal Aviation Administration

#### Supplemental Type Certificate

Number SA01714WI

This certificate issued to

Garmin International, Inc. 1200 East 151st Street Olathe, KS 66062

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 23\* of the Federal Aviation Regulations.

Original Product - Type Certificate

Number: Monke: \* See attached Approved Model List (AML) No. SA01714WI dated May 1, 2013 or later FAAapproved revision for list of approved aircraft models

Model:

and applicable airworthiness regulations.

Description of Type Design Change:

Installation of a Garmin transponders: (a) GTX 330/330D/33/33D with ADS-B Out functionality; (b) GTX 335/335R/345/345R with ADS-B Out functionality; or (c) GTX 335R/345R with ADS-B Out functionality in select airplanes installed with G950/G1000 systems.

#### Data Required:

- (1) Garmin Master Drawing List (MDL) 005-00734-04, Revision I, dated May 1, 2013 or later FAA-approved revision.
- (2) Garmin Airplane Flight Manual Supplement or Supplemental Airplane Flight Manual (AFMS), 190-00734-15, Revision 1, dated May 1, 2013 or later FAA-approved revision.

#### Limitations and Conditions:

- (1) Compatibility of this design change with previously approved modifications must be determined by the installer.
- (2) Aircraft installations involving the Garmin transponder GTX 33/33D/330/330D models require the previous installation of an approved ADS-B position source. Refer to the design data specified in the Master Drawing List (MDL) listed above for specific hardware and software requirements.
- (3) Aircraft installations involving the Garmin transponder GTX 335/335R/345/345R models without an optional internal GPS require the previous installation of an approved ADS-B position source. Refer to the design data specified in the Master Drawing List (MDL) listed above for specific hardware and software requirements.

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 Avoiation Administration.

Date of application: August 7, 2012

Date reissued:

Lute of issuance: May 1, 2013

Date amended: April 29, 2014, March 8, 2016

TOMINISTRATION

By direction of the Administrator

ignature)

Michael Warren
ODA STC Unit Administrator
ODA-240087-CE

Garmin International, Inc.

(Title)

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

# FAA Approved Model List (AML) STC SA01714WI

	Table I: Approved Aircraft WITHOUT GX000 Equipped Flight Deck System for installation of GTX 33/330 or GTX 335/345 Transponders	UT GX000 Equipp or GTX 335/345 Th	ed Flight Deck Sy ansponders	ystem		
Airplane Make (TCDS Holder) [common name or previous make]	Airplane Model Designation	Type Certificate Number	* TC Certification Basis	Master Drawing List Revision (005-00734-04)	AML Revision/Date	Notes
	310, 310A (USAF U-3A), 310B, 310C, 310D, 310E (USAF U-3B), 310F, 310G, 310H, E310H, 310I, 310J, 310J-1, E310J, 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R	3A10	CAR 3 FAR 23	1	Original 5/1/2013	
	172, 172A, 172B, 172C, 172D, 172E, 172F (USAF T-41A), 172G, 172H (USAF T-41A), 172I, 172K, 172L, 172M, 172N, 172P, 172Q (Skyhawk), 172K, 172S	3A12	CAR 3 FAR 23	1	Original 5/1/2013	
Textron Aviation Inc. (Textron Aviation Inc.) [Cessna Aircraft Company]	182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, R182, T182, TR182, 182S, 182T, T182T	3A13	CAR 3 FAR 23	ï	Original 5/1/2013	
	172RG, P172D, R172E (USAF T-41B), (USAF T-41C and D), R172F (USAF T-41D), R172G (USAF T-41D), R172H (USAF T-41D), R172J, R172K, 175, 175A, 175B, 175C	3A17	CAR 3 FAR 23	1	Original 5/1/2013	
	150, 150A, 150B, 150C, 150D, 150E, 150F, 150F, 150F, 150M, 150J, 150M, 150M, 152, A150M, A150F, A150	3A19	CAR 3 FAR 23	-	Original 5/1/2013	

#### United States of America

#### Bepartment of Transportation - Federal Aviation Administration

#### Supplemental Type Certificate

Number SA01933LA-D

This certificate issued to

Garmin International, Inc. 1200 East 151st Street Olathe, KS 66062

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 23 \* of the Federal Aviation Regulations.

Original Product -- Type Certificate Number: \* See attached Approved Model List (AML) SA01933LA-D

Make: dated Jan. 14, 2011 or later FAA-approved revision for list of Model: aircraft models and applicable airworthiness regulations.

Description of Type Design Change: Installation of Garmin 400W/500W Series Navigation System: Installation of 400W Series navigators are accomplished in accordance with data provided in Garmin 400W Series Master Drawing List, Drawing No.: 005-C0221-00, Rev. "B", dated October 1, 2007, or later FAA approved revision; with 400W Series Airplane Flight Manual Supplement, document No. 190-00356-03, Rev. "Original", dated November 20, 2007 or later FAA approved revision.

Installation of 500W Series navigators are accomplished in accordance with data provided in Garmin 500W Series Master Drawing List, Drawing No.: 005-C0221-01, Rev. "B", dated October 1, 2007, or later FAA approved revision; with 500W Series Airplane Flight Manual Supplement, document No. 190-00357-03, Rev. "Original", dated November 20, 2007 or later FAA approved revision.

#### Limitations and Conditions:

- 1) Compatibility of this design change with other previously approved modifications must be determined by the installer; installation of this change should not introduce any adverse effect on the rotorcraft.
- 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.
- 3) A copy of this certificate and associated AML, plus the applicable ICA and AFMS, as called out by the applicable Master Drawing List (reference above), must be maintained as part of the permanent records for the modified aircraft.

(See Continuation Sheet on Page 3)

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:

January 31, 2006

Date of issuance:

Date reissued:

July 31, 2009

November 6, 2006

Date amended: November 20, 2007

April 1, 2013, November 20, 2014

By direction of the Administrator

(Signature)

Michael Warren, ODA STC Unit Administrator ODA-240087-CE, Garmin International, Inc.



# FAA Approved Model List (AML) STC SA01933LA-D

				Master Drawing List	ing List	
Aircraft Make (TCDS Holder) [common name or previous make]	Aircraft Model	Type Certificate Number	TC Certification Basis	Document Number	Revision (or later FAA approved revision)	AML Revision Date
B-N Group LTD (G-N Group Ltd.) [Britten-Norman Limited]	BN2A MK. III, BN2A MK. III-2, BN2A MK. III-3	A29EU	FAR 23	005-C0221-00 005-C0221-01	¥	11/6/2006 Original
Bushmaster Acft. Corp. (Bushmaster Aircraft Corporation)	Bushmaster 2000	A19WE	CAR 3	005-C0221-00 005-C0221-01	Ą	11/6/2006 Original
Cessna (Cessna Aircraft Company)	310, 310A (USAF U-3A), 310B, 310C, 310D, 310E (USAF U-3B), 310F, 310C, 310H, E310H, 310J, 310J-1, E310J, 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R	3A10	CAR 3	005-C0221-00 005-C0221-01	А	11/6/2006 Original
Cessna (Cessna Aircraft Company)	172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172H, 172I, 172K, 172L, 172M, 172N, 172P, 172Q, 172R, 172S	3A12	CAR 3 FAR 23	005-C0221-00 005-C0221-01	У	11/6/2006 Original
Cessna (Cessna Aircraft Company)	182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 182S, 182T, R182, T182, TR182, T182T	3A13	CAR 3 FAR 23	005-C0221-00 005-C0221-01	¥.	11/6/2006 Original
Cessna (Cessna Aircraft Company)	172RG, P172D, R172E, R172F, R172G, R172H, R172J, R172J, R172K, 175, 175A, 175B, 175C	3A17	CAR 3	005-C0221-00 005-C0221-01	Y	11/6/2006 Original
Cessna (Cessna Aircraft Company)	150, 1504, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150H, 150J, 150K, 150L, 150M, A150K, A150L, A150M, A150K, A15	3A19	CAR 3 FAR 23	005-C0221-00 005-C0221-01	V	11/6/2006 Original
Cessna (Cessna Aircraft Company)	210, 210A, 210B, 210C, 210D, 210E, 210F, T210F, 210G, T210G, 210H, T210H, 210I, T210I, 210K, T210K, 210L, T210L, 210M, T210M, 210N, P210N, T210N, 210R, 210R, T210N, 210R, 210R, 210R, 210-5A	3A21	CAR 3	005-C0221-00 005-C0221-01	Y	11/6/2006 Original
Cessna (Cessna Aircraft Company)	185, 185A, 185B, 185C, 185D, 185E, A185E, A185F	3A24	CAR 3	005-C0221-00 005-C0221-01	٧	11/6/2006 Original
Cessna (Cessna Aircraft Company)	320, 320A, 320B, 320C, 320D, 320E, 320F, 320-1, 335, 340, 340A	3A25	CAR 3	005-C0221-00 005-C0221-01	٧	11/6/2006 Original
Cessna (Cessna Aircraft Company)	140A	5.42	CAR 3	005-C0221-00 005-C0221-01	V	11/6/2006 Original
Cessna (Cessna Aircraft Company)	180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K	5A6	CAR 3	005-C0221-00 005-C0221-01	V	11/6/2006 Original
Cessna (Cessna Aircraft Company)	177, 177A, 177B	A13CE	FAR 23	005-C0221-00 005-C0221-01	V	11/6/2006 Original
Cessna (Cessna Aircraft Company)	207, 207A, T207, T207A	A16CE	FAR 23	005-C0221-00 005-C0221-01	Α	11/6/2006 Original

Issued: November 6, 2006 Revised: January 14, 2011