

MUST REMAIN
IN AIRCRAFT

ASPEN AVIONICS

Aspen Avionics, Inc.
5001 Indian School NE
Albuquerque, NM 87110 USA

FAA APPROVED
AIRPLANE FLIGHT MANUAL SUPPLEMENT
or
SUPPLEMENTAL AIRPLANE FLIGHT MANUAL
for the
ASPEN AVIONICS EVOLUTION FLIGHT DISPLAY SYSTEM
EFD1000 PRIMARY FLIGHT DISPLAY
Optionally with
EFD1000 AND/OR EFD500 MULTI-FUNCTION DISPLAYS
or
Aspen Evolution Backup Display

The information contained in this Supplement must be attached to the FAA Approved Airplane Flight Manual or placed with the Pilot's Operating Handbook or other operating information when the Aspen EFD1000 PFD and optionally the Aspen EFD1000 MFD and/or EFD500 MFD are installed in accordance with AML STC SA108228C. This document must be carried in the aircraft at all times.

The information in this Supplement supplements or supersedes the information in the FAA Approved Airplane Flight Manual or other operating information only as set forth herein.

For limitations, procedures, and performance data not contained in this Supplement, consult the Airplane Flight Manual or other operating information.

Airplane Make: CESSNA
Airplane Model: 182Q
Airplane Registration Number: N4765N
Airplane Serial Number: 18267348

FAA APPROVED BY

Scott A. Horn
Manager, Fort Worth Aircraft Certification Office, ASW-140
Fort Worth, Texas 76177

DOCUMENT 900-00008-001
FAA Approved
Date: 31 March 2016

PAGE 1 OF 43
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REVISION AB

Cessna



AIRCRAFT LOG
AND MAINTENANCE RECORD

N4765N SERIAL NO. 18267348



N4765N

MAINTENANCE RECORDS

EQUIPMENT LIST

AD COMPLIANCE LIST

FAA FORM 337'S

SUPPLEMENTAL TYPE CERTIFICATES

AIRWORTHINESS APPROVAL FORMS

Weight / Balance & Equipment List Revision

Page # : 1

General Avionics, Inc. - Y4XR461Y

18000 Groeschke Road, Hangar 1-E
Houston, TX 77084 Tel: 281-647-9600

A/C Tail # : N4765N

Register Name : D&S Aviation

Name 2 :

Address 1 :

Address 2 :

City, State, PC : Sulphur, LA 70665

A/C Make : Cessna

A/C Model : 182Q

A/C Serial # : 18267348

WO Ref # : 13748

WB Date : Oct-29-2019

WB ID # : 387

Previous data taken from document dated Jun-26-2017 Previous useful load = 1053.50

Model #	Description	(LB / IN)	Weight	CG/Arm	Moment
		Previous data ->	1896.50	34.72	65852.06
REMOVED ITEMS -----					
NAVOMATIC 300A	AUTOPILOT		-9.80	53.60	-525.28
ROLL SERVO	SERVO		-5.80	78.60	-455.88
REMOVED SUB TOTAL	2 Items @		-15.60	62.89	-981.16
INSTALLED ITEMS -----					
G5 AI	GARMIN ELECTRONIC AI		1.00	15.00	15.00
GMC 507	GFC 500 AP CONTROLLER/DISPLAY		1.00	16.60	16.60
GSA 28	ROLL SERVO		2.00	70.40	140.80
GSA 28	PITCH SERVO		2.10	159.00	333.90
GSA 28	PITCH TRIM SERVO		2.20	144.20	317.24
GDU 29B	INTERFACE ADAPTER/CONVERTER		0.65	12.00	7.80
GMU 11	MAGNETOMETER		0.26	55.00	14.30
INSTALLED SUB TOTAL	7 Items @		9.21	91.82	845.64
NEW DATA >>	NEW USEFUL LOAD = 1059.89		1890.11	34.77	65716.54

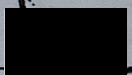
Authorized Individual:

General Avionics, Inc. 18000 Groeschke Road Hangar 1-E Houston, TX 77084 Y4XR461Y
LOG ID# 675 29-October-2019 WO# 13748
N4756N S/N 182677348 CESSNA 182Q

Pg 1 / 1

REMOVED ARC 300A AP SYSTEM.
INSTALLED GARMIN GFC 500 WITH AUTOTRIM.
INSTALLED GARMIN G5 COPILOT PFD.
WEIGHT AND BALANCE REVISED.
SEE ALSO FAA 337 THIS DATE.
FAA APPROVED FLIGHT MANUAL SUPPLEMENTS PROVIDED AS WELL.
A/C RECERTIFIED TO FAR 91.411, FAR 91.413, FAR 91.217.

THIS AIRCRAFT HAS BEEN TESTED AND INSPECTED IN ACCORDANCE WITH
CURRENT FAA MAINTENANCE RULES AND IS APPROVED FOR RETURN TO
SERVICE WITH RESPECT TO THE WORK DESCRIBED ABOVE.

Signed Y4XR461Y  10/29/19 Date

GARMIN

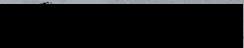
October 31, 2019

**Subject: Permission to Use FAA STC SA01818WI or EASA STC 10060846 , or EASA STC 10064473
Installation of Garmin G5 Electronic Flight Instrument
See Approved Model List (AML) for Approved Aircraft Models**

Pursuant to 49 U.S.C. 44704, 14 CFR § 21.120, 14 CFR § 91.403(d), FAA Order 8110.48 and FAA Advisory Circular 21-40; Garmin International, Inc. hereby grants permission to PAUL PERRY owner/operator of CESSNA 182Q bearing manufacturer's serial number 18267348 to use FAA Supplemental Type Certificate SA01818WI and deliverable data associated with it, for the sole and express purpose of installation and approval of the installation of a Garmin G5 Electronic Flight Instrument into the above referenced aircraft. Installer must still verify airframe eligibility per STC SA01818WI and the associated Approved Model List (AML). Following modification per STC SA01818WI, a copy of this permission letter should be placed in the aircraft's permanent records. Alteration or reproduction of this letter is strictly prohibited.

For Aircraft registered in an EASA state, EASA STC **10060846** (EASA Validation of US FAA STC SA01818WI) may be used in the same manner as STC SA01818WI, provided the aircraft is listed on the AML for STC SA01818WI and the aircraft also has a EASA Type Certificate.

For Aircraft registered in an EASA state but not on the FAA STC, EASA STC **10064473** may be used in the same manner as STC SA01818WI, provided the aircraft is listed on the EASA Approved AML 005-01112-46 for STC 10064473.


Robert G. Murray
Director, Aircraft Certification
Garmin International, Inc.

GENERAL AVIONICS, INC.

FAA CRS# Y4XR461Y

NO.: 13748

18000 GROESCHKE ROAD
HANGAR 1-E

HOUSTON, TEXAS 77084
(281) 647-9600 fax (281) 647-9899

INITIAL AS REQUIRED	PRELIMINARY
	HIDDEN DAMAGE
	IN-PROCESS
	FINAL

I CERTIFY THAT THIS HAS BEEN REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FAA REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE.

INSPECTED BY: _____

QT	PART NUMBER & DESCRIPTION	PRICE EA	TOTAL	REGISTERED NAME	DATE:
1	6AL507 PN: 5H1002089			D + S Aviation	10/17/19
1	6SA2B PN: 5G9003986			Dalton, Perry, and	A/C REG NO N4765N
	6SA 2B PN: 5G9004224			Slidell, LA 70665-8101	A/C MAKE CESSNA
	6SA 2B PN: 5G9004251			PHONE [REDACTED]	A/C MODEL 182Q
1	65 AI HSI PN: 4JQ030908			ATTN [REDACTED]	A/C SER NO 18267348
1	INSTALL KIT w/ TRIM			HRS	SERVICE PERFORMED
1	MISC SHOP SUPPLIES			1	Removed ARC AP300A. SYSTEM.
1	GAD 29B (5DL007600)				INSTALLED COPILOT GS AND GFL500
1	GMU 11 (56J013943)				WITH AUTOTRIM.
PARTS TOTAL					

PAID
11/04/19
CK# 1218

SHIPPING	
FROM: GARYIN	69 72
SHIPPING TOTAL	69 72

I HEREBY ACKNOWLEDGE THAT BY LEAVING THE ARTICLE OR A DEPOSIT I AM AUTHORIZING THE ABOVE LISTED WORK, ALONG WITH THE REQUIRED MATERIALS, THIS FACILITY MAY MAKE ALL NECESSARY CHECKS TO DETERMINE THE AIRWORTHINESS OF THE ARTICLE. AN EXPRESS MECHANIC'S LIEN IS HEREBY ACKNOWLEDGED ON THE ABOVE ARTICLE OR JOB SCOPE TO SECURE AMOUNT DUE.

X

*Sales Tax will be collected unless you have a valid Texas Resale Certificate on-file with us

SERVICE

LABOR

PARTS

SUBLET

SHIPPING

TAX*EXEMP

TOTAL DUE

Deposit -

Balance \$1

Thank You!

FAA CRS# Y4XR461Y

18000 GROESCHKE ROAD
HANGAR 1-E

HOUSTON, TEXAS 77084

(281) 647-9600 fax (281) 647-9899

NO.: 13722

INITIAL AS REQUIRED	PRELIMINARY	
	HIDDEN DAMAGE	
	IN-PROCESS	
	FINAL	

I CERTIFY THAT THIS _____
HAS BEEN REPAIRED AND INSPECTED IN ACCORDANCE WITH
CURRENT FAA REGULATIONS AND IS APPROVED FOR RETURN TO
SERVICE.

INSPECTED BY: _____

[illegible]

SHIPPING		
SHIPPING TOTAL		

I HEREBY ACKNOWLEDGE THAT BY LEAVING THE ARTICLE OR A DEPOSIT I AM AUTHORIZING THE ABOVE LISTED WORK, ALONG WITH THE REQUIRED MATERIALS. THIS FACILITY MAY MAKE ALL NECESSARY CHECKS TO DETERMINE THE AIRWORTHINESS OF THE ARTICLE. AN EXPRESS MECHANIC'S LIEN IS HEREBY ACKNOWLEDGED ON THE ABOVE ARTICLE OR JOB SCOPE TO SECURE AMOUNT DUE.

X

*Sales Tax will be collected unless you have a valid Texas Resale Certificate on-file with us

SERVICE		
LABOR		
PARTS		
SUBLET		
SHIPPING		
TAX*		
TOTAL DUE		



General Avionics, Inc.

18000 Groeschke Rd. 1-E
Houston, Texas 77084
281/647-9600 fax 281/647-9899

N4765N

Quote No.

5

SALES QUOTE

Employee

Name	JAMES WURMAN JR	Emp #	1
Position	MANAGER	Region	US-Texas
Department	Shop	Manager	James Wurman

Dates

First Contact	_____
Quote Issued	_____
Accept/Reject	_____

Product/Service Name	Quantity	Price	TOTAL
INSTALL GARMIN GFC 500 W/ AUTOTRIM			
<i>PERRY</i> <i>LANGFORD</i>			
GARMIN GFC AP GMC 507	1		
GARMIN GSA 28 SERVOS	3		
INSTALL KIT	1		

Customer

Customer	_____	Company	_____
Address	_____		_____
City	_____	State	_____
ZIP	_____	Email	_____
Phone	_____	Fax	_____

Sub Total

Discount	_____
Taxes	_____
Sales Tax	_____
Labor	_____
TOTAL	_____

Status

☒ Established Customer ☐ New Customer ☐ Prospective Customer

Notes

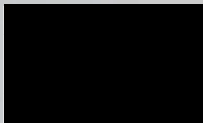
TAXES: Sales Tax of 8.25% will be computed on equipment only, unless your company has a Texas Resale Certificate on file with us.

PAYMENT: 100% of Equipment Quote due upon acceptance of quote, balance due upon completion.

GARMIN

G5 Certified Product Registration & STC Permission

To complete the installation of the Garmin G5 in a certified aircraft, register the new Garmin G5 online at fly.garmin.com/fly-garmin/g5-registration, or call the toll-free number listed below for registration assistance. Upon registering, you will receive the required STC and STC Approval Letter specific to this installation. Please enter the code below when prompted. Keep this document for your records.



Garmin International, Inc.
1200 East 151st Street, Olathe, Kansas 66062, U.S.A.
Toll free: 888-606-5482
Phone: 913/397.8200 FAX: 913/397.0836

Garmin AT, Inc.
2345 Turner Road SE, Salem, OR 97302, U.S.A.
Toll free: 800/525.6726
Phone: 503/391.3411 FAX: 503/364.2138

Garmin Europe Ltd.
Liberty House, Hounsdown Business Park
Southampton, Hampshire, SO40 9LR, U.K.
Phone: +44 (0) 37 0850 1243

190-02123-00 Rev D

PLEASE READ. DO NOT DISCARD.

Registration Card, G5



GARMIN P/N:
010-12493-20



MADE IN TAIWAN

GARMIN

warranty registration card

N4765N

product

serial number

purchase date

GMC507

5H1002089

GSA28

5G9003986

GSA28

5G9004224

GSA28

5G9004251

G5 HSI

4JQ030908

GAD29B

5DL007600

GNU11

56J013943



U.S. Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020
11/30/2007

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 US N4765N	Serial No. 18267348	
	Make CESSNA	Model 182Q	Series
2. Owner	Name (As shown on registration certificate) D@S AVIATION	Address (As shown on registration certificate) SULPHUR, LA 70665	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	☒	AIRFRAME		(As described in Item 1 above)	
☐	☐	POWERPLANT			
☐	☐	PROPELLER			
☐	☐	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address General Avionics, Inc. 18000 Groeschke Road Hangar 1-E Houston, TX 77084 USA	B. Kind of Agency	
	☐ U. S. Certificated Mechanic	☐ Manufacturer
	☐ Foreign Certificated Mechanic	☐ C. Certificate No.
	☒ Certificated Repair Station	☐ CRS# Y4XR461Y General Avionics, Inc. 18000 Groeschke Rd.
☐ Certificated Maintenance Organization		

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 ☐	Signature/Date of Authorized Individual JAMES W WURMAN JR 26-June-2017
--	---

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

FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
BY FAA Designee	☒ Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. Y4XR461Y	Signature/Date of Authorized Individual General Avionics, Inc. 26-June-2017		

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.)

US N4765N

Jun-26-2017

Nationality and Registration Mark

Date

A. Removed equipment as listed on revised Weight and Balance this date.

B. Installed aa ASPEN 1000 PRO.

Interfaced with existing ARC 300A Autopilot. This installation was performed in accordance with or the following manuals were referenced during the installation: ASPEN STC#SA10822SC IM # 900-000003-001 REV BR

D. All installed equipment was function tested to MPS this date for proper operation.

E. Aircraft Weight and Balance revised this date.

F. Instructions for Continued Airworthiness placed in aircraft records

G. FAA Approved Flight Manual Supplement provided to aircraft owner.

-----END-----

☐ 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
11/30/2007

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 US N4765N	Serial No. 18267348	
	Make CESSNA	Model 182Q	Series
2. Owner	Name (As shown on registration certificate) D&S AVIATION	Address (As shown on registration certificate) SULPHUR, LA 70665	

3. For FAA Use Only

4. Type

5. Unit Identification

Repair	Alteration	Unit	Make	Model	Serial No.
☐	☒	AIRFRAME		(As described in Item 1 above)	
☐	☐	POWERPLANT			
☐	☐	PROPELLER			
☐	☐	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address General Avionics, Inc. 18000 Groeschke Road Hangar 1-E Houston, TX 77084 USA	B. Kind of Agency ☐ U. S. Certificated Mechanic ☐ Foreign Certificated Mechanic ☒ Certificated Repair Station ☐ Certificated Maintenance Organization	C. Certificate No. CRS# Y4XR461Y General Avionics, Inc. 18000 Groeschke Rd.
---	--	---

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 ☐

Signature/Date of Authorized Individual

JAMES W. WURMAN JR.
26-June-2017

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

FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
BY	FAA Designee ☒	Repair Station	Inspection Authorization
		Other (Specify)	

Certificate or Designation No.
Y4XR461Y

Signature/Date of Authorized Individual

General Avionics, Inc.
26-June-2017

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.)

US N4765N

Jun-26-2017

Nationality and Registration Mark

Date

- A. Installed a Garmin GTX 345.
- B. This installation was performed in accordance with or the following manuals were referenced during the installation: Garmin AT, Inc. STC SA01714WI.
- C. All installed equipment was function tested to MPS this date for proper operation.
- D. Aircraft Weight and Balance revised this date.
- E. Instructions for Continued Airworthiness placed in Aircraft Records.
- F. FAA Approved Flight Manual Supplement provided to aircraft owner.

END

☐ ADDITIONAL SHEETS ARE ATTACHED



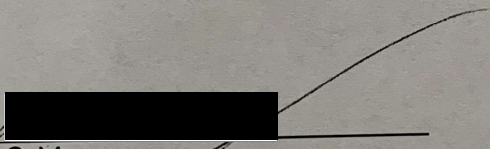
Garmin International, Inc.
1200 East 151st Street
Olathe, Kansas 66062
P: 913-397-8200 F: 913-397-8282

June 26, 2017

**Subject: Permission to Use FAA STC SA01818WI or EASA STC 10060846 for
Installation of Garmin G5 Electronic Flight Instrument
See Approved Model List (AML) for Approved Aircraft Models**

Pursuant to 49 U.S.C. 44704, 14 CFR § 21.120, 14 CFR § 91.403(d), FAA Order 8110.48 and FAA Advisory Circular 21-40; Garmin International, Inc. hereby grants permission to DALTON LANGFORD owner/operator of CESSNA 182Q bearing manufacturer's serial number 18267348 to use FAA Supplemental Type Certificate SA01818WI and deliverable data associated with it, for the sole and express purpose of installation and approval of the installation of a Garmin G5 Electronic Flight Instrument into the above referenced aircraft. Installer must still verify airframe eligibility per STC SA01818WI and the associated Approved Model List (AML). Following modification per STC SA01818WI, a copy of this permission letter should be placed in the aircraft's permanent records. Alteration or reproduction of this letter is strictly prohibited.

For Aircraft registered in an EASA state, EASA STC **10060846** (EASA Validation of US FAA STC SA01818WI) may be used in the same manner as STC SA01818WI, provided the aircraft is listed on the AML for STC SA01818WI and the aircraft also has a EASA Type Certificate.


Robert G. Murray
Director, Aircraft Certification
Garmin International, Inc.

Sparrow Inspections LLC

CRS XXVR919L

Altimeter Inspection FAR 91.411

W.O.# 8647 Date 5-1-2020 N# 4765N
Manf. Aspen P/N EFD 1000 S/N 24833
A.D. N/A C/W N/A

Baro Scale Error

Pressure	Diff.	Desired	Actual
28.1	-1727	-1567	-1560
28.5	-1340	-1180	-1185
29.0	-863	-703	-700
29.5	-392	-232	-230
29.9	0	+160	+165
30.5	531	+691	+700
30.9	893	+1053	+1060
31.0	974	+1034	+1150

Scale Error Test

- A. set altimeter to 29.92
B. Reduce pressure to each level
C. Hold 1 to 10 min.
D. Record actual readings on Chart II
E. Verify within tolerance limits 24

Case Leak Tolerance

+/- 100' @18K ft. 23

Hysteris Test

50% of cert. alt. Hold 5 min. 60
+/- 75 ft.
40% of cert. alt. Hold 1 min. 50
+/- 75 ft.

After Effect tol. +/- 30 ft.

Within 5 min. of Hysteris Test 10

Friction Test

- A. Decrease alt. at rate of 750 fpm
B. Stop at altimeter points on Chart III
C. Vibrate altimeter
D. Record error & verify within limits N/A

Completion

Remove old tags N/A
Install new tag N/A
Paint drum as required N/A
Check pitot heat N/A
Check lighting N/A

Chart II

Test Point Tol.	+/-	Error
-1000	20	N/A
0	20	-15
500	20	0
1000	20	0
1500	25	0
2000	30	0
3000	30	+10
4000	35	+15
6000	40	+25
8000	60	+35
10000	80	+45
12000	90	+55
14000	100	+75
16000	110	+85
18000	120	+95
20000	130	+110
22000	140	/
25000	155	/
30000	180	/
35000	210	/

Chart III

Test	+/-	Error
1000	70	30
2000	70	35
3000	70	
5000	70	
10000	80	Aspen
15000	90	
20000	100	
25000	120	/
30000	140	/
35000	160	/

Date 5-1-2020
Inspector [Redacted]
For Sparrow Inspections LLC
(318)286-1152
Sparrowinspections@att.net

TIA

591.46
TACH

Sparrow Inspections LLC

CRS XX9R919L

Altimeter Inspection FAR 91.411

W.O.# 8647 Date 5-1-2020 N# 4765N
Manf. UNITED P/N 5934P-1-A S/N R7436
A.D. N/A C/W N/A

Baro Scale Error

Pressure	Diff.	Desired	Actual
28.1	-1727	-1567	-1585
28.5	-1340	-1180	-1200
29.0	-863	-703	-715
29.5	-392	-232	-250
29.9	0	+160	+150
30.5	531	+691	+680
30.9	893	+1053	+1045
31.0	974	+1034	+1030

Chart II		
Test Point	Tol, +/-	Error
-1000	20	N/A
0	20	0
500	20	0
1000	20	0
1500	25	+5
2000	30	+10
3000	30	-5
4000	35	-15
6000	40	-30
8000	60	-40
10000	80	-40
12000	90	-40
14000	100	-25
16000	110	-20
18000	120	-10
20000	130	-5
22000	140	/
25000	155	/
30000	180	/
35000	210	/

Scale Error Test

- set altimeter to 29.92
- Reduce pressure to each level
- Hold 1 to 10 min.
- Record actual readings on Chart II
- Verify within tolerance limits

Case Leak Tolerance

+/- 100' @18K ft.

23

Hysteresis Test

50% of cert. alt. Hold 5 min.

+/- 75 ft.

10

40% of cert. alt. Hold 1 min.

+/- 75 ft.

15

After Effect tol. +/- 30 ft.

Within 5 min. of Hysteresis Test

20

Friction Test

- Decrease alt. at rate of 750 fpm
- Stop at altimeter points on Chart III
- Vibrate altimeter
- Record error & verify within limits

Chart III		
Test	+/-	Error
1000	70	30
2000	70	35
3000	70	35
5000	70	45
10000	80	50
15000	90	55
20000	100	55
25000	120	/
30000	140	/
35000	160	/

Completion

Remove old tags N/A
Install new tag N/A
Paint drum as required N/A
Check pitot heat N/A
Check lighting N/A

Date 5-1-2020
Inspector [Signature]
For Sparrow Inspections LLC
(318)286-1152
Sparrowinspections@att.net

TIA

SPARROW INSPECTIONS LLC
CRS XXYR919L

91.413 TRANSPONDER INSPECTION

MFG GARMIN MODEL GTX345 S/N 3EG007537

Check current listing for Airworthiness Directives A.D.# N/A C/W N/A

Mode A

Allow proper warm up time and squawk 0000

"Ident" and record time in seconds

Select type of transponder on ATC 6000 and run test

(pass)

If Failed list errors

Record the following:

MTL -70.5 dbm Record Freq 1089.98 Mhz Record Power Out 135 Watts

Mode C

Check for accuracy at 500 1500 5K 20K Max

Ensure Mode C info is lost when Alt is not selected

If Failed list errors

Mode S Type Transponders

Record the following:

If Failed list errors

Record N Number being transmitted

Date 5-1-2020 W.O. # 8647 N# 4765N Tech N4765N

Sparrow Inspections LLC 477 Norwood Rd. Mansfield, La. 71052 (318)872-4354
(318)286-1152

Beard's Aircraft Services, LLC

9852 Robinson Road
Bell City, LA 70630

Phone/Fax # 337-598-4773

Cell # [REDACTED]

Invoice

Date	Invoice #
3/23/2020	1632

Bill To
D & S Aviation, Inc. [REDACTED] Sulphur, LA 70665-8707

Terms	Project
Due on receipt	20-105

Part Number	Description	Qty	Rate	Amount
	N4765N			
	Annual Inspection	1	[REDACTED]	[REDACTED]
	100 Hour Inspection	1	[REDACTED]	[REDACTED]
AA48108-2	Oil Filter	1	[REDACTED]	[REDACTED]
OIL	Aeroshell W100 Plus	10	[REDACTED]	[REDACTED]
BA8103-1	Bracket aero BA8103-1 element	1	[REDACTED]	[REDACTED]
SA-1231064-1	Vertical top SA-1231064-1	1	[REDACTED]	[REDACTED]
AB3E4	Air Hawk 600-6 6ply tire	1	[REDACTED]	[REDACTED]
SA-0731606-9	Rudder cap	1	[REDACTED]	[REDACTED]
641250	Crankshaft seal	1	[REDACTED]	[REDACTED]

Thank you for your business.	Subtotal	[REDACTED]
	Sales Tax (10.2%)	[REDACTED]
	Total	[REDACTED]
	Payments/Credits	[REDACTED]
	Balance Due	[REDACTED]

Please make checks payable to:
Beard's Aircraft Services, LLC

Equipment List for N4765N

Company
Address
City, State Zip
Phone
Fax

Beard's Aircraft Services, LLC
9852 Robinson Rd
Bell City LA 70630-3205

Airframe

Make	CESSNA AIRCRAFT CORP.	Current time	3114.4 Tach Reads: 586.3
Model	182Q	Total time	3114.4
Serial number	18267348	Certification date	
Notes:			

Engine 1

Make	TELEDYNE CONTINENTAL MOTORS	Location	
Model	O-520-U-TS	Total time	2461.5
Serial Number	Orig. 286734-R Mod Ser. 5U210	TSMOH	586.3
Notes:	This engine modified from original O-470-U to O-520-U-TS IAW STC SE09773SC. Engine installed onto aircraft IAW STC SA09026SC. AD research performed on IO-520 series IAW TCM, Texas Skyways, and RAM Aircraft technical data.		

Prop 1

Make	HARTZELL	Blade	#1-K83849, #2-K83847, #3-K83845
Model	HC-G3YF-1RF/F8068	Total Time	562.99
Serial Number	LC10B	TSMOH	562.99 TTSN
Hub Notes	This propeller installed on aircraft IAW STC SA09026SC.		

Appliances

AIR FILTERS	Brackett Air Filter	BA8110	
	Serial # Element BA-8103-1	Part #	Location
	Notes: Replaced this annual		
ALTERNATORS	Plane Power	AL24-F6OC 24 volt	
	Serial # 4694010	Part #	Location
	Notes:		
AUTOPILOTS	Cessna	300A Novomatic	
	Serial # 7269	Part # 42660-2202	Location
	Notes:		
BATTERIES	GILL	G-243S	
	Serial # GO2792839	Part #	Location
	Notes: installed 8/30/16		
BEACONS	Aeroflash/Cessna	Strobe	
	Serial # 781967	Part # C622008-0102	Location Right
	Notes: Flash tube p/n C622006-0108		
BRAKES	McCauley Industrial Corp	C-30018 5	
	Serial # 010814	Part #	Location Left
	Notes:		

Equipment List for N4765N

CARBURETORS	Marvel Schebler/Prec. Air/Texas	MA-4-5 MOD	
	Serial # VC152502/Texas Sky s/n SU210 Notes: This Carburetor was modified IAW STC SE09773SC	Part # 641139	Location
CONVERSIONS	Texas Skyways	Engine Mount	
	Serial # TSI1115 Notes:	Part # 71-20-01	Location
	Texas Skyways	Engine Mount Heat Shields	
	Serial # None Notes:	Part # STC SA09964SC	Location
	J. P. Instruments	EDM 700	
	Serial # 28582 Notes:	Part # EGT 701-6C	Location
ELT'S	Rosen Product Development	Sun Visors	
	Serial # none Notes:	Part #	Location
	Cessna/Dorne & Margolin, Inc	DM ELT 6.1	
FUEL TRANSDUCERS	Serial # 40197 Notes:	Part # Battery BP-1020	Location
	J. P. Instruments	AS 407B transducer	
	Serial # 172212 Notes: Installed IAW STC SA00432SE	Part # 700900-2	Location
IGNITION SWITCHES	Cessna/Gerdes	A-510	
	Serial # none Notes:	Part # C29501-0105	Location
INSTRUMENTS	Electric Gyro Corp	1394T100 T&B	
	Serial # A-823-442 Notes:	Part #	Location
	Cessna	Altimeter 20K	
	Serial # R7436 Notes:	Part # 5934P-1A.56	Location
	Garmin	G-5 Altitude Indicator	
	Serial # 4JQ009001 Notes:	Part #	Location
	Aspen	EFD 1000	
	Serial # 24833 Notes:	Part #	Location
	Garmin	GTN 750	
	Serial # unk Notes:	Part #	Location

Equipment List for N4765N

MAGNETOS

Slick	6310		
Serial # 09010095	Part #	R rot Rev C	Location
Notes:			

Slick	6301		
Serial # 09010096	Part #	R tot Rev C	Location Right
Notes:			

RADIO EQUIPMENT

ARC	RT-385A		
Serial # 21699	Part #	46660-1000	Location
Notes:			

Sigtronics 4 Place Intercom	SPS-400 TSO		
Serial # CFBBX	Part #		Location
Notes:			

Garmin	GTX345		
Serial # 3EG007537	Part #		Location
Notes:			

SAFETY BELTS

Cessna	Seat Belts		
Serial # none	Part #		Location
Notes:			

STARTERS

Kelly Aerospace	28 volt starter		
Serial # G081010	Part #		Location
Notes:			

Airworthiness Directive Compliance Record

AIRCRAFT RECORDS - DO NOT DESTROY

airframe

Company Beard's Aircraft Services, LLC
Manufacturer CESSNA AIRCRAFT CORP.
Model 182Q
Tail # N4765N
Serial # 18267348
Current Time 3114.4 Tach Reads: 586.3
Total Time 3114.4
A/C Cert. Date

77-02-09 02/03/77 WING FLAP SYSTEM/

Method of Compliance Not Applicable to this serial numbered aircraft.

SB # Date N/A

Next Due N/A

Notes

Signature

Cert. #

77-12-08 06/27/77 EXTERNAL ELECTRIC GROUND POWER RECEP./

Method of Compliance Not Applicable to this serial numbered aircraft.

SB # Date N/A

Next Due N/A

Notes

Signature

Cert. #

77-14-09 07/18/77 AIRCRAFT CONTROLABILITY/

Method of Compliance Not Applicable to this serial number and overhaul date.

SB # Date N/A

Next Due N/A

Notes

Signature

Cert. #

77-23-11 11/28/77 ELT INSTALLATION/

Method of Compliance Not Applicable to this installation type.

SB # Date N/A

Next Due N/A

Notes

Signature

Cert. #

78-01-14 01/23/78 ELT INSTALLATION/

Method of Compliance Not Applicable to this installation type.

SB # Date N/A

Next Due N/A

Notes

Signature

Cert. #

79-08-03 06/06/79 CIGAR LIGHTER WIRING MODIFICATION/

Method of Compliance Not Applicable to this serial numbered aircraft.

SB # Date N/A

Next Due N/A

Notes

Signature

Cert. #

79-25-07 12/13/79 ALTERNATOR GROUND STRAP/

Method of Compliance Not Applicable to this serial numbered aircraft.

SB # Date N/A

Next Due N/A

Notes

Signature

Cert. #

Prepared by

Date

3/5/2020

Airworthiness Directive Compliance Record

***83-13-01** 08/01/83 PLACARD-IMPROPER FUEL CAP SEALING/

Method of Compliance Not Applicable to this serial numbered aircraft.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

83-17-06 09/01/83 AILERON BALANCE WEIGHTS/

Method of Compliance Not Applicable. STC not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

83-22-06 11/08/83 AILERON HINGE PIN/

Method of Compliance Previously Complied With. Verified this date.

SB # SE83-18

Date 8/7/10 2838.23

Next Due One Time

Notes Within the next 100 hours time in service, after the effective date of this AD, visually inspect each aileron hinge (6 total) for correct location of the cotter pin in accordance with Figure 1. of this AD or Cessna Service Information Letter SE83-18 dated July 29, 1983.

Signature

Cert. # A&P

***84-10-01 R1** 07/05/88 BLADDER FUEL CELLS AND QUICK DRAINS/

Method of Compliance Not Applicable to this serial numbered aircraft.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

86-24-07 01/07/87 ENGINE CONTROL ATTACHMENT MODIFICATION/

Method of Compliance Not Applicable to this serial numbered aircraft.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

97-01-13 02/03/97 S51-10 TYPE OIL, FUEL AND HYDRAULIC HOSES/

Method of Compliance Not Applicable due to date of engine overhaul.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

98-16-04 09/21/98 ANGLE STIFFENER/

Method of Compliance Not Applicable. STC not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

00-06-01 05/05/00 FUEL STRAINER ASSEMBLY/

Method of Compliance Not Applicable. Part not replaced between affected dates.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

Prepared by

Date

Airworthiness Directive Compliance Record

07-09-01 04/25/07 FUEL AND ELECTRICAL SYSTEM MODIFICATIONS IN/AW STC

SA00152WI/

Method of Compliance Not Applicable. STC not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

08-02-18 02/28/08 PARACHUTE SYSTEM PICK-UP COLLAR SUPPORT AND SCREWS/

Method of Compliance Not Applicable. BRS not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

08-10-02 05/12/08 ALTERNATE STATIC AIR SOURCE SELECTOR VALVE/

Method of Compliance Not Applicable. Part not installed after date indicated.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

08-26-10 01/05/09 PLACARD, ALTERNATE STATIC AIR SOURCE SELECTOR VALVE ID

PLACARD/

Method of Compliance Not Applicable. Affected part not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

***09-04-05** 03/27/09 ENGINE INTERCOOLER INLET AND OUTLET AIR HOSE ASSEMBLIES/

Method of Compliance Not Applicable. Diesel engine not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

***11-10-09** 06/17/11 SEAT TRACK WEAR AND SEAT PIN ENGAGEMENT/

Method of Compliance Inspect seat tracks, pins, and tangs. No defects noted

SB # SAIB CE-04-01, 09-10, 90-03-R2

Date 3/5/2020 Tach: 586.3

Next

Due 3/21 or Tach: 686.3

Notes This AD recurs at intervals not to exceed every 100 hrs TIS or every 12 months, whichever occurs first.

Signature

Cert. # A&P

Prepared by

Date

3/5/2020

Airworthiness Directive Compliance Record

AIRCRAFT RECORDS - DO NOT DESTROY

engine

Company Beard's Aircraft Services, LLC
 Manufacturer TELEDYNE CONTINENTAL MOTORS
 Model O-520-U-TS
 Location
 Serial # Orig. 286734-R Mod Ser. 5U210
 TSMOH 586.3
 Total Time 2461.5

79-05-09 03/12/79 OIL PRESSURE RELIEF VALVE PLUNGER AND SCREW/

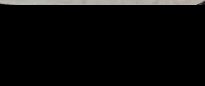
Method of Compliance Previously Complied With at mod/overhaul.

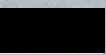
SB # M79-2 Rev 1

Date 7/3/09 1875.2

Next Due One Time

Notes

Signature 

Cert. # A&P 

80-01-04 01/25/80 CYLINDER HOLDDOWN FLANGES/

Method of Compliance Not Applicable. New ECI cylinders installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

*81-24-06 11/23/81 ENGINE DRIVEN FUEL PUMP THROUGH BOLTS/

Method of Compliance Not Applicable. Fuel pump not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

*86-13-04 R3 02/24/88 CYLINDER BARREL CRACKING/

Method of Compliance Not Applicable. New ECI cylinders installed at o/h.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

87-14-02 10/05/87 STARTER ADAPTER SHAFTS/

Method of Compliance Not Applicable. Affected part not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

88-03-06 04/15/88 TCM PRO-TECH ENGINE OIL FILTER/

Method of Compliance Not Applicable. Newer oil filter installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

88-17-03 08/10/88 STARTER ADAPTER DRIVE SHAFT/

Method of Compliance Not Applicable. Air conditioner not installed.

SB #

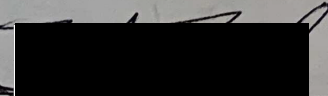
Date N/A

Next Due N/A

Notes

Signature

Cert. #

Prepared by 

Date

3/5/2020

Airworthiness Directive Compliance Record

91-19-03 09/29/91 CHAMPION ENGINE OIL FILTER/

Method of Compliance Not Applicable. Newer oil filter installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

93-08-17 08/23/93 OIL PICK-UP TUBE INSPECTION/

Method of Compliance Not Applicable to this serial numbered engine and DOM.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

93-10-02 08/12/93 CYLINDER VALVE RETAINER KEY/

Method of Compliance Not Applicable due to DOM.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

93-16-15 12/14/93 FUEL PUMP DRIVE SHAFT COUPLING/

Method of Compliance Not Applicable. Fuel pump not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

***95-03-14** 03/13/95 INSPECTION OF ENGINE MOUNT BRACKETS/

Method of Compliance Not Applicable. STCd engine mount and new vibration isolators installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

95-21-15 11/28/95 ENGINE TEARDOWN AND INSPECTION/

Method of Compliance Not Applicable to this N numbered aircraft.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

***96-12-22** 07/31/96 OIL FILTER ADAPTER ASSEMBLY NUT/

Method of Compliance Not Applicable. Affected assembly not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

***97-26-17** 01/23/98 AIRMELT CRANKSHAFT/

Method of Compliance Not Applicable. Affected crankshaft not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

98-01-08 12/23/97 EXHAUST ROLLER BEARING ROCKER ARMS/

Method of Compliance Not Applicable. Affected parts not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

Prepared by

Date

3/5/2020

Airworthiness Directive Compliance Record

98-17-11 10/19/98 CRANKSHAFT CRACKS/

Method of Compliance Not Applicable. Affected part not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

99-19-01 09/30/99 CRANKSHAFT CHEEK CRACKS/

Method of Compliance Not Applicable. STCd engine installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

00-23-21 12/12/00 CRANKSHAFT CONNECTING ROD JOURNAL/

Method of Compliance Not Applicable due to s/n and DOM.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

04-08-10 05/05/04 ENGINE COMPONENTS, INC. STC'D CYLINDERS/

Method of Compliance Not Applicable to installed s/n cylinders (F stamped on flange).

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

07-04-19 R1 05/07/07 SUPERIOR AIR PARTS, INC. CAST CYLINDER ASSEMBLIES/

Method of Compliance Not Applicable. Affected parts not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

***09-19-07** 10/07/09 EQ3 CYLINDER HEAD ASSEMBLIES/

Method of Compliance Not Applicable. Affected cylinders not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

10-11-04 06/16/10 HYDRAULIC VALVE LIFTERS/

Method of Compliance Not Applicable. Affected parts not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

12-03-06 02/24/12 AFS FUEL SERVO DIAPHRAGM/

Method of Compliance Not Applicable. Affected part not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

***14-05-29** 04/25/14 SUPERIOR AIR PARTS INVESTMENT CAST CYLINDER ASSEMBLIES/

Method of Compliance Not Applicable. Affected part not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

Prepared by

Date

3/5/2020

Airworthiness Directive Compliance Record

16-16-12 09/15/16 ECI CLASS 71 OR CLASS 76 CYLINDER ASSEMBLY FAILURES/
Method of Compliance Not Applicable. p/n 714R FAA/PMA ECI cylinders installed.
SB # Date N/A Next Due N/A
Notes Cert. #
Signature

Prepared by

Date

3/5/2020

Airworthiness Directive Compliance Record

AIRCRAFT RECORDS - DO NOT DESTROY

propeller

Company Beard's Aircraft Services, LLC
Manufacturer HARTZELL
Model HC-G3YF-1RF/F8068
Location
Tail # N4765N
Serial # LC10B
Blade #1-K83849, #2-K83847, #3-K83845
TSMOH 562.99 TTSN
Total Time 562.99

01-07-03 06/04/01 PROPELLERS RETURNED TO SERVICE BY BASCO/

Method of Compliance Not Applicable. Basco didn't work on this propeller.
SB # Date N/A Next Due N/A
Notes
Signature Cert. #

03-13-17 07/18/03 MAINTENANCE REPAIR BY T AND W PROPELLERS, INC./

Method of Compliance Not Applicable. T&W didn't work on this propeller.
SB # Date N/A Next Due N/A
Notes
Signature Cert. #

05-14-11 08/17/05 MAINTENANCE AND REPAIR BY SOUTHERN CALIFORNIA

PROPELLER SERVICE/
Method of Compliance Not Applicable. SCPS didn't work on this propeller.
SB # Date N/A Next Due N/A
Notes
Signature Cert. #

07-26-09 01/30/08 PLACARD, PROPELLER BLADE SHANK REWORK/

Method of Compliance Not Applicable to installed s/n blades.
SB # Date N/A Next Due N/A
Notes
Signature Cert. #

*08-13-28 07/17/08 PROPELLER HUB LUBRICATION HOLES/

Method of Compliance Not Applicable by part number.
SB # Date N/A Next Due N/A
Notes
Signature Cert. #

Prepared by

Date

3/5/2020

Airworthiness Directive Compliance Record

AIRCRAFT RECORDS - DO NOT DESTROY

appliances

Company Beard's Aircraft Services, LLC
Tail # N4765N

63-22-03 12/02/63 PRECISION AIRMOTIVE (FORMERLY FACET, MARVEL SCHEBLER)
MA-4 SERIES CARBURETORS

CARBURETOR MAIN AND PRIMARY VENTURI/

Method of Compliance Not Applicable. This carb modified IAW STC SE09773SC

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

69-24-03 11/29/69 PRECISION AIRMOTIVE (FORMERLY FACET, MARVEL SCHEBLER)
MA-4 SERIES CARBURETORS

CARBURETOR DRAIN PLUG AND CAVITY/

Method of Compliance Not Applicable to installed p/n carburetor.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

72-06-05 R2 07/03/86 PRECISION AIRMOTIVE (FORMERLY FACET, MARVEL SCHEBLER)
MA-4 SERIES CARBURETORS

CARBURETOR THROTTLE ARM ATTACHMENT/

Method of Compliance Not Applicable. Affected throttle arm not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

***74-18-05** 08/28/74 SLICK ELECTRO, INC.
MAGNETOS

MAGNETO IMPULSE COUPLING/

Method of Compliance Not Applicable due to DOM

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

75-12-07 06/06/75 MCCAULEY
PROPELLER GOVERNORS DCF290D, DCFS290D, DCFU290D,

DCFUS290D

PROPELLER GOVERNORS/

Method of Compliance Not Applicable. Affected p/n not installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

Prepared by

Date

3/5/2020

Airworthiness Directive Compliance Record

80-06-05

03/28/80

**SLICK ELECTRO, INC.
MAGNETOS**

MAGNETOS/

Method of Compliance

Not Applicable. Affected magnetos not installed. 6310 mags installed.

SB #**Date** N/A**Next Due** N/A**Notes****Signature****Cert. #****81-16-05**

08/06/81

**SLICK ELECTRO, INC.
MAGNETOS**

MAGNETO COIL/

Method of Compliance

Not Applicable. Affected magnetos not installed. 6310 mags installed.

SB #**Date** N/A**Next Due** N/A**Notes****Signature****Cert. #****81-19-04**

09/17/81

**RAJAY CORP.
HOSE ASSEMBLY PER STC MODIFICATION**

POWERPLANT FUEL, AIR, AND OIL HOSE ASSEMBLIES/

Method of Compliance

Not Applicable. Affected hoses not installed.

SB #**Date** N/A**Next Due** N/A**Notes****Signature****Cert. #****89-04-02**

03/08/89

**PRECISION AIRMOTIVE (FORMERLY FACET, MARVEL
SCHEBLER)
MA-4 SERIES CARBURETORS**

CARBURETOR AIR METERING STOP PIN/

Method of Compliance

Not Applicable to installed p/n carburetor.

SB #**Date** N/A**Next Due** N/A**Notes****Signature****Cert. #****93-19-04**

10/18/93

**PRECISION AIRMOTIVE (FORMERLY FACET, MARVEL
SCHEBLER)
MA-4 SERIES CARBURETORS**

CONSOLIDATED FUEL SYSTEMS FLOAT/

Method of Compliance

Not applicable to installed model carburetor.

SB #**Date** N/A**Next Due** N/A**Notes****Signature****Cert. #*****98-01-06**

02/13/98

**PRECISION AIRMOTIVE (FORMERLY FACET, MARVEL
SCHEBLER)
MA-4 SERIES CARBURETORS**

CARBURETOR 2 PIECE VENTURI/

Method of Compliance

Not Applicable. Affected venturi not installed.

SB #**Date** N/A**Next Due** N/A**Notes****Signature****Cert. #**

Prepared by

Date

3/5/2020

Airworthiness Directive Compliance Record

***99-04-04**

02/25/99

SLICK ELECTRO, INC.
MAGNETOS

MAGNETO IMPULSE COUPLING/
Method of Compliance

Not Applicable. Affected magnetos not installed. 6310 mags installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

11-26-07

01/24/12

SLICK ELECTRO, INC.
MAGNETOS

MAGNETO IMPULSE COUPLING STOP PIN/
Method of Compliance

Not Applicable. Affected magnetos not installed. 6310 mags installed.

SB #

Date N/A

Next Due N/A

Notes

Signature

Cert. #

Prepared by

Date

3/5/2020

THE
adlogTM

AIRCRAFT
MAINTENANCE
RECORDKEEPING
SYSTEM

**ENGINE
MAINTENANCE
RECORDS**

DATE

TOTAL
TIME
IN
SERVICETOTAL
TIME
SINCE
OVERHAULTACH OR
RECORDING
METER
TIME

TOTALS brought forward from previous page

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time
07-03-09	1875.2	00.0	

TIM

JACK JOHNSON

TCM O-470-U S/N 286734-R

The above referenced engine was modified and overhauled in accordance with Texas Skyways **STC SE09773SC** and **Dwg. No. TS000105, Rev. B dated 3-6-02**. The modified engine designation is **O-520-U/TS, s/n 5U210**. Assembled crankcase per **TCM O-470 Overhaul Manual X-30586A** and **O-470 Parts Manual X-30587A**. Assembled cylinders per **O-520 Overhaul Manual X-30039A** and **Parts Manual X-30040A**. Installed crankshaft p/n **TS-048001, s/n N01EA287**. Installed new ECI Titan Nickel cylinder assemblies and torqued per **O-470 Overhaul Manual and Parts Manual**. Accessories supplied were installed in their respective positions. See tags for details. C/W ultrasonic inspection per **MSB96-10A** due at next overhaul or when crankshaft removed. AD 99-19-01 n/a per crankshaft date of manufacture I/A/W TCM CSB99-3C. AD 2000-23-21 n/a to crankshaft serial number/date of manufacture I/A/W TCM Mandatory Service Bulletin MSB00-5C. AD 93-08-17 not applicable per oil pick-up tube p/n. C/W AD 79-05-09 per installation of new current design oil pressure plunger assy. AD 93-10-02 n/a per manufacture date. AD 2004-08-10 ECI cylinder inspection n/a per cylinder serial numbers and the letter F stamped on the flange. Slick **SB3-08A n/a** per s/n of magnetos installed. Category 1 thru 3 TCM Service Bulletin and AD Compliance Listing. See attachment. Engine was serviced with 20W50 Phillips Type M mineral oil. Ran in test cell for two (2.0) hrs. Engine preserved per Service Bulletin SIL99-1 temp. storage up to ninety (90) days. Engine approved for return to service. Pertinent details on file under Project No. 4777.

RAM Aircraft, Limited Partnership, P.O. Box 5219, Waco, Texas 76708 CRS VA1R551K

07/24/09, Tach: 0.00, Total Time: 1875.2, SMOH: 0.00 Hours. -----
Installed engine on Cessna 182Q, N4765N, S/N 18267348. Installation
accomplished in accordance with Texas Skyways STC SA09026SC, S/N
5U211. Service engine with Aeroshell 50 Mineral Oil. -----

Elgin A. Esensee A&P

Beard's Aircraft Services, LLC

9852 Robinson Road
Bell City, LA 70630

1/8/10 Reg.# N4765N Cessna 182Q

Tach Reads; 60.63 Aircraft Serial# 18267348

Engine; Texas Skyways O-520-U/TS S/N; 286734-R

Removed alternator, installed new FAA/PMA Plane Power alternator Model # AL24-F60C, Ser. # 4694010
24V. Test ran engine~alternator output is within specifications. Installation performed in accordance with Plane Power
installation instructions. For instructions for continued airworthiness, refer to documentation
In accordance with 14 CFR Part 43.9 the aircraft is approved for return to service.

Bruce A. Beard - A&P

Bruce A. Beard, Owner-A&P/IA

Phone/Fax: 337-598-4773, Mobile: 337-515-5643 Email: brucebeard@wb4me.com

CORROSION
Authorized Application Center

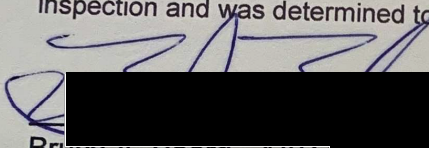
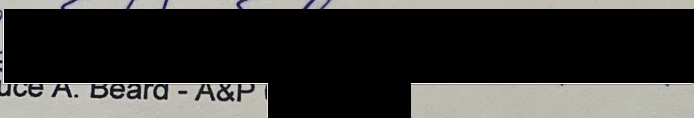
Beard's Aircraft Services, LLC
9852 Robinson Road
Bell City, LA 70630

/ORK

8/7/10 Reg.# N4765N Cessna 182Q
TCM/Texas Skyways Tach Reads; 110.13
Engine TT 1985.33 SMOH: 110.13 O470-U/O-520-U-TS S/N (286734-R Mod) 5U210

Completed 100hr inspection this date in accordance with 14 CFR Part 43 Appendix D, and O-470/520 inspection checklist. Cleaned, inspected, and checked gap on the spark plugs.
NOTE: IAW TCM, Texas Skyways, and RAM Aircraft, AD research (14CFR Part 39) was checked on this engine as an IO-520 series. Replaced all spark plug gaskets with new AN4027-1 gaskets. Torqued spark plugs to 35ft.lbs. Tested ignition cables, checked and synchronized magneto timing (22° BTC). Cylinder differential compression (IAW TCM SB03-3) test as follows; **#1 76/80; #2 74/80; #3 74/80; #4 76/80; #5 72/80; #6 75/80.** Borescope inspection revealed no apparent defects. Replaced oil temperature probe gasket with new. Treated the engine/engine compartment with **CorrosionX**. **All applicable AD's are in compliance.** Refer to AD compliance report in aircraft record for complete list of applicable AD's. Ground run engine and checked for leaks, none noted.

I CERTIFY this **ENGINE** has been inspected in accordance with a **100 HOUR** inspection and was determined to be in **AIRWORTHY** condition.


Bruce A. Beard - A&P 

Bruce A. Beard, Owner-A&P/IA

Phone/Fax: 337-598-4773, Mobile: 337-515-5643

Email: bruceabeard@wb4me.com

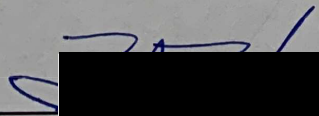
CORROSIONX
Authorized Application Center

Beard's Aircraft Services, LLC
9852 Robinson Road
Bell City, LA 70630

9/1/12 Reg.# N4765N Cessna 182Q
TCM/Texas Skyways Tach Reads; 290.8
Engine TT 2166 SMOH: 290.8 O470-U/O-520-U-TS S/N (286734-R Mod) 5U210

Completed 100hr inspection this date in accordance with 14 CFR Part 43 Appendix D, and O-470/520 inspection checklist. Cleaned, inspected, and checked gap on the spark plugs.
NOTE: IAW TCM, Texas Skyways, and RAM Aircraft, AD research (14CFR Part 39) was checked on this engine as an IO-520 series. Replaced all spark plug gaskets with new AN4027-1 gaskets. Torqued spark plugs to 35ft.lbs. Tested ignition cables, checked and synchronized magneto timing (22° BTC). Cylinder differential compression (IAW TCM SB03-3) test as follows; **#1 73/80; #2 72/80; #3 73/80; #4 73/80; #5 79/80; #6 75/80.** Borescope inspection revealed no apparent defects. Drained the oil and changed the filter with new CH48108-1 filter. Serviced the engine with 10 qts Aeroshell W100 Plus. Replaced the engine air filter with new BA-8103-1 element. Tightened oil temperature probe. **All applicable AD's are in compliance.** Refer to AD compliance report in aircraft record for complete list of applicable AD's. Ground run engine and checked for leaks, none noted.

I CERTIFY this **ENGINE** has been inspected in accordance with a **100 HOUR** inspection and was determined to be in **AIRWORTHY** condition.


Bruce A. Beard - A&P 

9/1/12

Bruce A. Beard, Owner-A&P/IA

Phone/Fax: 337-598-4773, Mobile: 337-515-5643

Email: bruceabeard@wb4me.com

CORROSIONX
Authorized Application Center

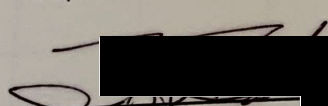
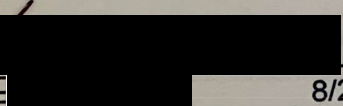
DATE

Beard's Aircraft Services, LLC
9852 Robinson Road
Bell City, LA 70630

8/26/11 Reg.# N4765N Cessna 182Q
TCM/Texas Skyways Tach Reads: 219.76
Engine TT 2094.96 SMOH: 219.76 O470-U/O-520-U-TS S/N (286734-R Mod) 5U210

Completed 100hr inspection this date in accordance with 14 CFR Part 43 Appendix D, and O-470/520 inspection checklist. Cleaned, inspected, and checked gap on the spark plugs. **NOTE: IAW TCM, Texas Skyways, and RAM Aircraft, AD research (14CFR Part 39) was checked on this engine as an IO-520 series.** Replaced all spark plug gaskets with new AN4027-1 gaskets. Torqued spark plugs to 35ft.lbs. Tested ignition cables, checked and synchronized magneto timing (22° BTC). Cylinder differential compression (IAW TCM SB03-3) test as follows; **#1 78/80; #2 76/80; #3 79/80; #4 79/80; #5 76/80; #6 79/80.** Borescope inspection revealed no apparent defects. Replaced the engine air filter with new BA-8103-1 element. Tightened oil temperature probe. **All applicable AD's are in compliance.** Refer to AD compliance report in aircraft record for complete list of applicable AD's. Ground run engine and checked for leaks, none noted.

I **CERTIFY** this **ENGINE** has been inspected in accordance with a **100 HOUR** inspection and was determined to be in **AIRWORTHY** condition.


Bruce A. Beard - A&P 

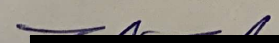
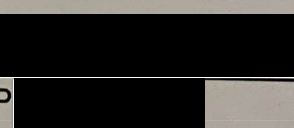
8/26/11

Beard's Aircraft Services, LLC
9852 Robinson Road
Bell City, LA 70630

10/2/13 Reg.# N4765N Cessna 182Q
TCM/Texas Skyways Tach Reads: 290.8
Engine TT 2209.73 SMOH: 334.53 O470-U/O-520-U-TS S/N (286734-R Mod) 5U210

Completed 100hr inspection this date in accordance with 14 CFR Part 43 Appendix D, and O-470/520 inspection checklist. **NOTE: IAW TCM, Texas Skyways, and RAM Aircraft, AD research (14CFR Part 39) was checked on this engine as an IO-520 series.** Cleaned, inspected, checked gap on the spark plugs. Torqued spark plugs to 35ft.lbs. Tested ignition cables, checked and synchronized magneto timing (22° BTC). Cylinder differential compression (IAW TCM SB03-3) test as follows; **#1 73/80; #2 73/80; #3 75/80; #4 74/80; #5 71/80; #6 73/80.** Borescope inspection revealed no apparent defects. Drained the oil and changed the filter with new CH48108-1 filter. Serviced the engine with 10 qts Aeroshell W100 Plus. Replaced the engine air filter with new BA-8103-1 element. **All applicable AD's are in compliance.** Refer to AD compliance report in aircraft record for complete list of applicable AD's. Ground run engine and checked for leaks, none noted.

I **CERTIFY** this **ENGINE** has been inspected in accordance with a **100 HOUR** inspection and was determined to be in **AIRWORTHY** condition.


Bruce A. Beard - A&P 

10/2/13

Bruce A. Beard, Owner-A&P/IA

Phone/Fax: 337-598-4773, Mobile: 337-515-5643

Email: bruceabeard@wb4me.com

CORROSION
Authorized Application Center

TOTALS-Carry forward to next page

DA

Beard's Aircraft Services, LLC

9852 Robinson Road
Bell City, LA 70630

7/10/15 Reg.# N4765N Cessna 182Q

Tach Reads; 431.01 Aircraft Serial# 10257348

Engine; Texas Skyways O-520-U/TS S/N; 286734-R

Drained the oil and removed the oil filter. Serviced the engine with a new CH48108-10 oil filter and 10 qts
Aeroshell W100 Plus. Test run of the engine revealed no leaks.
In accordance with 14 CFR Part 43.9 the aircraft is approved for return to service.

Bruce A. Beard - A&P

7/10/15

Bruce A. Beard, Owner A&P/IA

Phone/Fax: 337-598-4773, Mobile: 337-515-5643

Email: bruceabeard@wb4me.com

CORROSIONX

Authorized Application Center

Beard's Aircraft Services, LLC

9852 Robinson Road
Bell City, LA 70630

12/2/15 Reg.# N4765N Cessna 182Q

TCM/Texas Skyways Tach Reads; 452.06

Engine TT 2327.26 SMOH: 452.06 O470-U/O-520-U-TS S/N (286734-R Mod) 5U210

Completed 100hr inspection this date in accordance with 14 CFR Part 43 Appendix D, and O-470/520 inspection checklist. **NOTE: IAW TCM, Texas Skyways, and RAM Aircraft, AD research (14CFR Part 39) was checked on this engine as an IO-520 series.** Cleaned, inspected, checked gap on the spark plugs. Torqued spark plugs to 35ft.lbs. Tested ignition cables, checked and synchronized magneto timing (22° BTC). Cylinder differential compression (IAW TCM SB03-3) test as follows; #1 71/80; #2 70/80; #3 71/80; #4 70/80; #5 69/80; #6 78/80. Borescope inspection revealed no apparent defects. Replaced the engine air filter with new BA-8103-1 element. Drained the oil and removed the oil filter. Installed new AA48108-2 filter and serviced the engine with 10 qts Aeroshell W100 Plus oil. **All applicable AD's are in compliance.** Refer to AD compliance report in aircraft record for complete list of applicable AD's. Ground run engine and checked for leaks, none noted.

I **CERTIFY** this **ENGINE** has been inspected in accordance with a **100 HOUR** inspection and was determined to be in **AIRWORTHY** condition.

Bruce A. Beard - A&P

12/2/15

Bruce A. Beard, Owner A&P/IA

Phone/Fax: 337-598-4773, Mobile: 337-515-5643

Email: bruceabeard@wb4me.com

CORROSIONX

Authorized Application Center

Beard's Aircraft Services, LLC
9852 Robinson Road
Bell City, LA 70630

12/9/16 N4765N Cessna 182Q

TCM/Texas Skyways
Tach Reads: 478.94
Engine TT 2354.14
SMOH: 478.94
O470-U/O-520-U-TS
S/N (286734-R Mod) 5U210

Completed 100hr inspection this date in accordance with 14 CFR Part 43 Appendix D, and O-470/520 inspection checklist. **NOTE: IAW TCM, Texas Skyways, and RAM Aircraft, AD research (14CFR Part 39) was checked on this engine as an IO-520 series.** Cleaned, inspected, checked gap on the spark plugs. Torqued spark plugs to 35ft.lbs. Tested ignition cables, checked and synchronized magneto timing (22° BTC). Cylinder differential compression (IAW TCM SB03-3) test as follows; #1 72/80; #2 71/80; #3 78/80; #4 79/80; #5 72/80; #6 75/80. Borescope inspection revealed no apparent defects. Replaced the engine air filter with new BA-8103-1 element. Drained the oil and removed the oil filter. Installed new AA48108-2 filter and serviced the engine with 10 qts Aeroshell W100 Plus oil. **All applicable AD's are in compliance.** Refer to AD compliance report in aircraft record for complete list of applicable AD's. Ground run engine and checked for leaks, none noted.

I CERTIFY this **ENGINE** has been inspected in accordance with a **100 HOUR** inspection and was determined to be in **AIRWORTHY** condition.

Bruce A. Beard - A&P

12/9/16
12/9/16

Bruce A. Beard, Owner-A&P/IA

Phone/Fax: 337-598-4773, Mobile: 337-515-5643 Email: bruceabeard@wb4me.com

CORROSION
Authorized Application Center

Beard's Aircraft Services, LLC
9852 Robinson Road
Bell City, LA 70630

1/15/18 N4765N Cessna 182Q

TCM/Texas Skyways
Tach Reads: 526.31
Engine TT 2401.51
SMOH: 526.31
O470-U/O-520-U-TS
S/N (286734-R Mod) 5U210

Completed 100hr inspection this date in accordance with 14 CFR Part 43 Appendix D, and O-470/520 inspection checklist. **NOTE: IAW TCM, Texas Skyways, and RAM Aircraft, AD research (14CFR Part 39) was checked on this engine as an IO-520 series.** Cleaned, inspected, checked gap on the spark plugs. Torqued spark plugs to 35ft.lbs. Tested ignition cables, checked and synchronized magneto timing (22° BTC). Cylinder differential compression (IAW TCM SB03-3) test as follows; #1 74/80; #2 73/80; #3 77/80; #4 78/80; #5 73/80; #6 77/80. Borescope inspection revealed no apparent defects. Replaced the engine air filter with new BA-8103-1 element. Drained the oil and removed the oil filter. Installed new AA48108-2 filter and serviced the engine with 10 qts Aeroshell W100 Plus oil. **All applicable AD's are in compliance.** Refer to AD compliance report in aircraft record for complete list of applicable AD's. Ground run engine and checked for leaks, none noted.

I CERTIFY this **ENGINE** has been inspected in accordance with a **100 HOUR** inspection and was determined to be in **AIRWORTHY** condition.

Bruce A. Beard - A&P

1/15/18
1/15/18

Bruce A. Beard, Owner-A&P/IA

Phone/Fax: 337-598-4773, Mobile: 337-515-5643 Email: bruceabeard@wb4me.com

CORROSION
Authorized Application Center

SUB-TOTALS this page

TOTALS-Carry forward to next page

Beard's Aircraft Services, LLC

9852 Robinson Road
Bell City, LA 70630

2/9/19

N4765N Cessna 182Q

TCM/Texas Skyways
Tach Reads: 549.62
Engine TT 3077.72
SMOH: 549.62
O470-U/O-520-U-TS

Completed 100hr inspection this date in accordance with 14 CFR Part 43 Appendix D, and O-470/520 inspection checklist. **NOTE: IAW TCM, Texas Skyways, and RAM Aircraft, AD research (14CFR Part 39) was checked on this engine as an IO-520 series.** Cleaned, inspected, checked gap on the spark plugs. Torqued spark plugs to 35ft.lbs. Tested ignition cables. Removed both mags since timing changed more than 4° since last annual. Opened both mags and set E-gap IAW Unison Manual L-1363C. Installed the mags, checked and synchronized magneto timing (22° BTC). Cylinder differential compression (IAW TCM SB03-3) test as follows; #1 74/80; #2 70/80; #3 74/80; #4 78/80; #5 77/60; #6 76/80. Borescope inspection revealed no apparent defects. Replaced the engine air filter with new BA-8103-1 element. Drained the oil and removed the oil filter. Installed new AA48108-2 filter and serviced the engine with 10 qts Aeroshell W100 Plus oil. Cleaned and de-greased the engine. **All applicable AD's are in compliance.** Refer to AD compliance report in aircraft record for complete list of applicable AD's. Ground run engine and checked for leaks, none noted.

I **CERTIFY** this **ENGINE** has been inspected in accordance with a **100 HOUR** inspection and was determined to be in **AIRWORTHY** condition.

Bruce A. Beard - A&P

2/9/19

Bruce A. Beard, Owner-A&P/IA

Phone/Fax: 337-598-4773, Mobile: 337-515-5643 Email: bruceabeard@wb4me.com

CORROSIONX
Authorized Application Center

Beard's Aircraft Services, LLC

9852 Robinson Road
Bell City, LA 70630

3/5/2020

N4765N

Cessna 182Q

TCM/Texas Skyways
Tach Reads: 586.3
Engine TT 2461.5
SMOH: 586.3
O470-U/O-520-U-TS
S/N (286734-R Mod) 5U210

Completed 100hr inspection this date in accordance with 14 CFR Part 43 Appendix D, and O-470/520 inspection checklist. **NOTE: IAW TCM, Texas Skyways, and RAM Aircraft, AD research (14CFR Part 39) was checked on this engine as an IO-520 series.** Cleaned, inspected, checked gap on the spark plugs. Torqued spark plugs to 35ft.lbs. Tested ignition cables, checked and synchronized magneto timing (22° BTC). Cylinder differential compression (IAW TCM SB03-3) test as follows; #1 70/80; #2 73/80; #3 75/80; #4 72/80; #5 70/60; #6 70/80. Borescope inspection revealed no apparent defects. All leakage was dynamic. Replaced the engine air filter with new BA-8103-1 element. Removed the propeller. Removed the main crankshaft seal and installed a new 641250 seal. Installed the propeller and torqued nuts. Drained the oil and removed the oil filter. Installed new AA48108-2 filter and serviced the engine with 10 qts Aeroshell W100 Plus oil. **All applicable AD's are in compliance.** Refer to AD compliance report in aircraft record for complete list of applicable AD's. Ground run engine and checked for leaks, none noted.

I **CERTIFY** this **ENGINE** has been inspected in accordance with a **100 HOUR** inspection and was determined to be in **AIRWORTHY** condition.

Bruce A. Beard - A&P

3/5/2020

Bruce A. Beard, Owner-A&P/IA

Phone/Fax: 337-598-4773, Mobile: 337-515-5643 Email: bruceabeard@wb4me.com

CORROSIONX
Authorized Application Center

Weight / Balance & Equipment List Revision

Page #: 1

General Avionics, Inc. - Y4XR461Y

18000 Groeschke Road, Hangar 1-E

Houston, TX 77084 Tel: 281-647-9600

A/C Tail #: N4765N

Register Name: D@S AVIATION

Name 2:

Address 1:

Address 2:

City, State, PC: SULPHUR, LA 70665

A/C Make: CESSNA

A/C Model: 182Q

A/C Serial #: 18267348

WO Ref #: 12507

WB Date: Jun-26-2017

WB ID #: 384

Previous data taken from document dated Aug-06-2010 Previous useful load = 1039.00

Model #	Description	(LB / IN) Weight	CG/Arm	Moment
	Previous data ->	1911.00	34.86	66621.90
REMOVED ITEMS -----				
400 ARC DME	DME	-13.90	101.90	-1416.41
GPS150XL	GPS RECEIVER/MAP 010-00137-00	-2.40	66.00	-158.40
NSD-360	HSI 52D137-1333	-4.80	63.00	-302.40
R546A ADF SYSTEM	ADF SYSTEM	-8.50	22.10	-187.85
RT-359A	TXP 41420-1128	-3.00	66.00	-198.00
VAC SYSTEM W/GYROS		-6.70	13.40	-89.78
WIRING		-4.00	88.00	-352.00
REMOVED SUB TOTAL	7 Items @	-43.30	62.47	-2704.84
INSTALLED ITEMS -----				
A-05-110-00	PFD	2.90	66.00	191.40
A-05-111-00	RSM	0.20	186.00	37.20
A-05-112-00	ACU	0.80	55.00	44.00
CONFIG MODULE	MODULE	0.50	60.00	30.00
G5 HORIZON	ATTITUDE INDICATOR	1.00		
GARMIN GTN 750	WAAS NAVIGATOR	10.00	66.00	660.00
GMA350C	AUDIO PANEL	3.00	66.00	198.00
GTX345	ADSB/ES TRANSPONDER	4.00	66.00	264.00
INSTALLED SUB TOTAL	9 Items @	22.40	63.60	1424.60
NEW DATA >>	NEW USEFUL LOAD = 1059.90	1890.10	34.57	65341.66

Authorized Individual: Y4XR461Y General Avionics, Inc.

INITIAL AS REQUIRED	PRELIMINARY	
	HIDDEN DAMAGE	
	IN-PROCESS	
	FINAL	

I CERTIFY THAT THIS
HAS BEEN REPAIRED AND INSPECTED IN ACCORDANCE WITH
CURRENT FAA REGULATIONS AND IS APPROVED FOR RETURN TO
SERVICE.

INSPECTED BY: _____

GENERAL AVIONICS, INC.

FAA CRS# Y4XR461Y

18000 GROESCHKE ROAD

HANGAR 1-E

HOUSTON, TEXAS 77084

(281) 647-9600 fax (281) 647-9899

NO. 12507

QT	PART NUMBER & DESCRIPTION	PRICE EA	TOTAL	REGISTERED NAME	DATE
1	G5 (4JQ009001)			D + S Aviation Inc.	06/27/2017
				BILLING NAME Dalton Langford	A/C REG NO N4765N
				ADDRESS [REDACTED]	A/C MAKE CESSNA
1	GMA350c (1UF201845)			CITY, STATE, ZIP Sulphur, LA 70665-8707	A/C MODEL 182Q
				PHONE [REDACTED]	A/C SER NO 18267348
1	GTX345 (3EG007537)			HRS SERVICE PERFORMED	
				1 REMOVE ARC 385A, 355A, MARKER, DME,	
				AUDIO SYSTEM ADF.	
				INSTALL 350C, 345, 750, 65, ASPEN 720	
1	GTN750 (1ZA020883)				
1	GA35 (136649)				
1	Altitude Encoder (3T6003374)				
1	Aspen EFD 1000 Display (2483)				
1	Config Module (20029)				
1	ACU (16716)				
1	RSM (202758)				
1	AERA 796AV Mant, Bare Wine,				
1	Extension cable, GXM30				
PARTS TOTAL				1 IFR Recertification (\$350.00)	N/C

SHIPPING

FROM: GARMIN
FROM: ASPEN
FROM: GARMIN

SHIPPING TOTAL

I HEREBY ACKNOWLEDGE THAT BY LEAVING THE ARTICLE OR A
DEPOSIT I AM AUTHORIZING THE ABOVE LISTED WORK, ALONG WITH
THE REQUIRED MATERIALS. THIS FACILITY MAY MAKE ALL NECESSARY
CHECKS TO DETERMINE THE AIRWORTHINESS OF THE ARTICLE. AN
EXPRESS MECHANIC'S LIEN IS HEREBY ACKNOWLEDGED ON THE
ABOVE ARTICLE OR JOB SCOPE TO SECURE AMOUNT DUE.

X

Thank you

SERVICE
LABOR
PARTS
SUBLET
SHIPPING
TAX
TOTAL DUE

Deposit -



U.S. Department of Transportation
Federal Aviation Administration
ADS-B Performance Monitor

Public ADS-B Performance Report

ICAO: A5DA78 (51355170) Tail Number: N4765N Last Flight Id: N4765N
Period: 07-26-2017 19:13:39 to 07-26-2017 20:15:12

Operation Analysis Overview

	Analysis
Airborne 1090	☒
Surface 1090	☐
Surface RWY/Taxi 1090	☐
Airborne UAT	☐
Surface UAT	☐
Surface RWY/Taxi UAT	☐

Prepared By

Surveillance and Broadcast Services (SBS) Program
ADS-B Performance Monitor

July 27, 2017

Note: Items high-lighted in red within this report indicate the ADS-B Out system installed on this aircraft failed to meet the corresponding performance requirement as specified in § 91.227.

For more information on this report, reference the **User's Guide**.

Operation Summary

Operation Id:	43859431	Start Time:	07-26-2017 19:13:39		
ICAO Reported:	A5DA78 (51355170)	End Time:	07-26-2017 20:15:12		
ICAO Assigned:	A5DA78 (51355170)	Duration:	01:01:32	Mod: 01:01:32	Rule: 00:41:08
Tail Number:	N4765N	Total Reports:	20152	Best Msg:	3757
Country:	United States - Civil	Stationary:	No	TIS-B Client %:	99.5%

Detection: ☒ Airborne ☐ Surface

Link Version:	2	Out Capability:	1090	In Capability:	DUAL
Last Flight Id:	N4765N				
Operator:					

Airborne 1090 Analysis Summary

Start Time: 07-26-2017 19:13:39

End Time: 07-26-2017 20:15:12

Total Reports: 20152

Duration(s): 01:01:32

Mod: 01:01:32

Rule: 00:41:08

Processed Reports: 3726

Link Version: 2

Out Capability: 1090

In Capability: DUAL

Emitter Category: 1 - Light (<15,500lbs)

Antenna(s): 1 - Single

Last Flight Id: N4765N

Exceptions:

NIC	NACp	NACv	SIL	SDA
No	No	No	No	No

Other Checks

% Fail	0.00%	0.00%
Max CT	00:00:00	00:00:00
MCF	0	0

% Fail	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Max CT	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00	00:00:00
MCF	0	0	0	0	0	0	0	0	0	0

% Fail	0.00%
Max CT	00:00:00
MCF	0

Notes: MCF - Maximum Consecutive Failures



U.S. Department of Transportation
Federal Aviation Administration
ADS-B Performance Monitor

GA Incentive Requirements Status Report

ICAO: A5DA78 (51355170) Tail Number: N4765N Flight Id: N4765N Equipage: 1090
Operation ID: 43859431 Period: 07-26-2017 19:13:39 to 07-26-2017 20:15:12 Rule Duration: 00:41:08

Rebate Status

All requirements for the GA Incentive Program have been met. Submit this report and required documentation per Incentive Program Instructions.

PASS

Incentive Code: [REDACTED]

Aircraft Registration Status

The Performance Monitor confirmed that the aircraft is a fixed-wing or powered glider aircraft with single piston engine based on the Civil Aviation Registry.

PASS

Detection in Rule Airspace

The Performance Monitor successfully validated that the flight operation consisted of at least 30 minutes in the airspace defined in 14 CFR §1.225.

PASS

ADS-B Rule Performance

The Performance Monitor successfully validated that the requested flight met ADS-B Out rule requirements.

PASS

Prepared July 27, 2017
Requested by Paul Perry

Incentive Code

By submitting this report, the requestor named above certifies that to the best of their information and belief, the information contained in this report is true and accurate.

The information provided herein is subject to the terms of 31 U.S.C 3729 False Claims, which holds that the knowing submission of any false or fraudulent information will result in the individual's liability to the United States Government for a civil penalty of not less than \$5,000 and not more than \$10,000, as adjusted by the Federal Civil Penalties Inflation Adjustment Act of 1990 (28 U.S.C. 2461 note; Public Law 104-410), plus 3 times the amount of damages which the government sustains because of the act of that individual. An individual violating this subsection shall also be liable to the United States Government for the costs of a civil action brought to recover any such penalty or damages.

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

Form Approved
OMB No. 2125-0020
11/30/2007

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 US N4765N	Serial No. 18267348
	Make CESSNA	Model 182Q
2. Owner	Name (As shown on registration certificate) D&S AVIATION INC	Address (As shown on registration certificate) [REDACTED] SULPHUR, LA 70665

3. For FAA Use Only

4. Type

5. Unit Identification

Repair	Alteration	Unit	Make	Model	Serial No.
☐	☒	AIRFRAME	[REDACTED]	(As described in Item 1 above)	[REDACTED]
☐	☐	POWERPLANT			
☐	☐	PROPELLER			
☐	☐	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address General Avionics, Inc. 18000 Groeschke Road Hangar 1-E Houston, TX 77084 USA	B. Kind of Agency	
	☐ U. S. Certificated Mechanic	☐ Manufacturer
	☐ Foreign Certificated Mechanic	☐ C. Certificate No.
	☒ Certificated Repair Station	CRS# Y4XR461Y General Avionics, Inc. 18000 Groeschke Rd.
☐ Certificated Maintenance Organization		

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 ☐	Signature/Date of Authorized Individual [REDACTED] JAMES W WURMAN JR 29-October-2019
--	---

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

FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
BY	FAA Designee ☒	Repair Station	Inspection Authorization
		Other (Specify)	

Certificate or Designation No. Y4XR461Y	Signature/Date of Authorized Individual [REDACTED] General Avionics, Inc. 29-October-2019
--	--

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.)

US N4765N

Oct-29-2019

Nationality and Registration Mark

Date

- A. Removed equipment as listed on revised Weight and Balance this date.
- B. Installed a GARMIN GFC 500 AUTOPILOT.
- C. This installation was performed in accordance with or the following manuals were referenced during the installation: Garmin STC # SA01866WI
- D. All installed equipment was function tested to MPS this date for proper operation.
- E. Aircraft Weight and Balance revised this date.
- F. Instructions for Continued Airworthiness placed in Aircraft Records.
- G. FAA Approved Flight Manual Supplement provided to aircraft owner.

END



US Department
of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020
11/30/2007

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 <u>N4765N</u>	Serial No. <u>18267348</u>
	Make <u>CESSNA</u>	Model <u>182Q</u> Series <u>182</u>
2. Owner	Name (As shown on registration certificate) <u>D&S AVIATION, INC.</u>	Address (As shown on registration certificate) [Redacted]
		City <u>JULFORD</u> State <u>LA.</u> Zip <u>70665</u> Country <u>USA</u>

3. For FAA Use Only

4. Type

5. Unit Identification

Repair	Alteration	Unit	Make	Model	Serial No.
☐	☐	AIRFRAME	_____	(As described in Item 1 above)	_____
☐	☒	POWERPLANT	Teledyne Continental Motors	O-470-U	286734-R
☐	☐	PROPELLER			
☐	☐	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.
Name <u>RAM Aircraft, Limited Partnership</u>		U. S. Certificated Mechanic		
Address <u>7505 Karl May Drive</u>		Foreign Certificated Mechanic		Airframe Class III, Powerplant Class I VA1R551K
City <u>Waco</u> State <u>Texas</u>		☒ Certificated Repair Station		
Zip <u>76708</u> Country <u>United States</u>		☐ Certificated Maintenance Organization		

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 ☐	Signature/Date of Authorized Individual <u>Ronnie Veselka 07/03/09</u>
--	---

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 Other (Specify)
	FAA Designee ☒	Repair Station	Inspection Authorization	

Certificate or Designation No. <u>VA1R551K</u>	Signature/Date of Authorized Individual <u>Ronnie Veselka 07/03/09</u>
---	---

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.)

N4765N

07/03/09

Nationality and Registration Mark

Date

This engine was modified in accordance with FAA STC SE09773SC, Dwg. No. 000105, Rev. B dated 3-6-02.
The modified engine designation is O-520-UTS.

Installation mechanic must complete Block 1 and 2 on reverse side and mail one copy to the Federal Aviation Administration, Aircraft Registration Branch AFS-750, P. O. Box 25505, Oklahoma City, Oklahoma 73125.

Weight and balance change negligible.

Pertinent details of the above modification on file under Project No. 4777.

---End---

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

1. Aircraft	Make CESSNA	Model 182Q
	Serial No. 18267348	Nationality and Registration Mark N4765N
2. Owner	Name (As shown on registration certificate) D & S AVIATION, INC. [REDACTED] SULPHUR, LA 70665	

3. For FAA Use Only

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~(As described in item 1 above)~~~~~			☐	☒
POWERPLANT				☐	☐
PROPELLER				☐	☐
APPLIANCE	Type			☐	☐
	Manufacturer			☐	☐

6. Conformity Statement

A. Agency's Name and Address ELGIN A. ESENSEE [REDACTED] BOERNE, TEXAS 78006	B. Kind of Agency ☒ U.S. Certified Mechanic ☐ Foreign Certified Mechanic ☐ Certified Repair Station ☐ Manufacturer	C. Certificate No. A&F [REDACTED]
---	---	--------------------------------------

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 07/24/09	Signature of Authorized Individual ELGIN A. ESENSEE [REDACTED]
------------------	--

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 ☒ APPROVED ☐ REJECTED

BY	☐ FAA Fit Standards Inspector	☐ Manufacturer	☒ Inspection Authorization	Other (Specify)
	☐ FAA Designee	☐ Repair Station	☐ Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 07/24/09		Certificate or Designation No. A&F [REDACTED]	Signature of Authorized Individual ELGIN A. ESENSEE [REDACTED]	

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.)

Removed TCM O-470-U engine, S/N 469333 and McCauley C2A34C204 propeller, S/N 797933. Installed Texas Skyways O-520-U/TS (modified O-470-U) engine, S/N 286734-R, Hartzell HC-G3YF-1RF/F8068 propeller, S/N LC10B, D-5732-P spinner and Horizon P-1000 tachometer, S/N 0924203. Installation accomplished in accordance with Texas Skyways STC SA09026SC S/N 5U211. Installed Texas Skyways engine mount, P/N 71-20-01, S/N TSI1115, in accordance with STC SA10082SC and Document No. 71-20-05, Rev. A and 71-20-06. Installed engine mount with all new vibration isolators and hardware. Installed engine mount heat shields in accordance with Texas Skyways STC SA09964SC. Installed temperature monitoring system in accordance with J.P. Instruments STC SA2586NM. Installed fuel flow transducer in accordance with J.P. Instruments STC SA00432SE. Installed cockpit sun visors in accordance with Rosen Product Development, Inc. STC SA3693NM. Weight and balance revised.

END

☐ Additional Sheets Are Attached

4765N

6.11

Book #2

AIRCRAFT LOG
AL-12P

N4765N

Book #1

Cessna



AIRCRAFT LOG
AND MAINTENANCE RECORD

N4765N

SERIAL NO. 18267348

ARTEX AIRCRAFT SUPPLIES, INC.
24368 S. Skyline Dr. Canby, OR 97013
(503) 266-3959 800-547-8901

LOG BOOK ENTRY
3/94

E.L.T. BATTERY
REPLACEMENT DATE

AIRCRAFT DESCRIPTION

MANUFACTURER Cessna MODEL 182Q DATE OF MFG. 1979

SERIAL NUMBER 18267348 REGISTRATION NUMBER N4765N

REGISTERED OWNER John McRae

STREET ADDRESS _____

CITY, STATE, ZIP _____

OPERATOR _____

STREET ADDRESS _____

CITY, STATE, ZIP _____

REGISTERED OWNER _____

STREET ADDRESS _____

CITY, STATE, ZIP _____

OPERATOR _____

STREET ADDRESS _____

CITY, STATE, ZIP _____

Inspection Status

[Check one]



F.A.R. 91.409 ANNUAL/100 HOUR



F.A.R. 91.409 PROGRESSIVE



F.A.R. 135.419 A.T.C.O.



OTHER

DATE ENTERED _____

MAINTENANCE RESPONSIBILITY

INSTALLED EQUIPMENT

ITEM	MANUFACTURER	MODEL	SERIAL NO.
ENGINE	CONTINENTAL	0-470-U	R L 469333
ENGINE			R L
PROPELLER	McCAULEY	C2A34C204	797933
PROPELLER			
ENGINE			
ENGINE			
PROPELLER			
PROPELLER			
ENGINE			
ENGINE			
PROPELLER			
PROPELLER			
ENGINE			
ENGINE			
PROPELLER			
PROPELLER			

MAINTENANCE RECORD

F.A.R. 43.9

NO.	DATE OF COMPLETION	AIRCRAFT TIME	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SER
			Date: 06/27/95 , Tach Time: 2029.8, Aircraft Total Time: 2029.8 C/W AD87-20-03, R2 by inspection of seat rails, measures within limits, due again at 2129.8. C/W AD 81-15-03 Filter has steel screen. Replace lower left hand cowl mount. Replace Induction Air filter element. Install new fasteners on airbox. Replace vacuum relief valve filter, Install new seal in R/H brake caliper, and R/H outer brake pads. Replace R/H main gear tire with new Condor 6.00 x 6, 6 ply. Install larger washers in the landing gear fairing. Installed new seal kit SK172-1F, in nose strut and filled with fluid and service. Install New AN5-52A bolt in nose gear. Install new 5.00x5 Condor tire on nose wheel. Lubricate Defroster control and cables. Remove elevator trim tab actuator and clean install new seals and lube, and re-install. Install New stop clips on rudder stops per service Bulleting SB80-65. Adjusted lower Elevator cable tension and re-saftied. Free up to frozen trim cable pulleys under floor. Repair damage by tow bar to Nose wheel fairing. Install Cessna secondary seat stop kit P/N SEATKIT2D as per Cessna installation instructions and installed flight manual supplement in Pilots operating hand book. C/W ELT Inspection as required in FAR 91 207 (d) (1-4). All Applicable AD's researched and complied with (See AD Records accompanying log Books.) Plane was ground run and test flown and approved for return to service.	

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

Signed

John Davolt

AI [redacted] IA

Ref: 65NLGA3

INSPECTION RECORD

E A D 42 11 11 400

Beard's Aircraft Services, LLC

9852 Robinson Road
Bell City, LA 70630

7/10/15 Reg.# N4765N Cessna 182Q
Tach Reads; 431.01 Aircraft Serial# 18267348

Owner reports engine losing oil and LH PTT mike switch inop. Found the oil pressure line from the firewall to the oil pressure switch had a pinhole in it from chafing with SCAT tubing. Replaced line with new 1/4" tubing. Opened up floor panels and cleaned oil from inside the firewall, down through the rudder pedals, and out under floorboards. Cleaned and de-greased the carpet. Troubleshooting LH PTT switch found bad wire ribbon in the yoke. Routed new 20 gauge wire from PTT switch through the yoke to the LH mike jack (IAW AC-43 13-2B). LH PTT switch now functions normally. Assembled the aircraft interior, test ran the engine to check for oil leaks, none noted. Refer to engine maintenance record for oil change data.

In accordance with 14 CFR Part 43.9 the aircraft is approved for return to service.

Bruce A. Beard - A&P

7/10/15

Bruce A. Beard, Owner-A&P/IA

Phone/Fax: 337-598-4773, Mobile: 337-515-5543 Email: bruceabeard@wb4me.com

CORROSIONX
Authorized Application Center

F.A.R. 43.11-91.405

KIND OF INSPECTION - STATUS & DISCREPANCY LIST
SIGNATURE - CERT. NO. OF PERSON APPROVING OR DISSAPPROVING AIRCRAFT FOR SERVICE

Beard's Aircraft Services, LLC

9852 Robinson Road
Bell City, LA 70630

N4765N

1/15/18

Cessna 182Q
Ser.#18267348
Tach Reads 526.31
TTSN 3054.41

Completed **ANNUAL** inspection this date in accordance with 14 CFR Part 43 Appendix D and C-182Q inspection checklist on file with this facility. Cleaned the aircraft. Replaced the air filter with a new Brackett BA8103-1 filter. Inspected the ELT IAW **14 CFR Part 91.207(d)**. ELT battery replacement due on or before **2/19**. Cleaned, inspected, and repacked the landing gear wheel bearings. Balanced tires. Cleaned and inspected the fuel screen. Sealed the windscreen using neoprene caulk. Complied with **AD 11 10 09**, no defects noted, **due at next 100 hr/annual whichever occurs first. All applicable AD's are in compliance.** Refer to AD compliance checklist in aircraft record for current status of all applicable AD's. Ground run the aircraft and checked for leaks, none noted. All systems operational checks were normal.

I **CERTIFY** this **AIRCRAFT** has been inspected in accordance with an **ANNUAL** inspection and was determined to be in **AIRWORTHY** condition.

Bruce A. Beard - A&P

IA 1/15/18

Bruce A. Beard, Owner-A&P/IA

Phone/Fax: 337-598-4773, Mobile: 337-515-5643

Email: bruceabeard@wb4me.com

CORROSION
Authorized Application Center

Beard's Aircraft Services, L

9852 Robinson Road
Bell City, LA 70630

2/9/19

N4765N

Cessna 182Q
Ser.#18267348
Tach Reads 549.62
TTSN 3077.72

Completed **ANNUAL** inspection this date in accordance with 14 CFR Part 43 Appendix D and C-182Q inspection checklist on file with this facility. Cleaned the aircraft. Replaced the air filter with a new Brackett BA8103-1 filter. Inspected the ELT IAW **14 CFR Part 91.207(d)**. Replaced ELT battery with new. ELT battery replacement due on or before **1/2021**. Cleaned, inspected, and repacked the landing gear wheel bearings. Removed both brake assemblies due to leaking. Cleaned the assemblies, replaced the O rings with new MS28775-223 rings. Installed and bled the brakes using 5606 oil. Function test is normal. Removed the manifold pressure gauge and sent out for repair. Gauge repaired IAW w/o #51344, dated 2/6/19, Rudy Aircraft Instruments, CRS# RIZR316K. Installed and function tested gauge. No defects noted. Replaced the LH position light bulb with a new Whelen W129028 bulb. Balanced tires. Cleaned and inspected the fuel screen. Complied with **AD 11 10 09**, no defects noted, **due at next 100 hr/annual whichever occurs first. All applicable AD's are in compliance.** Refer to AD compliance checklist in aircraft record for current status of all applicable AD's. Ground run the aircraft and checked for leaks, none noted. All systems operational checks were normal.

I **CERTIFY** this **AIRCRAFT** has been inspected in accordance with an **ANNUAL** inspection and was determined to be in **AIRWORTHY** condition.

Bruce A. Beard - A&P

IA

2/9/19

Bruce A. Beard, Owner-A&P/IA

Phone/Fax: 337-598-4773, Mobile: 337-515-5643

Email: bruceabeard@wb4me.com

CORROSIONX
Authorized Application Center

INSPECTION RECORD
F.A.R. 43.11-91.409

KIND OF INSPECTION - STATUS & DISCREPANCY LIST

SIGNATURE CERT. NO. OF PERSON APPROVING OR DISAPPROVING AIRCRAFT FOR SERVICE

DATE

AIRCRAFT TIME
IN SERVICE

Beard's Aircraft Services, LLC
9852 Robinson Road
Bell City, LA 70630

3/5/2020

N4765N

Cessna 182Q
Ser.#18267348
Tach Reads 586.3
TTSN 3114.4

Completed **ANNUAL** inspection this date in accordance with 14 CFR Part 43 Appendix D and C-182Q inspection checklist on file with this facility. Cleaned the aircraft. Replaced the air filter with a new Brackett BA8103-1 filter. Inspected the ELT IAW **14 CFR Part 91.207(d)**. Replaced ELT battery with new. ELT battery replacement due on or before **1/2021**. Cleaned, inspected, and repacked the landing gear wheel bearings. Balanced tires. Cleaned and inspected the fuel screen. Removed the fiberglass rudder cap and vertical stabilizer cap from service. Installed a new SA-1231064-1 cap on the vertical stabilizer and a new SA-0731606-9 rudder cap. Both items painted matterhorn white. Complied with **AD 11 10 09**, no defects noted, **due at next 100 hr/annual whichever occurs first. All applicable AD's are in compliance.** Refer to AD compliance checklist in aircraft record for current status of all applicable AD's. Ground run the aircraft and checked for leaks, none noted. All systems operational checks were normal.

I **CERTIFY** this **AIRCRAFT** has been inspected in accordance with an **ANNUAL** inspection and was determined to be in **AIRWORTHY** condition.

Bruce A. Beard - A&P

IA

3/5/2020

Bruce A. Beard, Owner-A&P/IA

Phone/Fax: 337-598-4773, Mobile: 337-515-5643

Email: bruceabeard@wb4me.com

CORROSION

Authorized Application Center

Sparrow Inspections LLC

FAR91.413 The Transponder make GARMIN
Model GTX 345 and S/N 3EG007537

I Certify the ATC Transponder has been tested and inspected
And found to comply with FAR 43 APP.F.

For details see W.O. 8647

Inspected by [REDACTED] Date 5-1-2020

Sparrow Inspections LLC. FAA CRS XXYP919L
477 Norwood Rd. Mansfield, La. 71052 (318)286-1152

FAR 91.411 The Altimeter make ASPEN
Model EFD 1000 and S/N 24833

I Certify the static pressure system, altimeter instrument, and
Automatic pressure altitude reporting system has been tested

And inspected and found to comply with FAR 43 APP.E.

Test to 20 K ft. For details see W.O. 8647

Inspected

by [REDACTED] Date 5-1-2020

Sparrow Inspections LLC FAA CRS XXYP919L
477 Norwood Rd. Mansfield, La. 71052 (318)286-1152

RECORD

.409

STATUS & DISCREPANCY LIST

MOVING OR DISSAPPROVING AIRCRAFT FOR SERVICE

FAR 91.411 The Altimeter make

Model 5934 P-1 and S/N 427436

I Certify the static pressure system, altimeter instrument, and
Automatic pressure altitude reporting system has been tested

And inspected and found to comply with FAR 43 APP.E.

Test to 20 K ft. For details see W.O. 8647

Date 5-1-2020

FAA CRS XXYP919L

Sparrow Inspections LLC
477 Norwood Rd. Mansfield, La. 71052 (318)286-1152