

406 Yellowbird Rd • Portland International Airport • Portland, ME 04102
 (207) 780-1811 • Fax (207) 772-6900



CRS FSER011E

Date	WO#	Registration	Type/Model	SN	Tach	ACTT
7/21/2017	41249	N5289D	Mooney M20K	25-1192	809.9	n/a

Installed a Garmin GTX345 Mode S Transponder System with ADS-B Out functionality in accordance with STC SA01714WI and FAA Form 337, dated June 15 2017.
 Removed the following equipment: KT76A Transponder, p/n 066-1062-00, s/n X67604.
 Installed the following equipment: GTX345, p/n 011-03302-00, s/n 3EG007375.
 The installed ADS-B Out system was shown to meet the equipment performance requirements of 14 CFR section 91.227.
 This alteration and Instructions for Continued Airworthiness contained in the Maintenance Manual, Doc. 190-00734-11, Rev 3, are now part of this aircraft's inspection/maintenance requirements. **This includes an annual inspection requirement.**

Complied with Garmin SB 1669, Rev A "GTX345 Software Update to 2.05"
 Performed 24 month certifications of GTX345, p/n 011-03302-00, s/n 3EG007375. The ATC transponder tests and inspections required by FAR part 91.413 paragraph (a) have been performed and found to comply with FAR part 43 Appendix F and is approved for return to service.

Replaced pins V (com2 mic) & Y (aircraft mic key) at KMA24 audio panel.
 Replaced transponder coax to TCAD coupler and transponder antenna with RG142.
 Weight and balance change is negligible.
 Total current does not exceed recommended load as computed in reference to the aircraft maintenance manual.

Performed post installation checkouts and configuration in accordance with applicable Installation Manuals with no defects noted.

I certify that this aircraft was repaired and inspected in accordance with current Regulations of the FAA and is approved for return to service with respect to the work performed.

Signature _____ CRS FSER011E
 Type and Certificate Number

Type and Certificate Number

Ins, 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.)

Airport • Portland, ME 04102
 (207) 772-6900

Date	WO#	Registration	Type/Model	SN	Tach	ACTT
10/11/2017	41658	N5289D	Mooney M20K	25-1192	815.3	n/a

Removed KI325A HSI, p/n 066-3046-00, s/n 33450 and installed serviceable unit, s/n 5017.
 I certify that this aircraft was repaired and inspected in accordance with current Regulations of the FAA and is approved for
 return to service with respect to the work performed.

Signature

CRS FSR011E

Type and Certificate Number

ations of the FAA and is approved for return to

CRS FSR011E

Type and Certificate Number

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.)

406 Yellowbird Rd • Portland International Airport • Portland, ME 04102
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Maine Aviation
 Aircraft Maintenance, LLC.

CRS FSR011E

Date	WO#	Registration	Type/Model	SN	Tach	ACTT
10/11/2017	41658	N5289D	Mooney M20K	25-1192	815.3	n/a

Removed KI325A HSI, p/n 066-3046-00, s/n 33450 and installed serviceable unit, s/n 5017.
 I certify that this aircraft was repaired and inspected in accordance with current Regulations of the FAA and is approved for
 return to service with respect to the work performed.

Signature

CRS FSR011E

Type and Certificate Number

406 Yellowbird Rd • Portland International Airport • Portland, ME 04102
 (207) 780-1811 • Fax (207) 772-6900

Maine Aviation
 Aircraft Maintenance, LLC.

CRS FSR011E

Date	WO#	Registration	Type/Model	SN	Tach	ACTT
10/19/2017	41658	N5289D	Mooney M20K	25-1192	817.1	n/a

Removed KI325A HSI, p/n 066-3046-00, s/n 5017 and installed repaired unit, s/n 33450.

I certify that this aircraft was repaired and inspected in accordance with current Regulations of the FAA and is approved for
 return to service with respect to the work performed.

Signature

CRS FSR011E

Type and Certificate Number

YEAR
20
DATE

RECORDING
TACH
TIME

TODAY'S
FLIGHT
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.)

TIFFIN AIRE



N5289D Airframe Log Date 10/31/2017 Hr meter 1335.7

TROUBLESHOOTED CHARGING SYSTEM. TESTED ALTERNATOR FIELD CIRCUIT. FOUND TO BE OPEN. REMOVED ALTERNATOR S/N: 1229403.0. INSTALLED NEW ALTERNATOR TELEDYNE CONTINENTAL P/N: 646845A1 S/N: 005AA148 WITH NEW DRIVE COUPLING. TESTED BATTERIES. FAILED CAPACITANCE CHECK AT 77%. INSTALLED NEW CONCORDE BATTERIES P/N: RG-35AXC S/N: 40891063 AND 40891068. TESTED ALL WIRING IN CHARGING CIRCUIT FOR CONTINUITY OR SHORTS. FOUND SHORTED WIRE FOR ALTERNATE AIR SWITCH TO ANNUNCIATOR PANEL. REMOVED WIRE AND ISOLATED. Work performed by Tiffin Aire, Inc.

Signature [Signature] AP3439735

Scale Corrections

Altimeter N5289D

Reads	Add	Reads	Add
-1000	+10	10000	+25
0	+10	12000	+30
500	+10	14000	+40
1000	+5	16000	+50
1500	+10	18000	+70
2000	+5	20000	+90
3000	+10	22000	+100
4000	+15	25000	+110
6000	+20	30000	1
8000	+25	35000	

Date 11 JAN 18

crs WR3R955L

Tested by [Signature]

I certify that the Altimeter, Static System, & Altitude Reporting tests required by FAR 91.411, and the Transponder tests required by FAR 91.413 have been performed IAW FAR 43 App E & F.
Altimeter(s) tested to 25000 Ft. N 5289D
IAW FAR 43 App. E on 11 JAN 18 Date 11 JAN 18
Signed [Signature] Time 835.2
Northcoast Services crs WR3R955L

ons, 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.)



FOUND TO BE OPEN. REMOVED
 NENTAL P/N: 646845A1 S/N: 005AA148 WITH
 7%. INSTALLED NEW CONCORDE BATTERIES
 ING CIRCUIT FOR CONTINUITY OR SHORTS.
 WEL. REMOVED WIRE AND ISOLATED.

AP3439735

Scale Corrections

Altimeter N5289D

Reads	Add	Reads	Add
-1000	+10	10000	+25
0	+10	12000	+30
500	+10	14000	+40
1000	+5	16000	+50
1500	+10	18000	+70
2000	+5	20000	+90
3000	+10	22000	+100

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.)

**TOTAL
TIME IN
SERVICE**

**TODAY'S
FLIGHT**

**RECORDING
TACH
TIME**

**YEAR
20
DATE**

UNITED FLIGHT SERVICES

120 Aviation Way, Watsonville, CA 95076



N5289D

Tach Time: 835.2

February 11, 2018

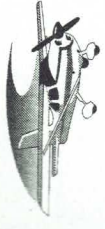
Removed Garmin GNS 530W and sent to Garmin via TGH (Auburn CA.).
 Reinstalled after repairs and upgrades by manufacturer. Removed oxygen bottle and sent
 for hydrostatic testing. Reinstalled oxygen bottle and serviced with ABO. Leak check
 good. Recharged batteries. Replaced voltage regulator with new replacement provided
 by Mooney Aircraft. Ops checked all electrical components disturbed.

Terence M. McKenna

Terence M. McKenna

A&P 569948254 IA

YEAR 20	DATE	RECORDING TACH TIME	TODAY'S 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.)
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UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

June 18, 2018
Tach Time: 847.0
Total Time: 2220.7
N5289D

I certify that this aircraft has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Inspected & tested ELT in accordance with CFR Part 91. 207d & found to be satisfactory. ELT battery expires November 2018. Tested lights and electrical systems. Replaced taxi and landing light bulbs. Inspected vacuum system, back up vacuum pump and vacuum system filters. Inspected fuel tank caps and seals. Cleaned L/H fuel tank drain valve o-rings. Cleaned fuel strainer screen. Serviced oxygen bottle with ABO and leak checked system. Jacked aircraft and greased all landing gear grease fittings. Tested downlock overcenter tensions. Performed retraction cycle and emergency extension. Repacked all wheel bearings. Checked brakes and reservoir. Replaced ALB brake linings and topped off reservoir. Lubed all flight control and landing gear rod ends, bearings and hinges with silicon. See Airworthiness Directive Compliance Checklist for compliance & next due dates and times.

Terence M. McKenna
Terence M. McKenna
A&P 569948254 IA

ns, Tests, Repairs and Alterations

Name, Rating and Certificate Number of
(See back pages for other specific entries.)

Total Time: 2220.7

ance with an annual
t 43 Appendix D and has
tested ELT in accordance
ery expires November 2018.
ng light bulbs. Inspected
ilters. Inspected fuel tank
leaned fuel strainer screen.
Jacked aircraft and greased
tensions. Performed
el bearings. Checked
d off reservoir. Lubed all
with silicon. See
ce & next due dates and

A&P 569948254 IA

YEAR
20
DATE

RECORDING
TACH
TIME

TODAY'S
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.)

N5289D AIRFRAME LOG

August 2, 2018 Hobbs 1336.5 Replaced left main tire with new Michelin 6.00-6 PIN 071-314-0 as needed. Serviced oxygen
as needed.

The Aircraft, Airframe, Engine Component, or Appliance identified above was repaired or overhauled in accordance with
current Federal Aviation regulations and was determined to be airworthy for return to service. Pertinent details on the repair
are on file at this repair station under work order.

No. SO-04793

Authorized Signature

[Signature]

Maine Aero Services, Inc

154 Maine Ave

Bangor, Maine 04401

207-990-5555



CRS#6MXR656B

YEAR	RECORDING	TODAY'S	TOTAL	Description of Inspections, Tests, Repairs and Alterations
				UNITED FLIGHT SERVICES 120 Aviation Way, Watsonville, CA 95076 December 15, 2018 <u>N5289D</u> Tach Time: 883.8 Changed oil and serviced engine with Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Removed fuel flow transducer and soaked in penetrating oil. Reinstalled transducer. Replaced stock TIT probe with new probe from KS Avionics. Run up, leak check and ops check good. Terence M. McKenna  A&P 569948254 IA
				UNITED FLIGHT SERVICES 120 Aviation Way, Watsonville, CA 95076 January 23, 2019 <u>N5289D</u> Tach Time: 885.8 Jacked aircraft & removed nose wheel assembly, aired tire to spec. Checked wheel bearings. Spin balanced wheel assembly & reinstalled. Checked steering linkage. Replaced gear warning circuit breaker with new Klaxon 7277-2-1.5 breaker. Performed several retraction cycles without fault. Terence M. McKenna  A&P 569948254 IA

YEAR	RECORDING	TODAY'S	TOTAL	Description of Inspections, Tests, Repairs and Alterations
20				April 21, 2019 Troubleshoot Removed HSI calibrated OBS with C Troubleshoot aircraft, removed bell Found shorted gear in JK-PL17A to annunciator flawless. Re-installed Tyler Veatch

Inspections, Tests, Repairs and Alterations

if (s.)

6

Tach Time: 883.8

ell 15W/50. Changed oil filter and removed fuel flow transducer and placed stock TIT probe with new check good.

A&P 569948254 IA

6

Tach Time: 885.8

bly, aired tire to spec. Checked installed. Checked steering linkage. kon 7277-2-1.5 breaker. Performed

A&P 569948254 IA

YEAR
20
DATE

RECORDING
TACH
TIME

TODAY'S
FLIGHT

TOTAL
TIME IN
SERVICE

Description of Inspections, Tests, Repairs and Alterations
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UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

N5289D

April 21, 2019

Tach Time: 888.9

Troubleshoot inop clock, replaced blown 5A fuse at master relay. Ops check good.

Removed HSI for repair by Mid-Continent. See Form 8130-3. Reinstalled HSI & calibrated OBS with Garmin 530.

Troubleshoot intermittent tripping of gear warning/gear relay circuit breakers, jacked aircraft, removed belly panel, removed glareshield, removed pilot side cabin sidewall panel. Found shorted gear unsafe annunciator wire JK-WE16A22. Routed new wire from connector JK-PL17A to annunciator panel. Performed several gear retraction cycles, Function check flawless. Re-installed belly panel, glareshield & pilot side cabin sidewall panel.

Tyler Veach

Tyler Veach A&P 3428359

RMED.
1 / 11 Nov 2015

1. Approving Civil Aviation
Authority/Country:

2.

3. Form Tracking Number:
000358312

FAA/United States

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

4. Organization Name and Address:



16320 Staggy Street
Van Nuys CA 91406
FAA CRS OL2D061L

5. Work Order/Contract/Invoice Number

200929718

6. Item:

7. Description:

8. Part number:

9. Quantity:

10. Serial number:

11. Status/Work:

1 Pictorial Navigation Indicator

066-3046-00
KI-525A

1

33450

Repaired

12. Remarks:

THE WORK ORDER REFERENCED DESCRIBES THE ACTUAL WORK PERFORMED.
ALL WORK WAS PERFORMED REF. MANUAL #006-15621-0007 / 8 Temp rev 1 / 11 Nov 2015

13a. Certifies the items identified above were manufactured in conformity to:

- ☐ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 12.

13b. Authorized signature:

13c. Approval/Authorization No.:

14a. ☒ 14 CFR 43.9 Return to service ☐ Other regulation specified in Block 12

Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service.

14b. Authorized signature:

14c. Approval/Certificate No.:

14d. Date (dd/mm/yyyy):

FAA CRS OL2D061L

08/Apr/2019

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine (s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by user/installer before the aircraft may be flown.

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.)

Livermore, CA
Registration #QJ4R856X
FAX (925) 449-6081

static system(s) tests required under tests as required by § 91.217, to comply with 14 CFR Part

Time: 840.4
N 52870
Date 5/16/19

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.)

YEAR 20
DATE

RECORDING TACH TIME

TOTAL TIME IN SERVICE



UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

N5289D

June 1, 2019

Tach Time: 890.4

Total Time: 2264.1

I certify that this aircraft has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Replaced ELT battery pack. Battery expires December 2020. Inspected & tested ELT in accordance with CFR Part 91. 207d & found to be satisfactory. Tested lights and electrical systems. Inspected vacuum system, back up vacuum pump and vacuum system filters. Inspected fuel tank caps and seals. Cleaned fuel strainer screen. Serviced oxygen bottle with ABO and leak checked system. Jacked aircraft and greased all landing gear grease fittings. Tested downlock overcenter tensions. Performed retraction cycle and emergency extension. Checked brakes and reservoir. Lubed all flight control and landing gear rod ends, bearings and hinges with silicon. See Airworthiness Directive Compliance Checklist for compliance & next due dates and times.

Charles J Howard

A&P 3278541 IA

YEAR 20	RECORDING TACH TIME	TODAY'S 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.)
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33 Al McKay Ave • Portland International Airport • Portland, ME 04102
(207) 780-1811 • Fax (207) 772-6900



CRS F5ER011E

Date	WO#	Registration	Type/Model	SN	TACH
7/1/2019	44050	N5289D	Mooney M20K	25-1192	908.1

Removed GNS 530 GPS/NAV/COM and KMA 24 Audio Panel. Inspected connectors on GNS 530 with no defects noted. Reinstalled GNS 530 then KMA 24 to avoid faceplate interference. Performed ground operational check with no defects noted.

Jacked aircraft and accessed landing gear indication switches. Cleaned and lubricated switches. Cycled landing gear with no defects noted. Reinstalled items removed for access.

I certify that this aircraft was repaired and inspected in accordance with current Regulations of the FAA and is approved for return to service with respect to the work performed.

Signature

CRS FSR011E
Type and Certificate Number

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.)

Portland International Airport • Portland, ME 04102
 • Fax (207) 772-6900

FSER011E

TACH	
192	908.1
GNS 530 with no defects noted. Reinstalled GNS	
with no defects noted.	
itches. Cycled landing gear with no defects noted.	

regulations of the FAA and is approved for return to

CRS FSER011E

Type and Certificate Number

MAC Aircraft

MAINTENANCE

Date	WO#	Registration	Type/Model	SN	Tach	ACTT
7/16/2019	44124	N5289D	Mooney M20K	25-1192	909.9	

Inspected GNS530W com coax connection.
 Re-tensioned contacts at KMA24 audio panel connector.
 Removed KNS80, p/n 066-4008-00, s/n 15735 for repair.
 Complied with Garmin SB 1903, Rev A "GTX345 Software 2.52"
 Complied with Garmin SB 1766, Rev A "GNS530W Software 5.40"
 I certify that this aircraft was repaired and inspected in accordance with current Regulations of the FAA and is approved for return to
 service with respect to the work performed.

Signature

CRS FSER011E

Type and Certificate Number

MAC Aircraft

MAINTENANCE

Date	WO#	Registration	Type/Model	SN	Tach	ACTT
7/29/2019	44183	N5289D	Mooney M20K	25-1192	911.8	

Installed repaired KNS80, p/n 066-4008-00, s/n 15735 an tested with no defects noted.

I certify that this aircraft was repaired and inspected in accordance with current Regulations of the FAA and is approved for return to
 service with respect to the work performed.

Signature

CRS FSER011E

Type and Certificate Number

406 Yellowbird Road • Portland International Airport • Portland, ME 04102
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406 Yellowbird Road • Portland International Airport • Portland, ME 04102
 (207) 780-1811 • Fax (207) 772-6900

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: W.O.# AVR-44140	
4. Organization Name and Address: Maine Aviation Aircraft Maintenance LLC. 406 Yellowbird Road, Portland, Maine 04102				5. Work Order/Contract/Invoice Number: PO.#34527	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	BENDIX/KING KNS80 RNAV/DME	066-4008-00	1	15735	REPAIRED
12. Remarks: COMPLIED WITH REPAIR AND REPLACEMENT OF MINOR HARDWARE BENCH CHECKED WITH NO FURTHER DISCREPANCIES NOTED UNIT FUNCTION TESTED PER BENDIX/KING KNS80 MAINTENANCE MANUAL REV. 3 JULY 1984 P/N 006-05154-0003					
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in Block 12.		14a. ☒ 14 CFR 43.9 Return to Service Certifies that unless otherwise specified in block 12, the work identified in Block 11 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.		☐ Other regulation specified in Block 12	
13b. Authorized Signature:		13c. Approval/Authorization No.:		14c. Approval/Certificate No.: FSER011E	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Date (dd/mm/yyyy): 19/JUL/2019	
User/Installer Responsibilities					
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.					

YEAR 20	DATE	RECORDING TACH TIME	TODAY'S 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.)
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MAC Aircraft

MAINTENANCE

406 Yellowbird Road • Portland International Airport • Portland, ME 04102
(207) 780-1811 • Fax (207) 772-6900

Date	WO#	Registration	Type/Model	SN	Tach	ACTT
8/12/2019	44241	N5289D	Mooney M20K	25-1192	913.5	

Modified GTX345 config SIL from AUTO to 10E7 per Garmin tech support recommendation.
I certify that this aircraft was repaired and inspected in accordance with current Regulations of the FAA and is approved for return to service with respect to the work performed.

Signature _____ CRS FSR011E
Type and Certificate Number

N5289D ENGINE LOG ENTRY

September 9, 2019 Hobbs:
Drained oil and inspected oil filter. Serviced engine with 12 quarts Aeroshell W15W50 oil and one new CH48109-1 oil filter. Ground run up good with no leaks noted.

The Aircraft, Airframe, Engine Component, or Appliance identified above was repaired or overhauled in accordance with current Federal Aviation regulations and was determined to be airworthy for return to service. Pertinent details on the repair are on file at this repair station under work order.

No. SO-05163
Authorized Signature 

Maine Aero Services, Inc.
154 Maine Ave
Bangor, Maine 04401
207-990-5555



CRS#6MXR656B

Inspections, Tests, Repairs and Alterations

(Name, Rating and Certificate Number of
See back pages for other specific entries.)

Portland Airport • Portland, ME 04102
(207) 772-6900

Tach	ACTT
913.5	

Inspections of the FAA and is approved for return to

CRS FSR011E
Type and Certificate Number

engine with 12 quarts Aeroshell
noted.

aired or overhauled in accordance with
n to service. Pertinent details on the

ices, Inc.

4401



YEAR

20

DATE



UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

N5289D

November 22, 2019

Tach Time: 937.9

Re-racked GNS 530W and replaced GPS antenna. Ops checked system and found
to operate normally.

Terence M. McKenna

Terence M. McKenna

A&P 569948254 IA

1. Approver/Civil Aviation Authority Country FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number 6802027	
4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215					
6. Item 50	7. Description FILTER OIL	8. Part Number CH48109-1	9. Quantity 1	10. Serial Number N/A	11. Status Work New
12. Remarks:					
AUTHORIZED RELEASE DOCUMENT					
13a. Certifies the items identified above were manufactured in conformity to: ☒ Approved design data and are in a condition for safe operation ☐ Non-approved design data specified in Block 12.					
13b. Authorized Signature: <i>David J. Miller</i>		13c. Approval Authorization No. PC4		14. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12 Certifies this release otherwise specified in Block 12, the work identified in Block 12 was accomplished in accordance with Table 14, Code of Federal Regulations part 13 and in respect to that work, the items are approved for return to service.	
13d. Name (Typed or Printed): DAVID J. MILLER		13e. Date (dd/mm/yyyy): 03/Jul/2019		14b. Authorized Signature	
				14c. Name (Typed or Printed): (dd/mm/yyyy)	
14d. Approval Certificate No.					
14e. Date (dd/mm/yyyy)					
User/Installer Responsibilities					
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine propeller article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority, different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority ascertains aircraft engine's propeller's airworthiness from the airworthiness authority of the country specified in Block 1.					
Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, air part maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.					

YEAR 20	RECORDING TACH TIME	TODAY'S 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.)
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UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

N5289D

June 1, 2020 Tach Time: 943.5 Total Time: 2317.2

I certify that this aircraft has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Inspected & tested ELT in accordance with CFR Part 91. 207d & found to be satisfactory. ELT battery expires December 2020.

Tested lights and electrical systems. Inspected vacuum system, back up vacuum pump and vacuum system filters. Inspected fuel tank caps and seals. Cleaned fuel strainer screen. Serviced oxygen bottle with ABO and leak checked system. Jacked aircraft and greased all landing gear grease fittings. Tested downlock overcenter tensions. Performed retraction cycle and emergency extension. Adjusted all gear doors for fit and fair. Checked brakes and reservoir. Replaced L/H brake linings. Lubed all flight control and landing gear rod ends, bearings and hinges with silicon. See Airworthiness Directive Compliance Checklist for compliance & next due dates and times.

Terence M. McKenna *Terence M. McKenna* A&P 569948254 IA

YEAR 20	DATE	RECORDING TACH TIME	TODAY'S 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.)
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					 UNITED FLIGHT SERVICES 120 Aviation Way, Watsonville, CA 95076 January 7, 2020 <u>N5289D</u> Removed JPI-701 engine analyzer and sent to manufacturer for fuel flow upgrade. Reinstalled unit and routed harness to transducer along existing bundle. Serviced oxygen system to 1500 psi. Tach Time: 940.1 Terence M. McKenna  A&P 569948254 IA
--	--	--	--	--	---

					 UNITED FLIGHT SERVICES 120 Aviation Way, Watsonville, CA 95076 December 17, 2020 <u>N5289D</u> Removed R/H brake caliper. Disassembled, cleaned and inspected. Polished cylinder bore. Replaced piston o-ring with new MS28775-224. Reassembled caliper and reinstalled. Bled brake line and topped off brake reservoir. Ops checked brake. Tach Time: 947.9 Terence M. McKenna  A&P 569948254 IA
--	--	--	--	--	---

YEAR 20	DATE	RECORDING TACH TIME	TODAY'S 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.)
------------	------	---------------------------	-------------------	-----------------------------	---

					Total Time: 2317.2 ... accordance with an annual ... Part 43 Appendix D and has ... & tested ELT in accordance with ... y expires December 2020. ... stem, back up vacuum pump ... seals. Cleaned fuel strainer ... ked system. Jacked aircraft and ... overcenter tensions. Performed ... ear doors for fit and fair. ... ss. Lubed all flight control and ... See Airworthiness Directive ... and times. A&P 569948254 IA
--	--	--	--	--	--

RF
T/
TI

Precision Static Testing
FAA Certified Repair Station #QJAR856X
PHONE: (925) 449-5904 FAX (925) 449-6081

Tests, Repairs and Alterations
, Rating and Certificate Number of
(Check pages for other specific entries.)

I certify that the altimeter(s) and static system(s) tests required by 14 CFR § 91.411 and transponder tests as required by § 91.413, including data correspondence, required by § 91.217, have been performed and found to comply with 14 CFR Part 43, Appendix E and F.

Tested to 306 feet.

Time: 954.9

W/O# 19272

N 52890

Inspected by R

Date 5/6/2021



UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

N5289D

June 7, 2021

Tach Time: 956.4

Total Time: 2330.1

I certify that this aircraft has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Replaced ELT battery, new battery expires July 2023. Inspected & tested ELT in accordance with CFR Part 91.207d & found to be satisfactory. Tested lights and electrical systems. Replaced both main batteries with new Concorde RG35 AXC's. Inspected vacuum system, back up vacuum pump and vacuum system filters. Inspected fuel tank caps and seals. Cleaned fuel strainer screen. Removed oxygen bottle and regulator. Sent to C&L Aero for bottle replacement and regulator test. Reinstalled oxygen bottle and leak check good. Jacked aircraft and greased all landing gear grease fittings. Tested downlock overcenter tensions. Performed retraction cycle and emergency extension. Checked brakes and reservoir. Replaced R/H brake caliper housing. Replaced piston O-Ring and both brake linings. Bled brake line and topped off reservoir. Lubed all flight control and landing gear rod ends, bearings and hinges with silicon. Replaced empennage piano hinge assembly, rerigged trim indicator. See Airworthiness Directive Compliance Checklist for compliance & next due dates and times.

Terence M. McKenna

A&P 569948254 1A

Repairs and Alterations

and Certificate Number of
for other specific entries.)

Tested to: 304
W.O. #: 19
Precision Static Testing FAA CRS# QJAR856X
PILOT / FIRST OFFICER / STAND-BY
Form 1A
02 / 08 Jan 2007

Total Time: 2330.1

Visual inspection consistent
found to be in airworthy
& tested ELT in accordance
with systems. Replaced both
back up vacuum pump and
liner screen. Removed
regulator test. Reinstalled
gear grease fittings. Tested
tension. Checked brakes
and both brake linings.
and landing gear rod ends, bearings and
ly, rigged trim indicator. See
next due dates and times.

A&P 569948254 IA

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.)

YEAR
20
DATE

RECORDING
TACH
TIME

TODAY'S
FLIGHT

TOTAL
TIME IN
SERVICE



UNITED FLIGHT SERVICES
120 Aviation Way. Watsonville, CA 95076
N5289D

December 20, 2021

Tach Time: 957.3

Troubleshoot soft brake pedals. Found L/H brake line hydraulic fluid contaminated & too viscous for
proper flow. Flushed out hydraulic fluid, back bled lines & topped off reservoir. Ops checked brakes,
good.

Terence M. McKenna

Terence M. McKenna

A&P 569948254 IA



UNITED FLIGHT SERVICES
120 Aviation Way. Watsonville, CA 95076
N5289D

May 9, 2022

Tach Time: 968.3

Removed both main batteries. Recharged on controlled current charger for 24 hours.
Reinstalled batteries.

Terence M. McKenna

Terence M. McKenna

A&P 569948254 IA

YEAR
20
DATE



UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

N5289D

June 1, 2022

Tach Time: 968.5

Total Time: 2342.2

I certify that this aircraft has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Inspected & tested ELT in accordance with CFR Part 91. 207d & found to be satisfactory. ELT battery expires July 2023. Tested lights and electrical systems. Inspected vacuum system, back up vacuum pump and vacuum system filters. Inspected fuel tank caps and seals. Cleaned fuel strainer screen. Serviced oxygen bottle and leak check good. Jacked aircraft and greased all landing gear grease fittings. Tested downlock overcenter tensions. Performed retraction cycle and emergency extension. Checked brakes and reservoir. Replaced piston O-Ring on L/H brake. Bled brake line and topped off reservoir. Replaced DME antenna. Lubed all flight control and landing gear rod ends, bearings and hinges with silicon. See Airworthiness Directive Compliance Checklist for compliance & next due dates and times.

Terence M. McKenna

A&P 569948254 1A



UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

N5289D

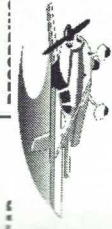
September 28, 2022

Tach Time: 978.8

Replaced nose wheel tire with new Michelin air 5.00-5. Aired tire to spec and repacked wheel bearings.

Terence M. McKenna

A&P 569948254 1A



United Flight Services
120 Aviation Way, Watsonville, CA 95076

Documentation of Inspections, Tests, Repairs and Alterations

Total Time: 2342.2

I certify that this aircraft has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Replaced ELT battery. New battery expires July 2025. Inspected & tested ELT in accordance with CFR Part 91. 207d & found to be satisfactory. Tested lights and electrical systems. Replaced both main batteries with new concord RG-35A's. Inspected vacuum system, back up vacuum pump and vacuum system filters. Inspected fuel tank caps and seals. Cleaned fuel strainer screen. Replaced oxygen fill valve due to leakage. Serviced oxygen bottle with ABO. Leak checked valve and lines. Jacked aircraft and greased all landing gear grease fittings. Tested downlock overcenter tensions. Replaced R/H MLG tire with new Condor 6.00-6. Dynamically balanced all wheel assemblies and repacked all wheel bearings. Performed retraction cycle and emergency extension. Checked brakes and reservoir. Replaced O-rings seals in L/H master cylinder and R/H wheel cylinder. Replaced all brake linings. Bled brake lines and topped off reservoir. Lubed all flight control and landing gear rod ends, bearings and hinges with silicon. See Airworthiness Directive Compliance Checklist for compliance & next due dates and times.

A&P 569948254 IA

Terence M. McKenna

A&P 569948254 IA

Tach Time: 978.8

00-5. Aired tire to spec and repacked

A&P 569948254 IA

June 1, 2023

N5289D

Tach Time: 987.0

Total Time: 2360.7

RECI
TACI
TIME

Precision Static Testing
FAA Certified Repair Station #QJAR856X
PHONE: (925) 449-5904

ts, Repairs and Alterations
Rating and Certificate Number of
pages for other specific entries.)

I certify that the altimeter(s) and static system(s) tests required by 14 CFR § 91.411 and transponder tests as required by § 91.413, including data correspondence, required by § 91.217, have been performed and found to comply with 14 CFR Part 43, Appendix E and F.

Tested to 3064 feet.

Time: 9:55.9

W/O# 22851

N 52890

Inspected by [Signature]

Date 5/13/11

MAC Aircraft

M A I N T E N A N C E

406 Yellowbird Road • Portland International Airport • Portland, ME 04102
(207) 780-1811 • Fax (207) 772-6900

CRS FSR011E

Date	WO#	Registration	Type/Model	SN	Tach	ACTT
10/02/23	50064	N5289D	M20K	25-1192	1004.3	2378.0

- Serviced oxygen to full.

I certify that this aircraft was repaired and inspected in accordance with current Regulations of the FAA and is approved for return to service with respect to the work performed.

[Signature]
Signature

CRS FSR011E

Type and Certificate Number

MAC

ACTT
2378.0

AA and is approved for return to

CRS FSER011E

Type and Certificate Number

service with respect to the work performed

Signature _____

[illegible]

Repairs and Alterations
and Certificate Number of
is for other specific entries.)

Precision Static Testing FAA CRS# QJAR856X

PILOT / FIRST OFFICER / STAND-BY

Form 1A

ME 04102

h ACTT
3 2378.0

AA and is approved for return to

CRS FSER011E

Type and Certificate Number

MAC Aircraft
MAINTENANCE

406 Yellowbird Road • Portland International Airport • Portland, ME 04102
(207) 780-1811 • Fax (207) 772-6900

CRS FSER011E

Date	WO#	Registration	Type/Model	SN	Tach	Hobbs
10/4/2023	49540	NS289D	Mooney M20K	25-1192	1004.3	1339.6

Reference FAA Form 337, dated October 3, 2023 for details of the following:

- Removed existing instruments, engine gauges, autopilot, ELT, fuel senders, stormscope, audio panel, intercom, #2 com, #2 nav. Ref equipment list.
- Installed a Garmin G500TXi Integrated Avionics System in accordance with STC SA02571SE.
Equipment installed: GDU1060 Display, p/n 011-03308-30, s/n 3M5004775; GDU1060 ADC, p/n 011-03457-01, s/n 3MD200190; GMU44B magnetometer, p/n 011-04201-00, s/n 4WT008527; GTP59 OAT, p/n 011-00978-00, s/n 47981542; GEA110, p/n 011-03454-01, s/n 68L003290. Ref equipment list/wiring diagrams for sensors.
Enabled synthetic vision.
This alteration and G600 TXi STC Maintenance Manual, p/n 190-01717-B1, Rev. 8, are now part of this aircraft's inspection/maintenance requirements.
- Installed a Garmin G1275 Standby Instrument in accordance with STC SA02658SE.
Equipment installed: G1275 ADAHRS, p/n 011-04489-10, s/n 5MZ115295; G1275 Battery pack, p/n 011-04528-00; GPS antenna, p/n 011-04036-10, s/n 641005995.
This alteration and Instructions for Continued Airworthiness contained in the Maintenance Manual, Doc. 190-02246-11, Rev 7, are now part of this aircraft's inspection/maintenance requirements.
- Installed a Garmin GTN750Xi Navigation System in accordance with STC SA02019SE-D.
Equipment installed: GTN750Xi, p/n 011-04634-01, s/n 5FR051821; FS510, p/n 011-03595-00, s/n 402020983; GA35 GPS antenna, p/n 013-00235-00, s/n 224749; GMA35c audio panel, p/n 011-02299-40, s/n 1T6206198.
This alteration and Garmin GTN Xi Instructions for Continued Airworthiness contained in Doc. 190-01007-C1, Rev. 3, are now part of this aircraft's inspection/maintenance requirements.
- Installed a Garmin GFC500 Automatic Flight Control System in accordance with STC SA01866W1.
Equipment installed: GMC507 Computer, p/n 011-04548-01, s/n 5H1105346; 3 each GSA28 Servos, p/n 011-02927-21, s/n 6N2012615(Pitch), 6N2012561 (Roll), 6N2012653(Trim).
This alteration and GFC 500 STC Maintenance Manual, p/n 190-02291-01, Rev. 11, are now part of this aircraft's inspection/maintenance requirements.
- Installed CIES Inc STC SA02511SE, "Installation of replacement fuel quantity indicator sending units"
Installed senders, p/n CC284022-0706-101 (LH-IB), s/n MY1400; p/n CC284022-0707-101 (LH-OB), s/n MY1402; p/n CC284022-0706-102 (RH-IB), s/n MY1401; and p/n CC284022-0707-102 (RH-OB), s/n MY1403.
This alteration and the Instructions for Continued Airworthiness, contained in CIES document CC-TR-2840-031, Rev F, are now part of this aircraft's inspection/maintenance requirements.
Installed Alcor STC SA525SW, "Installation of Exhaust Gas Temperature (EGT), Cylinder Head temperature (CHT) components/systems"

YEAR	RECORDING	TODAY'S	TOTAL	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.)
20	TACH	FLIGHT	TIME IN	
DATE	TIME		SERVICE	

Minor Alterations

1. Fabricated new pilot instrument panel from .090" 2024T3 aluminum per AC43.13-1B/2B. Painted and placarded as required per the AFM.
2. Installed an Artex ELT345, kit p/n 8102, s/n 324-01924 IAW the installation manual Y1-03-0282, Rev P. Complied with FAR 91.207 para (d) inspection requirements. *Required battery replacement date is February 2030.* Hex ID: 2DC8A20F08FFBFF.
3. Performed analysis of the above minor alterations and determined that these alterations do not meet the criteria to be considered major alterations. All Work was done in accordance with the applicable sections of AC43.13 1B/2B.

Removed GTX345 transponder, p/n 011-00302-00, s/n 3EG007375 and reinstalled after Garmin repair.

Repaired 5 wires for master warning panel that were chafing on the radio rack.

Replaced broken camloc in upper engine cowl.

Repaired broken wire at pilot map light and replaced bulb, p/n 327.

Complied with Garmin SB 23074, Rev A "GTN750Xi/650Xi Software 20.31"

Complied with Garmin SB 23089, Rev A "G500 TXi Software 3.51"

Complied with Garmin SB 23086, Rev A "GI275 Software 3.01"

Complied with Garmin SB 22104, Rev B "GTX345 Main Software 2.80"

Complied with Garmin SB 23036, Rev A "GTX345 ADS-B Software 3.41"

Complied with Garmin SB 23050, Rev A "FlightStream 510 Software 2.80"

The equipment list and weight and balance has been updated.

Performed compass calibration and placarded in accordance with FAR 23.1547.

Serviced tires with nitrogen.

Performed 24 month certifications of the following equipment to 20,000 ft: GDU1060 ADC, p/n 011-03457-01, s/n 3MD200190; GI275 ADAHRS, p/n 011-04489-10, s/n 5MZ115295; GTX345 transponder, p/n 011-00302-00, s/n 3EG007375. The altimeter system & altitude reporting equipment tests & inspections required by FAR part 91.411 paragraph (a.1) have been performed & found to comply with FAR part 43 Appendix E & F and is approved for return to service. The ATC transponder tests and inspections required by FAR part 91.413 paragraph (a) have been performed and found to comply with FAR part 43 Appendix F and is approved for return to service. The installed ADS-B Out system was shown to meet the equipment performance requirements of 14 CFR section 91.227. The installed ADS-B Out system was shown to meet the equipment performance requirements of 14 CFR section 91.227.

I certify that this aircraft was repaired and inspected in accordance with current Regulations of the FAA and is approved for return to service with respect to the work performed.

Signature	CRS FSR011E	Type and Certificate Number
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Sections, 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.)

YEAR MO DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE
--------------------	---------------------------	-------------------	-----------------------------

UNITED FLIGHT SERVICES
 120 Aviation Way, Watsonville, CA 95076

N5289D

Tach Time: 1026.3
 See Form 8130-3.

Terence M. McKenna

A&P 569948254 IA

UNITED FLIGHT SERVICES
 120 Aviation Way, Watsonville, CA 95076



N5289D

Tach Time: 1034.7

May 26, 2024

During post annual inspection run up it was found that the engine would die at low power settings when the boost pump was turned off. When testing low end fuel pressure (600 RPM), pressure was found to be too low. After adjusting pressure to 6 psi it was found to be unstable. Removed fuel pump and replaced relief valve diaphragm, relief valve spring and both relief valve o-rings. Reinstalled pump and pressure tested with boost pump. Found no leaks at pump but fuel leaking from injector mixture shaft. Removed injector shaft and replaced o-ring. Reinstalled injector and pressure tested with boost pump. No leaks found. Adjusted low power and high power fuel pressures, idle speed and idle mixture.

Terence M. McKenna

A&P 569948254 IA

Terence M. McKenna

CRS FSER011E

Type and Certificate Number

Sections, 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.)

8.13-1B/2B. Painted and placarded as required per the

Manual Y1-03-0282, Rev P. Complied with FAR 91.207

ary 2030. Hex ID: 2DC8A20F08FFBF.

AC43.13 1B/2B.

Garmin repair.

DC, p/n 011-03457-01, s/n 3MD200190: G1275
 00, s/n 3EG007375. The altimeter system & altitude
 have been performed & found to comply with FAR part
 and inspections required by FAR part 91.413 paragraph (a)
 ved for return to service. The installed ADS-B Out system
 7. The installed ADS-B Out system was shown to meet the

Regulations of the FAA and is approved for return to

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 465322	
4. Organization Name and Address Continental Motors, Inc. 2039 Broad Street, Mobile, Alabama 36615				5. Work Order/Contract/Invoice Number: EPN 509605 Custom 0000196629	
6. Item:		7. Description	8. Part Number:	9. Quantity:	10. Serial Number:
1		SEAL-"O" RING	630979-12	6	N/A
11. Status/Work: NEW					

12. Remarks:

AIRWORTHINESS APPROVAL

13a. Certifies the items identified above were manufactured in conformity to:

☒ Approved design data and are in condition for safe operation

☐ Non-approved design data specified in Block 12.

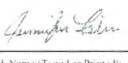
13b. Authorized Signature <i>Thomas H Howard</i>	13c. Approval/Authorization No: 937042831
13d. Name (Typed or Printed): Thomas H. Howard	13e. Date (dd/mm/yyyy): 26/Apr/2016

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

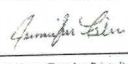
Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 7778760	
4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215						5. Work Order/Contract/Invoice Number: 4380122	
6. Item: 1040	7. Description: SPRING	8. Part Number: 628311	9. Quantity: 1	10. Serial Number: N/A	11. Status/Work: New		
12. Remarks: AUTHORIZED RELEASE DOCUMENT PO#: POV1932							
13a. Certifies the items identified above were manufactured in conformity to: ☒ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.		14a. ☐ 14 CFR 43.9 Return to Service. ☐ Other regulation specified in Block 12. Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.					
13b. Authorized Signature: 		13c. Approval/Authorization No.: PC4		14b. Authorized Signature		14c. Approval/Certificate No.:	
13d. Name (Typed or Printed): JENNIFER FISHER		13e. Date (dd/mm/yyyy): 22/Jun/2021		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

FAA Form 8130-3 (02-14)

NSN: 0052-00-012-9005

Page 211 of 291

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 7778760	
4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215						5. Work Order/Contract/Invoice Number: 4412013	
6. Item: 600	7. Description: DIAPHRAGM	8. Part Number: 642644	9. Quantity: 1	10. Serial Number: N/A	11. Status/Work: New		
12. Remarks: AUTHORIZED RELEASE DOCUMENT Lot/Batch # 7365640840 PO#: POV1932							
13a. Certifies the items identified above were manufactured in conformity to: ☒ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.		14a. ☐ 14 CFR 43.9 Return to Service. ☐ Other regulation specified in Block 12. Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.					
13b. Authorized Signature: 		13c. Approval/Authorization No.: PC4		14b. Authorized Signature		14c. Approval/Certificate No.:	
13d. Name (Typed or Printed): JENNIFER FISHER		13e. Date (dd/mm/yyyy): 19/Jul/2021		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

FAA Form 8130-3 (02-14)

NSN: 0052-00-012-9005

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 7799912	
4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215						5. Work Order/Contract/Invoice Number: 4421202	
6. Item: 400	7. Description: SEAL	8. Part Number: 630979-14	9. Quantity: 1	10. Serial Number: N/A	11. Status/Work: New		
12. Remarks: AUTHORIZED RELEASE DOCUMENT Lot/Batch # 7365550280 PO#: POV2147							
13a. Certifies the items identified above were manufactured in conformity to: ☒ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.		14a. ☐ 14 CFR 43.9 Return to Service. ☐ Other regulation specified in Block 12. Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.					
13b. Authorized Signature: 		13c. Approval/Authorization No.: PC4		14b. Authorized Signature		14c. Approval/Certificate No.:	
13d. Name (Typed or Printed): PAUL F MAYER		13e. Date (dd/mm/yyyy): 26/Jul/2021		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

FAA Form 8130-3 (02-14)

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.)

Total Time: 2408.4

an annual inspection consistent
 determined to be in airworthy
 d & found to be satisfactory. ELT
 100%. Load tested batteries and
 items. Removed avionics master
 ected vacuum system, back up
 seals. Cleaned fuel strainer
 nd greased all landing gear
 tion cycle and emergency
 iding gear rod ends, bearings and
 or compliance & next due dates

A&P 569948254 IA

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.)

YEAR 20
 DATE

RECORDING TACH TIME

TOTAL TIME IN SERVICE



UNITED FLIGHT SERVICES
 120 Aviation Way, Watsonville, CA 95076

N5289D

March 26, 2024

Replaced L/H MLG tire with new Michelin Air Tire 600-6 6ply. Replaced wheel bearings and aired tire to spec.

Tach Time: 1339.6

Terence M. McKenna

A&P 569948254 IA

AIRFRAME LOG BOOK ENTRY

23-November-2024

Reg: N5289D SN: 25-1191

Mfr & Model: Mooney M20K

ACFT HOBBS: ACFT Tach:

INSTALLED GAMI G100UL® UNLEADED AVGAS PLACARDS NEAR EACH FUEL FILLER PORT ON THE AIRCRAFT
 IAW INSTALLATION INSTR. 06-6560003, PMA PQ821SW, AND STC SA01967WI. NO CHANGE IN WEIGHT/BALANCE.
 APPROVED FOR RETURN TO SERVICE.

Travis Nansel A&P 2636016IA

ENGINE LOG

DATE	R.P.M.	
	Ground	Air
10-5-95		
MARCH 3, 1996		
BROUGHT FORWARD		
TOTALS		

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Hrs.	Min.			
5-17-95	7:24h	0:10	77	49.0	CHANGED OIL & FILTER - SERVICED 11 QTS AS 15W50.	THOMAS A. ROUGH	5-17-95	77	49.0	THOMAS A. ROUGH	5-17-95	77
TOP GUN AVIATION I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A CAA/FAA INSPECTION AND IS AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. DATE 5-17-95 TOTAL TIME 20.10 TACH TIME 9:00 RO. 3732 THOMAS A. ROUGH A & P 549447166 IA												
BROUGHT FORWARD TOTALS												

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND		TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Hrs.	Min.			
10-5-95	TACH	48.9	TT	97.9	CHANGED OIL & SERVED w/ 10 1/2 gts Aeroshell							
					15W50 CHANGED OIL FILTER							
					COMPLIED WITH ROCKET ENGINEERING MSB 95-305-01							
					BY INSPECTING TURBOCHARGER MOUNT & EXHAUST TRANS-							
					ITION TUBING NO CRACKS FOUND.							
					INSTALLED NEW OIL SUMP QUICK DRAIN (AEROQUIP.)							
					Charles McKinnon 569948254JA							
MARCH 3, 1996					TOTAL 116.5							
					I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED							
					IN ACCORDANCE WITH AN ANNUAL INSPECTION AND							
					HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION							
					Charles McKinnon 569948254JA							
					COMP. #1 76/80 #2 73/80 #3 78/80 #4 77/80 #5 73/80 #6 76/80							
					CHANGED OIL & FILTER CART SERVED WITH 10 gts							
BROUGHT FORWARD												
TOTALS												

[illegible]

This engine model TS10520NB17B, Serial No. 290697-R, was rebuilt/zero timed on 09/02/94 by Teledyne Continental Motors in accordance with an FAA approved Quality Control System, using FAA approved Engineering design data and the applicable requirements of FAR Part 21 of the Federal Aviation Regulations. The approved design data for this engine incorporated the following Service Bulletins and Airworthiness Directives.

SB	AD	REMARKS	SB	AD	REMARKS
M79-2	79-05-09	REPLACED WITH NEW PART	N/A	91-19-03	OIL FILTER CHANGE
M80-26	81-24-06	TORQUE CHECK	M92-6	N/A	ROCKER SHAFT RETENTION IMPROVEMENT
M82-5	82-09-01	VISUAL / FUEL SEEPAGE	M92-14	N/A	VISUAL INSPECTION FOR DATE
M86-7	86-13-04	REPLACE WITH NEW PARTS	M93-9	93-16-15	PROPER SHAFT & COUPLING INSTALLED
M87-5	87-23-08	CRANKSHAFT ULTRASONIC INSPECTION	MSB93-12	93-10-02	N/A SERIAL NUMBER NOT APPLICABLE
M88-4	88-03-06	REPLACED WITH NEW PARTS	CSB94-1	94-06-09	REPLACED CAPACITOR AS APPLICABLE
M90-6	89-24-01	REPLACED WITH NEW PARTS			
M90-21	N/A	ULTRASONIC INSPECTION OF BARRELS			
M91-6	N/A	ULTRASONIC INSPECTION OF BARRELS			
M91-7	N/A	ULTRASONIC INSPECTION OF BARRELS			

Records reflecting this rebuilding are on file at Teledyne Continental Motors, P.O. Box 90, Mobile, Alabama, 36601.

TELEDYNE CONTINENTAL MOTORS
PRODUCTION CERTIFICATE NO. 508

Handwritten signature

ENGINE LOG

[illegible]

ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Hrs.			
JUNE 20, 1996			TACH	79.1					CHANGED OIL & FILTER / AEROSHELL 15W50	SERVED WITH 119ts	
APRIL 6, 1997			TACH 120.3						James M. McKinnon	A&P 569948254	
			I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN								
			ACCORDANCE WITH AN ANNUAL INSPECTION AND HAS BEEN DETERMINED								
			TO BE IN AIRWORTHY CONDITION James M. McKinnon 569948254								
			COMPRESSION #173/80 #271/80 #376/80 #474/80 #575/80 #679/80								
			CHANGED OIL & FILTER - CHECKED OLD FILTER - NO CONTAMINATION								
			SERVICED W/ 109ts AEROSHELL 15-50, CLEANED, CAPPED &								
			ROTATED SPARK PLUGS CLEANED FUEL INLET SCREEN.								
NOV 26, 1997			CHANGED OIL & FILTER, SERVICED WITH 129ts AEROSHELL								
TACH 169.1			James M. McKinnon A&P 569948254								
BROUGHT FORWARD											
TOTALS											

ITEMS	SIGNATURE	LICENSE NUMBER
FILTER / NO CONTAMINATION		
DARK PLUGS		
SPACED 3EA IGNITION		
RINGS. CLEANED FUEL		
SCREEN / SUMP		
SERVICE BULLETIN		
NEW INDUCTION		
WIFOLD PRESSURE		
INGS SUPPLIED BY		
E WITH ROCKET		
D. INSTALLATION OF		
URAO MOUNT LEGS		
Kumar		
88542A		

ENGINE LOG

[illegible]

DATE	R.P.N.
	Ground
MAY 13, 1998	
JUNE 19, 2000	
TACH 247.	
TOTAL SAME	
BROUGHT FORWARD	
TOTALS	

ENGINE LOG

[illegible]

BROUGHT FORWARD	TOTAL
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ENGINE LOG

DATE	SIGNATURE	LICENSE NUMBER
August 13, 2002		
Tach Time 328.1		
Total Time 328.1		
I certify that this Engine has been inspected in accordance with an Annual inspection and has been determined to be in airworthy condition. Compression: #1 71/80 #2 #3 75/80 #4 70/80 #5 75/80 #6 71/80 * #2 cylinder removed for repair: Replaced Exhaust valve and guide, honed cylinder and installed new piston rings. Reinstalled #2 cylinder with new seals and gaskets. Changed oil and filter. Checked old filter for contamination, none found. Serviced engine with 12 qts. Aero-shell 15W50. Cleaned, gapped and rotated spark plugs. Cleaned injector screen. Complied with AD95-17-06 by inspecting transition duct and turbo mount legs for cracks. Next inspection due 378.1 Tach.		
Terence M. McKenna <i>Terence M. McKenna</i> A&P569948254IA		
N5289D		
BROUGHT FORWARD		
TOTALS		

SIGNATURE	LICENSE NUMBER
CYLINDERS	
VALVE INSTRUCTIONS	
FOR STC SE09289SC	
12 QTS. AEROSHELL	
VALVE LEAK	
569948254	
DANCE WITH AN ANNUAL	
CONTAMINATION	
MINUTES - NONE FOUND	
AND ROTATED SPARK	
PLUGS CHECKED TIMING	
WIND PROP	
TA	

DATE	SIGNATURE	LICENSE NUMBER
Sept. 6, 2003 Tach Time: 350.4 Total Time: 350.4 N5289D		
I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in air-worthy condition. Compression: #167/80 #2 62/80 #3 70/80 #4 64/80 #5 74/80 #6 71/80 Changed oil and serviced with 12 qts Aeroshell 15W50. Changed oil filter and checked old filter for contamination. Cleaned, gapped and rotated spark plugs. Checked fuel injector screen. Checked and cleaned fuel strainer. C/W AD 95-17-06 by inspecting transition duct and turbo mount legs for cracks. None found. Next inspection due 400.4 TT.		
<i>Terence M. McKenna</i>		
Terence M. McKenna A&P 569948254 IA		
BROUGHT FORWARD		
TOTALS		

N5289D
Sept. 6, 2003 Tach Time: 350.4 Total Time: 350.4
I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in air-worthy condition. Compression: #167/80 #2 62/80 #3 70/80 #4 64/80 #5 74/80 #6 71/80 Changed oil and serviced with 12 qts Aeroshell 15W50. Changed oil filter and checked old filter for contamination. Cleaned, gapped and rotated spark plugs. Checked fuel injector screen. Checked and cleaned fuel strainer. C/W AD 95-17-06 by inspecting transition duct and turbo mount legs for cracks. None found. Next inspection due 400.4 TT.

Terence M. McKenna A&P 569948254 IA

BROUGHT FORWARD		TOTALS	
1	100	100	100
2	100	100	100
3	100	100	100
4	100	100	100
5	100	100	100
6	100	100	100
7	100	100	100
8	100	100	100
9	100	100	100
10	100	100	100
11	100	100	100
12	100	100	100
13	100	100	100
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92	100	100	100
93	100	100	100
94	100	100	100
95	100	100	100
96	100	100	100
97	100	100</	

BROUGHT FOR

DATE	R.P.M.	TIME ON GROUND	TIME IN AIR	TOTAL TIME	REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
					N5289D		
					Oct. 10, 2004 Tach Time: 381.5 Total Time: 381.5		
					I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. Compression:		
					#1 66/80 #2 70/80 #3 73/80 #4 68/80 #5 75/80 #6 70/80.		
					Changed oil and filter. Serviced engine with 11 qts. Aeroshell 15W50. Checked old filter for contamination. Cleaned and gapped spark plugs. Checked mag timing. Replaced Brackett air filter element. Cleaned corrosion on engine mount adjacent to tail pipe, painted with hi-temp paint and installed 2 pieces of fire-sleeve over mount tubing. C/W AD 95-17-06 by inspecting transition duct and turbo mount legs. No cracks found. Next inspection due: 431.5 Tach.		
					Terence M. McKenna		
					<i>Terence M. McKenna</i>		
					A&P 569948254 IA		
BROUGHT FORWARD							
TOTALS							

Groun

Oct. 10, 2004 Tach Time: 381.5 Total Time: 381.5
I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. Compression: #1 66/80 #2 70/80 #3 73/80 #4 68/80 #5 75/80 #6 70/80. Changed oil and filter. Serviced engine with 11 qts. Aeroshell 15W50. Checked old filter for contamination. Cleaned and gapped spark plugs. Checked mag timing. Replaced Brackett air filter element. Cleaned corrosion on engine mount adjacent to tail pipe, painted with hi-temp paint and installed 2 pieces of fire-sleeve over mount tubing. C/W AD 95-17-06 by inspecting transition duct and turbo mount legs. No cracks found. Next inspection due: 431.5 Tach

Terence M. McKenna

A&P 569948254 1A

BROUGHT FORWARD

TOTALS

ENGINE LOG

[illegible]

ENGINE LOG

[illegible]

DATE _____

[illegible]

[illegible]

BROUGHT FORWARD

TOTALS

[illegible]

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Hrs.			
May 1, 2011											
N5289D Tach Time: 510.4 Total Time: 510.4 I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. Compression: #1 70/80 #2 67/80 #3 62/80 #4 63/80 #5 69/80 #6 64/80. Changed oil and serviced engine with Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Cleaned gapped and rotated spark plugs. Removed both magnetos for 500-hour inspections. Replaced contact breaker points. Lubed felts and bearings. Reset internal timing. Reinstalled and timed magnetos. Removed both intercoolers and sent for weld repair of cracks on mounting ears. Pressure tested and inspected exhaust system. Checked fuel injector inlet screen. Replaced air filter element. Run up, ops check and leak check good. No Airworthiness Directives apply at this time.											
Terence M. McKenna <i>Terence M. McKenna</i> A&P 569948254 IA											
BROUGHT FOR TOTALS											

REMARKS	SIGNATURE	LICENSE NUMBER
495.6 pected in been de- ression: #6 62/80. Changed 11 15W50. r contam- ark plugs. or inlet st system. list for		
948254 IA		

LICENSE
NUMBER

July 1, 2012

N5289D

Tach Time: 532.0

Total Time: 532.0

I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. Compression: #1 72/80 #2 72/80 #3 65/80 #4 58/80 #5 74/80 #6 74/80. Borescoped #4 cylinder. No defects noted. Changed oil and serviced engine with 11 qts Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Pressure tested and inspected exhaust system. Cleaned, gapped and rotated spark plugs. Adjusted magneto timing to 20° BTC. Checked fuel injector inlet strainer. Replaced landing light amp connector. Repaired L/H magneto P-lead. Run up, leak check and ops check good. No Airworthiness Directives apply at this time.

Terence M. McKenna

James W. McKim

A&P 569948254 IA

BROUGHT FORWARD

TOTALS

ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Hrs.			
July 13, 2013									Tach Time: 581.6 TSMOH: 581.6 Total Time: 581.6		
									N5289D		
									I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. Compression:		
									#1 76/80 #2 74/80 #3 74/80 #4 72/80 #5 77/80 #6 75/80. Changed oil and		
									served engine with 11 qts Aeroshell 15W50. Changed oil filter and checked old filter		
									for contamination. None found. Cleaned, gapped and rotated spark plugs. Checked and		
									adjusted both magnetos' timing to engine. Pressure tested and inspected exhaust system.		
									Inspected transition duct and turbo mount legs for cracks to comply with AD 95-17-06.		
									Next due 681.6 Tach. Replaced air filter element. Checked fuel injector inlet screen.		
									Found clean. Run up, leak check and ops check good. No Airworthiness Directives		
									apply at this time.		
									Terence M. McKenna <i>Terence M. McKenna</i> A&P 569948254 IA		
BROUGH...											
TOTALS											

RE	LICENSE NUMBER
Annual	
ision:	
ed #4 cylinder.	
5W50.	
ressure tested	
adjusted	
l landing light	
s check good.	
569948254 IA	

[illegible]

DATE _____

R. P. M.

TIME ON
GROUNDTIME IN
AIR

TOTAL TIME

REPAIRS - ADJUSTMENTS

SIGNATURE

LICENSE
NUMBER

⑤

November 11, 2013

N5289D

Tach Time: 619.6

Changed oil serviced engine with 11 qts Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Replaced IPI TIT probe.

Terence M. McKenna

Leane McKinnon

A&P 569948254 1A

BROUGHT FORWARD

TOTALS

BROUGHT FOR

TO

ENGINE LOG

DATE	TIME	TACH	TSMOH	TOTAL TIME	LICENSE NUMBER
July 11, 2014	630.9	630.9	630.9	630.9	
I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. Compression: #1 75/80 #2 75/80 #3 75/80 #4 72/80 #5 74/80 #6 76/80. Changed oil and serviced engine with 11 qts Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Cleaned, gapped and rotated spark plugs. Checked magneto timing. Pressure tested and inspected exhaust system. Found L/H exhaust duct cracked at weld line and leaking. Removed L/H exhaust system and sent to Knisley Exhaust systems (Loomis, CA) for repair (See Serviceable Tag). Reinstalled exhaust system on L/H cylinder bank with new gaskets. Replaced induction air filter element. Removed fuel flow transducer and soaked in cleaning solution. Reinstalled transducer. Run up, leak check and ops check good. See Airworthiness Directive Compliance Checklist for compliance and next due dates and times.					
Terence M. McKenna <i>Terence M. McKenna</i> A&P 569948254 IA					

BROUGHT FORWARD

TOTALS

ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
Tach Time: 619.6		
Changed oil filter and		
obs.		
A&P 569948254 IA		

DATE	Grc		LICENSE NUMBER
November 13, 2014		N5289D	Tach Time: 0666.8
Changed oil and serviced engine with 10 qts of Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Run up, ops check and leak check good.			
			A&P 569948254 IA
		Terence M. McKenna	
BROUGHT FORWARD			
TOTALS			

Grc

N5289D

Tach Time: 0666.8

Changed oil and serviced engine with 10 qts of Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Run up, ops check and leak check good.

Terence M. McKenna

James M. McKim

A&P 569948254 IA

BROUGHT FORWARD

TOTALS

ENGINE LOG

DATE	TIME	TACH	TSMOH	TOTAL TIME	LICENSE NUMBER
July 5, 2015		689.5	689.5	689.5	
I certify that this engine has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Compression: #1 76/80 #2 73/80 #3 76/80 #4 66/80 #5 74/80 #6 74/80. Changed oil and serviced engine with 11 qts Aeroshell 15W/50. Changed oil filter and checked old filter for contamination. None found. Cleaned, gapped and rotated spark plugs. Checked magneto timing. Pressure tested and inspected exhaust system. Run up, leak check and ops check good. See Airworthiness Directive Compliance Checklist for compliance and next due dates and times.					
Terence M. McKenna <i>Terence M. McKenna</i> A&P 569948254 IA					
BROUGHT FORWARD					
TOTALS					

DATE	TIME	TACH	TSMOH	TOTAL TIME	LICENSE NUMBER
Time: 0666.8					
Changed oil					
Check and leak					
948254 IA					

[illegible]

N5289D

Tach Time: 732.6

October 19, 2015

Change oil and serviced engine with 11 quarts Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Run up, leak check good.

Terence M. McKenna

James M. McKim

A&P 569948254 IA

BROUGHT FORWARD

TOTALS

DATE _____

URE

LICENSE
NUMBER

BROUGHT

h Time: 732.6

Changed oil
check good.

69948254 IA

JRE

LICENSE
NUMBER

ENGINE LOG

DATE

GROU

TIME IN

TIME IN

N5289D

July 1, 2016

Tach Time: 739.5

TSMOH: 739.5

Total Time: 739.5

E

LICENSE
NUMBER

I certify that this engine has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Compression: #1 75/80 #2 74/80 #3 74/80 #4 25/80** #5 75/80 #6 74/80. Borescoped #4 cylinder and found exhaust valve burned. Removed cylinder and installed new TCM replacement. Changed oil and serviced engine with Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Cleaned, gapped and rotated spark plugs. Checked magneto timing. Checked fuel injector inlet strainer screen. Pressure tested and inspected exhaust system. Replaced wastegate actuator drain hose with new Aeroquip 303-4 hose. Removed fuel pressure regulator due to cracked upper housing. Replaced regulator housing chamber with new P/N 640305. Reinstalled and safetied. Adjusted regulator. Run up, leak check and ops check good. Accomplished break in flight for #4 cylinder. See Airworthiness Directive Compliance Checklist for compliance and next due dates and times.

BROUGHT F

Terence M. McKenna



A&P 569948254 IA

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
 UNITED FLIGHT SERVICES 120 Aviation Way. Watsonville, CA 95076 N5289D											
October 23, 2016 Changed oil and serviced engine with 11 quarts of Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Run up and leak check good. Tach Time: 779.6											
Terence M. McKenna <i>Terence M. McKenna</i> A&P 569948254 IA											
BROUGHT FORWARD											
TOTALS											

DATE

BROUGHT FORWARD

AUTV

[illegible][illegible]

UNITED FLIGHT SERVICES
120 Aviation Way. Watsonville, CA 95076

N5289D

March 5, 2017

Tach Time: 787.0

Removed turbocharger assembly due to loose/worn housings. Sent to Main Turbo, Visalia, California, for repair/overhaul. See Form 8130-3. Reinstalled turbocharger assembly with all new gaskets. Pre-oiled turbocharger oil lines and bearings by motoring engine with spark plugs removed. Reinstalled spark plugs and ran engine to ops check turbo system and check for leaks. Ops check and leak check good.

Terence M. McKenna

A&P 569948254 1A

BROUGHT FORWARD

TOTALS

1. Approving Civil Aviation
Authority/Country

FAA/United States

AUTHORIZED RELEASE CERTIFICATE

INVOICE#41642

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

4. Organization Name and Address:

Main Turbo Systems, Inc.
234 South Cotta Court
Visalia, Ca. 93292 U.S.A.

FAA Approved Repair Station# MAMR190K
Certificate No: EASA.145-6274
(800) 847-8815 or (559) 635-3322

5. Work Order/Contract/Invoice
Number:

W/O#52424

6. Item: 7. Description:

1 HARTZELL
TURBOCHARGER

8. Part Number:

407810-9001

9. Quantity:

1

10. Serial Number:

XFO25031

11. Status/Work:

Overhauled

12. Remarks:

1. Turbocharger overhauled per Hartzell overhaul manual P/N 400600-0000 Revision B, and EA 09-28 & EA15-14.
2. All Hartzell service letters, bulletins and AD notes complied with.
3. Parts installed per overhaul manual.

13a. Certifies the items identified above were manufactured in conformity to:

- ☐ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 12.

14a.

☒ 14 CFR 43.9 Return to Service

☐ Other regulation specified in Block 12

Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature:

13c. Approval/Authorization No.:

13d. Name (typed or Printed):

13e. Date (dd/mm/yyyy):

14b. Authorized Signature:

14d. Name (Typed or Printed):

Gary Main

14c. Approval/Certificate No.:

MAMR190K

14e. Date (dd/mm/yyyy):

10/Jan/2017

User/Installer Responsibilities

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

UNITED FLIGHT SERVICES
120 Aviation Way. Watsonville, CA 95076

[illegible]

June 23, 2017

Tach Time: 793.5

TSMOH: 793.5

Total Time: 793.5

I certify that this engine has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Compression: #1 63/80 #2 47/80 #3 56/80 #4 75/80** #5 67/80 #6 53/80. Master orifice: 43 Borescoped all cylinders. No defects noted. Changed oil and serviced engine with Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Cleaned, gapped and rotated spark plugs. Checked magneto timing. Checked fuel injector inlet strainer screen. Pressure tested and inspected exhaust system. Replaced air filter element. Tightened tachometer drive cable at engine attachment. Run up, leak check and ops check good. See Airworthiness Directive Compliance Checklist for compliance and next due dates and times.

Terence M. McKenna

A&P 569948254 IA

BROUGHT FORWARD	TOTAL
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[illegible]

in annual
index D and has
#2 47/80
oped all cylinder
V50. Changed c
gapped and rota
inner screen.
ent. Tightened
ps check good.
next due dates

&P 569948254 IA

[illegible]

UNITED FLIGHT SERVICES
120 Aviation Way. Watsonville, CA 95076

N5289D

February 11, 2018

Tach Time: 835.2

Changed oil and serviced engine with Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Removed tailpipe and induction air filter assembly for access to cowl flap motor and switches. Reinstalled both after replacing cowl flap motor shaft pins. Run up, leak check and ops check good.

Terence M. McKenna

A&P 569948254 IA

DATE	UNITED FLIGHT SERVICES 120 Aviation Way, Watsonville, CA 95076	SIGNATURE	LICENSE NUMBER
February 11, 2018	<u>N5289D</u> Tach Time: 835.2 Changed oil and serviced engine with Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Removed tailpipe and induction air filter assembly for access to cowl flap motor and switches. Reinstalled both after replacing cowl flap motor shaft pins. Run up, leak check and ops check good. Terence M. McKenna <i>Terence M. McKenna</i> A&P 569948254 IA		
BROUGHT FORWARD			
TOTALS			

	2017	2016
Brought forward	89,000	100,000
Totals	1,000,000	1,000,000



ENGINE LOG

N5289D

June 18, 2018

Tach Time: 847.0

TSMOH: 847.0

Total Time: 847.0

I certify that this engine has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Compression: #1 69/80 #2 72/80 #3 69/80 #4 73/80 #5 73/80 #6 69/80. Changed oil and serviced engine with Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Cleaned, gapped and rotated spark plugs. Checked magneto timing. Checked fuel injector inlet strainer screen. Pressure tested and inspected exhaust system. Replaced air filter element. Removed fuel flow transducer and soaked in cleaner. Reinstalled. Run up, leak check and ops check good. See Airworthiness Directive Compliance Checklist for compliance and next due dates and times.

Terence M. McKenna

A&P 569948254 IA

[illegible][illegible][illegible]

JRE	LICENSE NUMBER

Total Time: 847.0

h an annual
 pendix D and has
 80 #2 72/80
 engine with
 mination. None
 liming. Checked
 ust system.
 d in cleaner.
 ness Directive

A&P 569948254 IA

ENGINE LOG

DATE	R. P. M.	TIME ON GROUND	TIME IN AIR	TOTAL TIME	REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
June 1, 2019		Tach Time: 890.4		TSMOH: 890.4	Total Time: 890.4		
 UNITED FLIGHT SERVICES 120 Aviation Way, Watsonville, CA 95076 N5289D I certify that this engine has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Compression: #1 64/80 #2 64/80 #3 59/80 #4 74/80 #5 60/80 #6 63/80. Changed oil and serviced engine with Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Replaced all sparkplugs with new Tempest URHB32E's. Checked magneto timing. Checked fuel injector inlet strainer screen. Pressure tested and inspected exhaust system. Replaced air filter element. Run up, leak check and ops check good. See Airworthiness Directive Compliance Checklist for compliance and next due dates and times.							
Charles J Howard  A&P 3278541 IA							
BROUGHT							



ENGINE LOG

UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

DATE
R.
Ground

NATURE
LICENSE
NUMBER

DATE

BROUC

N5289D

Tach Time: 937.9

November 22, 2019

Changed oil and serviced engine with Aeroshell 15W50. Replaced oil quick drain valve with new Aeroquip valve. Changed oil filter and checked old filter for contamination. None found. Replaced fuel flow transducer with new flo-scan, JPI replacement. Run up and leak check found good.

Terence M. McKenna

A&P 569948254 IA

BROUGHT FORWARD

TOTALS

DATE	Gr	UNITED FLIGHT SERVICES 120 Aviation Way, Watsonville, CA 95076	LICENSE NUMBER
June 1, 2020		Tach Time: 943.5 TSMOH: 943.5 Total Time: 943.5 <u>N5289D</u> I certify that this engine has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Compression: #1 65/80 #2 61/80 #3 63/80 #4 70/80 #5 56/80 #6 60/80. Replaced gasket and seal on oil dipstick tube. Checked magneto timing. Checked fuel injector inlet strainer screen. Pressure tested and inspected exhaust system. Replaced air filter element. Run up, leak check and ops check good. See Airworthiness Directive Compliance Checklist for compliance and next due dates and times. Terence M. McKenna A&P 569948254 IA	ATURE
		BROUGHT FORWARD	
		TOTALS	



UNITED FLIGHT SERVICES
120 Aviation Way. Watsonville, CA 95076

N5289D

June 1, 2020	Tach Time: 943.5	TSMOH: 943.5	Total Time: 943.5
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I certify that this engine has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Compression: #1 65/80 #2 61/80 #3 63/80 #4 70/80 #5 56/80 #6 60/80. Replaced gasket and seal on oil dipstick tube. Checked magneto timing. Checked fuel injector inlet strainer screen. Pressure tested and inspected exhaust system. Replaced air filter element. Run up, leak check and ops check good. See Airworthiness Directive Compliance Checklist for compliance and next due dates and times.

Terence M. McKenna

 A&P 569948254 IA

A&P 569948254 IA

BROUGHT FORWARD

TOTALS

Time: 937.9

ed oil quick drain
er for
o-scan, JPI

&P 569948254 IA



December 17, 2020

Tach Time: 947.9

Removed starter and installed missing o-ring seal. Removed oil dipstick housing and replaced both o-ring seals on crankcase adapter. Run up and leak check good.

Terence M. McKenna

A&P 569948254 IA



January 15, 2021

Tach Time: 948.9

Troubleshot excessive oil leakage on belly of fuselage. Found source to be crankcase breather. Performed compression test and found #6 cylinder to be 30/80 and leaking by piston rings. Removed #6 cylinder and repaired. Replaced piston and piston rings. Honed cylinder barrel. Reinstalled cylinder with all new gaskets and seals. Added 3 quarts of oil and ran engine. Leak check and ops check good.

Terence M. McKenna

A&P 569948254 1A

[illegible][illegible]



UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

ENGINE LOG

LICENSE
NUMBER

DATE

Time: 947.9

g and

948254 IA

Time: 948.9

leather.
removed #6
cylinder with
good.

SS9948254 IA

June 7, 2021

Tach Time: 956.4

N5289D

TSMOH: 956.4

Total Time: 956.4

I certify that this engine has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Compression: #1 61/80 #2 51/80 #3 **/80 #4 61/80 #5 **/80 #6 63/80. Checked magneto timing. Checked fuel injector inlet strainer screen. Pressure tested and inspected exhaust system. Removed exhaust system and weld repaired #5 riser. Removed #3 and #5 cylinders for burned exhaust valves. Replaced both exhaust valves and valve guides. Replaced piston ring sets. Reinstalled cylinders with new gaskets and seals. Reinstalled exhaust system. Run up, leak check and ops check good. See Airworthiness Directive Compliance Checklist for compliance and next due dates and times.

Terence M. McKenna

A&P 569948254 IA

BROUGHT FORWARD

TOTALS



UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

DATE

G

June 1, 2022

N5289D

Tach Time: 968.5

TSMOH: 968.5

Total Time: 968.5

LICENSE
NUMBER

I certify that this engine has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Compression: #1 70/80 #2 70/80 #3 73/80 #4 69/80 #5 77/80 #6 71/80. Changed oil and serviced engine with Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Replaced air filter element. Replaced all screws on air filter box adapter. Cleaned, gapped and rotated spark plugs. Checked magneto timing. Checked fuel injector inlet strainer screen. Pressure tested and inspected exhaust system. Run up, leak check and ops check good. See Airworthiness Directive Compliance Checklist for compliance and next due dates and times.

Terence M. McKenna

A&P 569948254 IA

BROUGHT FORWARD

TOTALS



UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

DATE

June 1, 2023

N5289D

Tach Time: 987.0

TSMOH: 987.0

Total Time: 987.0

I certify that this engine has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Compression: #1 63/80 #2 49/80 #3 62/30 #4 68/80 #5 77/80 #6 71/80. Borescoped all cylinders. No defects noted. Meter orifice reading = 43. Replaced #6 cylinder exhaust valve roto coil and keys. Replaced #4 and #6 valve cover gaskets. Changed oil and serviced engine with Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Replaced air filter element. Cleaned, gapped and rotated spark plugs. Removed both magneto for 500 hour inspections. Replaced all contact breaker points. Reset internal timing and lubed. Reinstalled and timed to engine. Checked fuel injector inlet strainer screen. Soaked fuel flow transducer in cleaning solution. Pressure tested and inspected exhaust system. Run up, leak check and ops check good. See Airworthiness Directive Compliance Checklist for compliance and next due dates and times.

Terence M. McKenna

A&P 569948254 IA

LICENSE
NUMBER

Total Time: 968.5

Inspection consistent
to be in airworthy
71/80. Changed oil
for contamination.
er. Cleaned, gapped
iner screen. Pressure
se Airworthiness

A&P 569948254 IA

MAC Aircraft

DATE

M A I N T E N A N C E

406 Yellowbird Road • Portland International Airport • Portland, ME 04102
(207) 780-1811 • Fax (207) 772-6900

CRS FSR011E

Date	WO#	Registration	Type/Model	SN	TSMOH	Tach
10/02/23	50064	N5289D	TSIO-520-NB	290697-R	1004.3	1004.3

- Drained oil. Removed filter, cut open and inspected with no abnormalities noted. Installed new filter, part number: CH48109-1 and serviced with 12 quarts of Aeroshell 15W-50 oil.
- Run up and leak check good.

I certify that this engine was repaired and inspected in accordance with current Regulations of the FAA and is approved for return to service with respect to the work performed.


Signature

CRS FSR011E

Type and Certificate Number

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.)

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S 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.)
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UNITED FLIGHT SERVICES
120 Aviation Way. Watsonville, CA 95076

N5289D

May 17, 2024

Tach Time: 1034.7 TSMOH: 1034.7

Total Time: 1034.7

I certify that this engine has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Compression: #1 63/80 #2 65/80 #3 66/80 #4 68/80 #5 64/80 #6 60/80. Changed oil and serviced engine with Aeroshell 15W50. Changed oil filter and checked old filter for contamination. None found. Replaced air filter element. Cleaned, gapped and rotated spark plugs. Checked magneto timing. Checked fuel injector inlet strainer screen. Pressure tested and inspected exhaust system. Replaced seals on #5 cylinder fuel injection nozzle. Run up, leak check and ops check good. See Airworthiness Directive Compliance Checklist for compliance and next due dates and times.

Terence M. McKenna

A&P 569948254 IA

YEAR
20
DATE

RECORDING
TACH
TIME

TODAY'S
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.)

YEAR
20
DATE

ENGINE LOG BOOK ENTRY

Reg: N5289D SN: 290697-R 23-November-2024

Mfr & Model: Continental TS10-520-NB

ENG TSN: ACFT HOBBS: ACFT Tach:

INSTALLED GAMI G100UL® UNLEADED AVGAS PLACARD IN A CONSPICUOUS LOCATION OF
THE ENGINE IAW INSTALLATION INSTRUCTIONS 06-6560003, PMA PQ821SW, AND
STC SE01966WI. NO CHANGE IN WEIGHT/BALANCE. APPROVED FOR RETURN TO SERVICE.


Travis Nansel A&P 26360161A

2549.78

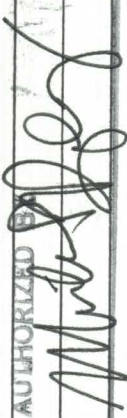
Owner Name _____
Address _____

Propeller Model 3AF32C505-C
Blade Model G-82NEA-5.5
Hub Serial No. 941641
Blade Serial No. 1 NL083
2 NL201
3 NL231
4 _____

INSTALLATION HISTORY

Date	Aircraft Model & Registration No.	Engine Serial Number & Position
(116)	THIS PROPELLER MANUFACTURED NEW AT	
08/24/94	MCCAULEY ACCESSORY DIVISION AND	
	INSPECTED FOR AIRWORTHINESS.	

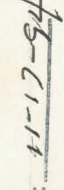
MAINTENANCE & SERVICE HISTORY

Date	Total Propeller Time	Time Since Overhaul	Description Of Work	Authorized Signatures Repairman and Station Certificate Numbers
9-23-94	-0-	-0-	3AF320505-C/G82NEA-5.5 Installed New Electric Boots and Checked Balance.	SN 941641 De-icer Balance.
			AUTHORIZED BY 	
			NEW ENGLAND PROPELLER SERVICE, INC. EAST HADDAM, CT	
			FAA REPAIR STATION # RC2R1300	
			Work order # CR-1834	

NOTE: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12

MAINTENANCE & SERVICE HISTORY

Date	Total Propeller Time	Time Since Overhaul	Description Of Work	Authorized Signatures Repairman and Station Certificate Numbers
			Tach time 00.00. Total time 00.00. This prop was installed as a part of STC SA5691NM. See 337 for detail. Ground run up was satisfactory prop is airworthy and is placed into service.	
SCOTT S. MANINA, AF 572413560 NOV. 10 1994				

VIBRATION ANALYSIS AND DYNAMIC BALANCE OF
 PROP AND ENGINE COILBINATION
 ENGINE S/N 290697-R PROP S/N 74164H
 ORIGINAL 2.5 IPS
 FINAL .01 IPS
 N52890
 SIGNER:  DATE: 11-17-94
 FELTS FIELD AVIATION
 P.O. BOX 11687
 SPOKANE WA 99211

NOTE: Enter Compliance With All Applicable FAA

Service Bulletins On Pages 11 & 12

MAINTENANCE & SERVICE HISTORY

Date	Total Propeller Time	Time Since Overhaul	Description Of Work	Authorized Signatures Repairman and Station Certificate Numbers
TOP GUN AVIATION I CERTIFY THAT THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH A QUALITY INSPECTION AND IS AIRWORTHY WITH RESPECT TO THE WORK PERFORMED. DATE <u>2-7-95</u> TOTAL TIME <u>00.0</u>				
TACH TIME	Q.O. R.O.	3732		
<i>Thomas A. Rouch</i> THOMAS A. ROUCH P. 549447166				
MARCH 3, 1996		TACH TIME	67.5 DRESSED & PAINTED PROP.	
			I CERTIFY THAT THIS PROPELLER HAS BEEN	
			INSPECTED IN ACCORDANCE WITH AN ANNUAL	
			INSPECTION AND HAS BEEN DETERMINED TO BE IN	
NOTE: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12				

MAINTENANCE & SERVICE HISTORY

Date	Total Propeller Time	Time Since Overhaul	Description Of Work	Authorized Signatures Repairman and Station Certificate Numbers
			AIRWORTHY CONDITION. <i>James McKeown</i>	569948254 IA
APRIL 6, 1997			I CERTIFY THAT THIS PROPELLER	
TACH 120.3			HAS BEEN INSPECTED IN ACCORDANCE	
Total Time Same			WITH AN ANNUAL INSPECTION AND	<i>James McKeown</i>
			DETERMINED TO BE IN AIRWORTHY CONDITION	569948254 IA
APRIL 12, 1998			I CERTIFY THAT THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE	
TACH 188.4			WITH AN ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN	
Total Time 188.4			AIRWORTHY CONDITION. <i>James McKeown</i>	569948254 IA

NOTE: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12

Service Bulletins On Pages 11 & 12

NOTE: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12

MAINTENANCE & SERVICE HISTORY

Date	Total Propeller Time	Time Since Overhaul	Description Of Work	Authorized Signatures Repairman and Station Certificate Numbers
5-13-99	TACH TIME 221.8	TOTAL TIME SAME		
	I CERTIFY THAT THIS PROPELLER HAS BEEN INSPECTED			
	WITH AN			
	AIRWORTHY CONDITION.			
6-19-2000	TACH 247.1	TOTAL SAME	I CERTIFY THAT THIS PROPELLER HAS BEEN INSPECTED	
	IN ACCORDANCE WITH AN ANNUAL INSPECTION AND HAS BEEN			
	BE IN AIRWORTHY CONDITION.			
7-7-01	TACH 297.4	TOTAL SAME	I CERTIFY THAT THIS PROPELLER HAS BEEN INSPECTED	
NOTE: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12				

Work	Authorized Signatures Repairman and Station Certificate Numbers
INSPECTED IN ACCORDANCE WITH ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION. DRESSED OUT NICKS AND PAINTED BLADE FACES WITH FLAT BLACK PAINT.	TERENCE M. MCKENNA A&P 569948254IA
INSPECTED IN ACCORDANCE WITH ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION. DRESSED OUT NICKS AND PAINTED BLADE FACES WITH FLAT BLACK PAINT.	TERENCE M. MCKENNA A&P 569948254IA

Work	Authorized Signatures Repairman and Station Certificate Numbers
INSPECTED IN ACCORDANCE WITH ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION. DRESSED OUT NICKS AND PAINTED BLADE FACES WITH FLAT BLACK PAINT.	TERENCE M. MCKENNA A&P 569948254IA
INSPECTED IN ACCORDANCE WITH ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION. DRESSED OUT NICKS AND PAINTED BLADE FACES WITH FLAT BLACK PAINT.	TERENCE M. MCKENNA A&P 569948254IA

NOTE: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12

MAINTENANCE & SERVICE HISTORY

Date	Total Propeller Time	Time Since Overhaul	Description Of Work	Authorized Signatures Repairman and Station Certificate Numbers
			N5289D	
			Oct. 10, 2004 Tach Time: 381.5 Total Time: 381.5	
			I certify that this propeller has been inspected	
			in accordance with an annual inspection and has been	
			determined to be in airworthy condition. Dressed out	
			nicks and painted blade faces.	
			Terence M. McKenna	
			<i>Terence M. McKenna</i>	
			A&P 569948254 IA	
			N5289D	
			Nov. 13, 2005 Tach Time: 413.7 Total Time: 413.7	
			I certify that this propeller has been inspected	
			in accordance with an annual inspection and has been	
			determined to be in airworthy condition. Dressed &	
			painted blade faces.	
			Terence M. McKenna	
			<i>Terence M. McKenna</i>	
			A&P 569948254IA	
NOTE:				12

REPAIR HISTORY

Work	Authorized Signatures Repairman and Station Certificate Numbers
Total Time: 381.5 I certify that this propeller has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. Dressed out blade nicks and painted blade faces flat black.	Terence M. McKenna <i>Terence M. McKenna</i> A&P 569948254 IA
Total Time: 413.7 I certify that this propeller has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. Dressed out blade nicks and repainted blade faces flat black.	Terence M. McKenna <i>Terence M. McKenna</i> A&P 569948254 IA

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F.A.A. AIRWORTHINESS DIRECTIVE AND SERVICE BULLETIN/ LETTER COMPLIANCE RECORD

Date	N5289D	Signatures and Station Numbers
Dec. 12, 2006	Tach Time: 432.0 Total Time: 432.0 I certify that this propeller has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. Dressed out blade nicks and painted blade faces flat black.	Terence M. McKenna <i>Terence M. McKenna</i> A&P 569948254 IA
Feb. 7, 2008	Tach Time: 458.4 Total Time: 458.4 I certify that this propeller has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. Dressed out blade nicks and repainted blade faces flat black.	Terence M. McKenna <i>Terence M. McKenna</i> A&P 569948254 IA
March 7, 2009	Tach Time: 483.0 Total Time: 483.9 I certify that this propeller has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. Dressed out blade nicks and repainted blade faces flat black.	Terence M. McKenna <i>Terence M. McKenna</i> A&P 569948254 IA

11

F.A.A. AIRWORTHINESS DIRECTIVE AND SERVICE BULLETIN/ LETTER COMPLIANCE RECORD

Date	Total Propeller Time	Time Since Overhaul	A.D./Bulletin/Letter Number	Authorized Signatures Repairman and Station Certificate Numbers
	March 21, 2010	Tach Time: 495.6	Total Time: 495.6	
	I certify that this propeller has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. Dressed out blade nicks and repainted blades. See Airworthiness Directive Compliance Checklist for compliance.			
	Terence M. McKenna <i>Terence M. McKenna</i> A&P 569948254 IA			
	May 1, 2011		Tach Time: 510.4	Total Time: 510.4
	I certify that this propeller has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. Dressed out blade nicks and corrosion. Alodined, primed and repainted blades. No Airworthiness Directives apply at this time.			

12 Terence M. McKenna *Terence M. McKenna* A&P 569948254 IA

D SERVICE BULLETIN/ RECORD

Number	Authorized Signatures Repairman and Station Certificate Numbers
1	Time: 495.6
2	as been inspected
3	ion and has been
4	ion. Dressed out
5	ee Airworthiness
6	ompliance.
7	A&P 569948254 IA

Total Time: 510.4

accordance with an annual
dition. Dressed out blade nicks
o Airworthiness Directives

A&P 569948254 IA

July 1, 2012

N5289D

Tach Time: 532.0

Total Time: 532.0

I certify that this propeller has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. Dressed out propeller blade nicks and repainted blade faces flat black. No Airworthiness Directives apply at this time.

Terence M. McKenna



A&P 569948254 IA

July 13, 2013

N5289D

Tach Time: 581.6 TSPOH: 581.6

Total Time: 582.6

I certify that this propeller has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. Inspected de-ice brush lock for wear. Found brushes to be serviceable (+.375"). Dressed out propeller blade nicks and repainted blade faces flat black. No Airworthiness Directives apply at this time.

Terence M. McKenna



A&P 569948254 IA

N5289D

July 11, 2014 Tach Time: 630.9 TSPOH: 630.9 Total Time: 630.9

I certify that this propeller has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. Dressed out propeller blade nicks and repainted blade faces flat black. No Airworthiness Directives apply at this time.

Terence M. McKenna



A&P 569948254 IA

N5289D

April 19, 2015 Tach Time: 680.9 TSPOH: 680.9 Total Time: 680.9

Removed propeller due to oil leakage past blade seals. Sent to Golden State Propeller for repair. See Form 8130-3 and work order 21421 for details. Reinstalled propeller in accordance with McCauley instructions. Run up, leak check and ops check good.

Terence M. McKenna



A&P 569948254 IA

MA Form 8130-3 (02-14)

It is important to understand that the existence of this document alone does not constitute an authorization for the user/installer to perform work in accordance with the national regulations of an aircraft may be flown.

Where the user/installer performs work in accordance with the national regulations of an aircraft may be flown.

Write up as per manufacturer's instructions and ensure that the aircraft is in a condition for flight.

13a. Name (Typed/Printed):

13b. Authorized Signature:

13c. Date (dd/mm/yyyy):

13d. Approved/Authorized Signature:

13e. Date (dd/mm/yyyy):

13f. Approved/Authorized Signature:

13g. Date (dd/mm/yyyy):

13h. Approved/Authorized Signature:

13i. Date (dd/mm/yyyy):

13j. Approved/Authorized Signature:

13k. Date (dd/mm/yyyy):

13l. Approved/Authorized Signature:

13m. Date (dd/mm/yyyy):

13n. Approved/Authorized Signature:

13o. Date (dd/mm/yyyy):

13p. Approved/Authorized Signature:

13q. Date (dd/mm/yyyy):

13r. Approved/Authorized Signature:

13s. Date (dd/mm/yyyy):

13t. Approved/Authorized Signature:

13u. Date (dd/mm/yyyy):

N5289D

July 11, 2014

Tach Time: 630.9

TSPOH: 630.9

Total Time: 630.9

I certify that this propeller has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. Dressed out propeller blade nicks and repainted blade faces flat black. No Airworthiness Directives apply at this time.

18254 IA

1. Approving Civil Aviation Authority/Country: FAA/United States FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 21421	
4. Organization Name and Address: Golden State Propeller Inc. 981 Airport Drive, San Luis Obispo, CA 93401		5. Work Order/Contract/Invoice Number: 21421		6. Status/Work: Repair	
6. Item: 1	7. Description: McCauley Propeller	8. Part Number: 3AF32C050C/82NEA-5.5	9. Quantity: 1	10. Serial Number: 941641	
12. Remarks: Disassembled, cleaned, visual inspected. Repaired rear bore, reassembled with new seals, cylinder, static balanced, bench tested IAW McCauley Manuals MPC500, SPM100. Blade S/N's 1) NL083 2) NL201 3) NL231 Time continued propeller. A complete description of work performed is on file at the above referenced organization under the work order indicated in block 5. Notice: An Airworthiness Directive may apply to the article described herein. The installer is responsible for ensuring complete compliance with any applicable Airworthiness Directive.					

680.9

ed check

54 IA

9 Total Time: 630.9

I certify that this propeller has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Dressed out propeller blade nicks and repainted blade faces flat black. No Airworthiness Directives apply at this time.

48254 IA

Form Tracking Number:	21421
Work Order/Contract/Invoice Number:	21421
Status/Work:	Repair
Inspected/checked	checked
Inspected in block 5.	54 IA
Complete compliance with	

N5289D

July 5, 2015 Tach Time: 689.5 TSPOH: 689.5 Total Time: 689.5

I certify that this propeller has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Dressed out propeller blade nicks and repainted blade faces flat black. No Airworthiness Directives apply at this time.

Terence M. McKenna



A&P 569948254 IA

N5289D

July 1, 2016 Tach Time: 739.5 TSPOH: 739.5 Total Time: 739.5

I certify that this propeller has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Dressed out propeller blade nicks and repainted blade faces flat black. Inspected de-ice boots and brush blocks. No Airworthiness Directives apply at this time.

Terence M. McKenna



A&P 569948254 IA

☐ HUB



UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

Year: _____

Date: _____

Next Insp
Due: _____

June 23, 2017

Tach Time: 793.5

N5289D

TSPOH: 793.5

Total Time: 793.5

I certify that this propeller has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Dressed out propeller blade nicks and repainted blade faces flat black. Inspected de-ice boots and brush blocks. No Airworthiness Directives apply at this time.

Terence M. McKenna

A&P 569948254 IA

Year: _____

Date: _____

Next Inspection
Due: _____

Time Since
Overhaul

Mech. Cert. # or Repair Station # _____



UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

A 95076

D

TSPOH: 793.5

Total Time: 793.5

I certify that this propeller has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Dressed out propeller blade nicks and repainted blade faces flat black. Inspected de-ice boots and brush blocks. No Airworthiness Directives apply at this time.

A&P 569948254 IA

Terence M. McKenna

Year: -

Date:

Next In Due:

N5289D

June 18, 2018

Tach Time: 847.0

TSPOH: 847.0

Total Time: 847.0

Year: -

Date:

Next In Due:

I certify that this propeller has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Dressed out propeller blade nicks and repainted blade faces flat black. Inspected de-ice boots and brush blocks. No Airworthiness Directives apply at this time.

Terence M. McKenna

Terence M. McKenna

A&P 569948254 IA

Year: -

Date:

Next Inspection Due:

Time Since Overhaul

Mech. Cert. # or Repair Station #

INS ☐

☐ **HUB & BLADE INSPECTIONS, REPAIRS AND ALTERATIONS**



UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

Year: —

Date: —

Next Insp
Due: —

June 1, 2019

Tach Time: 890.4

TSPOH: 890.4

Total Time: 890.4

N5289D

Year: —

Date: —

Next Insp
Due: —

I certify that this propeller has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Dressed out propeller blade nicks and repainted blade faces flat black. Inspected de-ice boots and brush blocks. No Airworthiness Directives apply at this time.

Year: —

Charles J Howard

A&P 3278541 IA

Date: —

Next Inspection
Due: —

Time Since
Overhaul

Mech. Cert. # or Repair Station #

HUB & BLADE INSPECTIONS, REPAIRS AND ALTERATIONS ☐

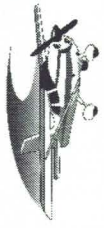
95076

TSPOH: 890.4

Total Time: 890.4

ected in accordance with an annual
f CFR 14 Part 43 Appendix D and has
ressed out propeller blade nicks and
e boots and brush blocks. No

A&P 3278541 IA



UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

N5289D

June 1, 2020

Tach Time: 943.5

TSPOH: 943.5

Total Time: 943.5

I certify that this propeller has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Dressed out propeller blade nicks and repainted blade faces flat black. Inspected de-ice boots and brush blocks. No Airworthiness Directives apply at this time.

Terence M. McKenna

A&P 569948254 IA

Year: _____

Date: _____

Next Inspe-
Due: _____

Year: _____

Date: _____

Next Inspe-
Due: _____

Year: _____

Date: _____

Next Inspection
Due: _____

Time Since
Overhaul

Mech. Cert. # or Repair Station # _____



UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

N5289D

June 7, 2021

Tach Time: 956.4

TSPOH: 956.4

Total Time: 956.4

I certify that this propeller has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Dressed out propeller blade nicks and repainted blade faces flat black. Inspected de-ice boots and brush blocks. No Airworthiness Directives apply at this time.

Terence M. McKenna

A&P 569948254 IA

Next Inspection Due:	Time Since Overhaul
Year: _____	Total Time in Service
Date: _____	Time Since Overhaul
Next Inspection Due:	

Mech. Cert. # or Repair Station # _____

Description

Mech. Cert. # or Repair Station # _____



UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

S □

June 1, 2022 Tach Time: 968.5 TSPOH: 968.5 Total Time: 968.5

N5289D

I certify that this propeller has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Dressed out propeller blade nicks and repainted blade faces flat black. Inspected de-ice boots and brush blocks. No Airworthiness Directives apply at this time.

Terence M. McKenna

A&P 569948254 IA

Next Inspection Due:

Time Since Overhaul

Mech. Cert. # or Repair Station #

Description

Year:

Total Time in Service

Date:

Time Since Overhaul

Next Inspection Due:

Mech. Cert. # or Repair Station #

TSPOH: 956.4 Total Time: 956.4

I certify that this propeller has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Dressed out propeller blade nicks and repainted blade faces flat black. Inspected de-ice boots and brush blocks. No Airworthiness Directives apply at this time.

Terence M. McKenna

A&P 569948254 IA



UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

June 1, 2023

N5289D

Tach Time: 987.0 TSPOH: 987.0

Total Time: 987.0

I certify that this propeller has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Dressed out propeller blade nicks and repainted blade faces flat black. Inspected de-ice boots and brush blocks. No Airworthiness Directives apply at this time.

Terence M. McKenna

A&P 569948254 IA



UNITED FLIGHT SERVICES
120 Aviation Way, Watsonville, CA 95076

May 17, 2024

N5289D

Tach Time: 1034.7 TSPOH: 1034.7

Total Time: 1034.7

I certify that this propeller has been inspected in accordance with an annual inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Dressed out propeller blade nicks and repainted blade faces flat black. Inspected de-ice boots and brush blocks. No Airworthiness Directives apply at this time.

Terence M. McKenna

A&P 569948254 IA