



## **NATIONAL TRANSPORTATION SAFETY BOARD**

Office of Aviation Safety  
Washington, D.C. 20594

January 31, 2018

# **AIRWORTHINESS**

## **Group Chairman's Factual Report**

**WPR17FA117**

**Attachment 1 – Maintenance Records  
(12 pages)**

GP AVIATION, INC.

SANTA PAULA, CA 93060

FREQUENCY CHECKED

DATE

INSPECTED

RESU

REG: N3683C

MAKE: Cessna 180

SERIAL: 31182

Date: 01-25-2005

TACH: 213.2

TT: 3871.6

Replaced the following parts after minor ground accident. Right wing parts: Center rib- station 190 P/N 0523515-3, Nose rib- station 190 P/N 0523515-4, Center rib- station 208 P/N 0720608-7, Nose rib- station 208 P/N 0720608-2, Wing tip P/N 0723615-200, Wing skin- station 140 to 205 P/N 0720601-16, Upper skin P/N 0720001-16, Upper skin P/N 0720601-20, Upper skin P/N 0720601-17, Lower skin P/N 0720601-18, Auxiliary spar P/N 0523005-51. Right Elevator: Elevator Spar P/N 0734601-3 and Elevator leading edge P/N 0734600-5. Replaced outer right wheel half with Cleveland P/N 162-02700, see 337. Replaced one flap forward roller left flap P/N 0523921, and installed eight forward Flap Wear Washers per SEB95-3 Rev. 1. Installed Overhauled Teledyne Continental O-470-S, Serial Number 269243-R from Tim's Aircraft Engines Inc. Repair Station T22R537Y. Installed overhauled Engine Mount P/N 0751001-1 S/N K1959 from Kosola & Associates, Inc. Repair station HE4R229M. See 337 and FAA Approved Aircraft Flight Manual for engine installation, operation and Continued Airworthiness. Aircraft assembled and rigged using Cessna 100 Series Service Manual P/N D138-13-RPC-300-8/90.

- ACP

<b>MAJOR REPAIR AND ALTERATION</b> <b>(Airframe, Powerplant, Propeller, or Appliance)</b>				Form Approved OMB No. 2120-0020 <hr/> <b>For FAA Use Only</b> <hr/> Office Identification	
US Department of Transportation 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 form is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).					
1. Aircraft	Make <b>Cessna</b>			Model <b>180</b>	
	Serial No. <b>31182</b>			Nationality and Registration Mark <b>N3683C</b>	
2. Owner	Name (As shown on registration certificate) <b>Michael Brannigan</b>			Address (As shown on registration certificate) <b>Lake Sherwood, CA 91361</b>	
3. For FAA Use Only					
4. Unit Identification					5. Type
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	<del>XXXXXXXXXX</del> (As described in item 1 above) <del>XXXXXXXXXX</del>			X	
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				
6. Conformity Statement					
A. Agency's Name and Address			B. Kind of Agency		C. Certificate No.
<b>CLAY PHELPS</b> <b>SANTA PAULA, CA 93060</b>			<input checked="" type="checkbox"/> U.S. Certificated Mechanic		<b>A&amp;P</b>
			<input type="checkbox"/> Foreign Certificated Mechanic		
			<input type="checkbox"/> Certificated Repair Station		
			<input type="checkbox"/> 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 <b>01-25-2005</b>			Signature of Authorized Individual 		
7. Approval for Return to Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Flt. Standards Inspector	Manufacturer	X	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canadian Airworthiness Group	
Date of Approval or Rejection <b>01-25-2005</b>		Certificate or Designation No. 		Signature of Authorized Individual 	

## NOTICE

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

### 8. Description of Work Accomplished

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

1. Parts replacement and discription to right wing. Replaced upper skin from station 100 to station 190. Replaced leading edge skin, upper and lower skins, center ribs, nose rib and fairing rib between station 190 and 208. Replaced Auxiliary Spar (Aileron Bay). New parts are as follows.

0523515-3 Center Rib  
0523515-4 Nose Rib  
0720608-7 Center Rib  
0720608-2 Nose Rib  
0723615-200 Wing Tip  
0720601-16 Wing Skin  
0720001-16 Upper Skin  
0720601-20 Upper Skin  
0720601-17 Upper Skin  
0720601-18 Lower Skin  
0523005-51 Auxiliary Spar (Aileron Bay)

2. Replaced Spar and leading edge in right Elevator, parts as follows

0734601-3 Elevator Spar  
0734600-5 Elevator Leading Edge

3. Replaced right outboard wheel half, part as follows.

162-02700 Wheel Half (Cleveland)

4. All work done in accordance with Cessna 100 Series Service Manual P/N D138-13-RPC-300-8/90, and AC 43.13-1B.

5. Log entry made, no change in weight and balance.

----- E N D -----

☐ Additional Sheets Are Attached

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alteration
DATE	639.9			Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

3-7-2016

Ray's Aviation

Santa Paula CA. 93060

CRS R6AR284J

The transponder(s) in this aircraft has / have been tested and found in compliance with 14CFR 91.413 and 14CFR 43 Appendix F.

Transponder: Mfr.: NARCO

Model: AT150 S/N 30854

Aircraft Reg. No.: N3683C

Date: 3-7-2016

Randall K. Oaks



[illegible]



US Department  
of Transportation  
Federal Aviation  
Administration

**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))

1. Aircraft	Nationality and Registration Mark <b>N3683C</b>	Serial No. <b>31182</b>	
	Make <b>CESSNA</b>	Model <b>180</b>	Series -----
2. Owner	Name (As shown on registration certificate) <b>BRANNIGAN MICHAEL J</b>	Address (As shown on registration certificate) Address [REDACTED]	
		City <b>THOUSAND OAKS</b>	State <b>CA</b>
		Zip <b>91361-5108</b>	Country <b>USA</b>

**3. For FAA Use Only**

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER	_____	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type _____	_____	_____
			Manufacturer _____		

**6. Conformity Statement**

A. Agency's Name and Address		B. Kind of Agency	
Name <b>NICHOLAS EDWARD BISHOP</b>	Address [REDACTED] City <b>UKIAH</b> State <b>CA</b> Zip <b>95482</b> Country <b>USA</b>	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer
		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
		<input type="checkbox"/> Certificated Repair Station	
		<input type="checkbox"/> Certificated Maintenance Organization	[REDACTED]

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of A <b>10/10/1</b> [REDACTED]
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**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

BY	FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify) _____

Certificate or Designation No. [REDACTED]	Signature/Date of Authorized Individual <b>NICHOLAS E. BI</b> [REDACTED]
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## NOTICE

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

### 8. Description of Work Accomplished

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

N3683C

10/10/16

Nationality and Registration Mark

Date

REPLACE UPPER & LOWER CORRUGATED SKINS ON RH ELEVATOR AND REPLACE CAP WITH SERVICEABLE USING PROCEDURES IN CESSNA 100 SERIES 1962 & PRIOR SERVICE MANUAL SEC. 19 (STRUCTURAL REPAIRS) AND AC 43.13-1B CHAP. 4 SEC. 4(METAL REPAIR PROCEDURES)4-52b., 4-53, 4-55, 4-56, AND 4-57a.b.c.d.

-----END-----

THE INSTALLER IS TO FILL OUT BLOCKS 1 & 2 OF THIS FORM AND SUBMIT I.A.W. AC 43.9-1F.

THE INSTALLER IS TO SIGN AND DATE THIS FORM UPON INSTALLATION:

SIGNATURE & CERT. # \_\_\_\_\_

DATE OF INSTALLATION \_\_\_\_\_

☐ Additional Sheets Are Attached



Ray's Aviation

██████████ Santa Paula Airport  
██████████  
Santa Paula, CA 93060

# Invoice

DATE	INVOICE #
11/1/2016	5379

**BILL TO**

MICHAEL BRANNIGAN

WOODLAND HILLS, CA 91364  
CESSNA 180 N3683C

MAKE	MODEL	S/N	R.O. NO.	TERMS	REGISTRATION
CESSNA	180	31182	010655 tach678	COD	N3683C

QUANTITY	DESCRIPTION	RATE	AMOUNT
26	Shop Labor REMOVE AND REINSTALL HORIZONTAL STAB AND ELEVATORS. CHECK CONTROL STATIC BALANCE PER CESSNA MANUAL AFTER PAINT. RIGG CONTROLS.  Shipping and/or crating HORIZONTAL AND ELEVATORS. 2 WAYS-- BUILD CRATE FOR SHIPPING		
1	C-180 HORIZONTAL STABILIZER EXCHANGE		
6	Sublet Labor INSTALL ABRASION BOOTS Shipping and/or crating INBOUND FREIGHT ON HORIZONTAL STAB - EXCHANGE		
12	Shop Labor PAINT REPAIRED HORIZONTAL STAB AND REPAIRED RIGHT ELEVATOR. REPAINT LEFT ELEVATOR FOR COLOR MATCH. Sublet Labor RESKIN RIGHT ELEVATOR		
2	ELEVATOR SKINS		
2	BOOT P/N S1938-3-68.00		
1	C-182 ELEVATOR TIP		
1	MISC. SUPPLIES Shipping and/or crating INBOUND MISC PARTS		
1	MISC. SUPPLIES, PAINT -- COLOR MATCH. PRIMER, ACID WASH		
2	Shop Labor REPLACE BENT ELEVATOR JACK SCREWS		
1	JACK SCREW KIT Shipping and/or crating		
16	Shop Labor STRIP PAINT FROM LEFT ELEVATOR AND CORRECT ELEVATOR STATIC BALANCE. RECHECK AND REPAINT. REINSTALL.		
<b>Total</b>			

Phone #

E-mail

Ray's Aviation

[REDACTED] Santa Paula Airport  
[REDACTED]  
Santa Paula, CA 93060

# Invoice

DATE	INVOICE #
11/1/2016	5379

BILL TO

MICHAEL BRANNIGAN  
[REDACTED]  
WOODLAND HILLS, CA 91364  
CESSNA 180 N3683C

MAKE	MODEL	S/N	R.O. NO.	TERMS	REGISTRATION
CESSNA	180	31182	010655 tach678	COD	N3683C

QUANTITY	DESCRIPTION	RATE	AMOUNT
	MISC. SUPPLIES, RIVITS SALES TAX		[REDACTED]
		<b>Total</b>	[REDACTED]

Phone #

E-mail
[REDACTED]

Williams Airmotive  
A Division of ACW Inc

Kendallville, Indiana 46755

W.O. No 18226  
Date Sep. 14, 2016  
Tach. \_\_\_\_\_

Name: West Coast Wings  
Address [REDACTED]  
City & State Ukiah CA 95482

General Description of Repair:

Stabilizer repaired with the following parts replaced:

1. 0732600-2 Skin, LH and RH outboard
2. 0732600-5 Skin, LH inboard
3. 0732600-6 Skin, RH inboard
4. 0732602-2 Channel, RH outboard
5. 0732611-9 Rib, LH and RH
6. 0732611-10 Rib, LH and RH
7. 0732611-11 Rib, LH and RH

END

The aircraft and/or component identified above was repaired and inspected in accordance with the Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the repairs are on file at this agency under the above Work Order Number. Sep. 14, 2016

By \_\_\_\_\_

Authorized Signature for Repair Station WWFR 300K

I hereby authorize the following repair work to be done along with the necessary material, and hereby grant you and/or your employees permission to operate and fly the aircraft herein described for the purpose of testing and/or inspection. An express mechanic's lien is hereby acknowledged on this aircraft to secure the amount of repairs thereto. You will not be held responsible for loss or damage to the aircraft or articles left in case of fire, theft, or any other cause beyond your control. If it becomes necessary for you to employ a collection agency and/or an attorney to collect this account, I the undersigned agree to pay all court costs plus a reasonable attorney's fee and/or collection agency fee.

X \_\_\_\_\_

Make Cessna Model 180  
Part No. 0732600-4  
Assembly No. or Title Horizontal stabilizer assy.

Make Cessna Model 180 S.N. \_\_\_\_\_  
P.N. 0732600-4 Title Horizontal stabilizer assy.

This aircraft/component/subassembly identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this agency under Work Order No. 18226

Date: Sep. 14, 2016 Signed: \_\_\_\_\_

WILLIAMS AIRMOTIVE  
A DIV. OF ACW INC.

Kendallville, Indiana 46755



YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				
12-20-16	682.1		<del>4538.7</del> 4555.7	REMOVED PMA4000 AUDIO PANEL/INTERCOM UNIT REPAIRED BY PS. ENGINEERING. RE-INSTALLED UNIT. OPS CHECK OK. REPLACED BOTH COMM ANT. W/ RDM NV-10 ANTENNAS. [REDACTED]
3-14-17	694.5		4566.1	C/W 11-10-09 SURVIVAL, NO DEFECTS. R/C DA 8005 AIR FLOW, R/C 4 W/ 56545-1 AIR. MOUNT VIBRATION ISOLATORS + INST. 4 DA. MC 085/559-1 LOCKTIPS. RE-SCALED FUEL SUIZOR VALVE W/ 1/4" INCH W/ 555-KT-6. LK CK OK. I CERTIFY THIS A/C HAS BEEN INSP. 1/4" IN ANNUAL INSPECTION, + DETERMINED TO BE IN AIRWORTHY CONDITION THIS DATE. [REDACTED]



YEAR: <u>2017</u> DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
5-1-17	700.4		4572.0	MOUNTED GERMU 660 Duct to Panel Overlay US, Wm #8 SCREWS IN PLATES, MOUNTED GERMU 6223930 to top of glove box. Both WIRED FOR POWER LAW GERMU INSIDE MANAGER. Both protected by 3A FUSES. [REDACTED]
5-5-17	701.0		4572.6	Fabricated & installed 2-wire Battery Charger connection harness using M4-W-22759/16 AWG w/ 10A inline circuit protection fuse. Attached to Battery relay & neg terminal w/ ring terminals. Terminated opposite end w/ Anderson SB50 plug w/ protective cover & mounted to engine mount. All work LAW AL43.13 B. Verified correct polarity, tested w/ Charger and Co-proper elect. system operation. No defects noted at this time. [REDACTED]