

# ENGINE LOG BOOK



NOV 2013

Publication ELB-01

## Service Information

Consult the Continental Motors web site at [continentalmotors.aero](http://continentalmotors.aero) for engine related news or announcements. Continental Motors Internet Service contains useful information for Continental Motors engine owners, including electronic versions of the most current engine Instructions for Continued Airworthiness and service documents that may be pertinent to your engine model.

If Internet access is not available, contact our Customer Service Department at:  
1-888-826-5465 Toll free in the United States or  
1-251-436-8299 International

## Engine Returns

Return engines for core credit with this log book to:

**Continental Motors, Inc.**  
2039 Broad Street  
Mobile, AL 36615 USA

Return engines for overhaul with this log book to:

**Continental Motors, Inc.**  
Factory Service Center  
8600 County Road 32  
Fairhope, Alabama 36532 USA

**USE ONLY FUEL SPECIFIED IN OPERATOR'S  
MANUAL OR TYPE CERTIFICATE DATA SHEET  
USE OF AUTOMOTIVE FUEL IS PROHIBITED**



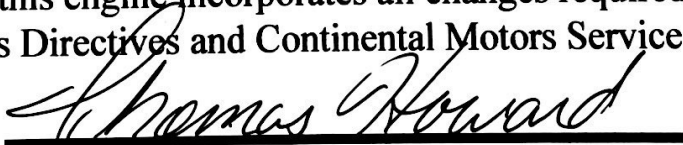
## Continental Motors

FAA PRODUCTION CERTIFICATE NO. 508

Printed: 12/22/2016

Test Date: 12/21/2016

This engine model I0550N68B, serial number 1033489 was manufactured by Continental Motors, Inc. in accordance with approved design data and the applicable requirements of 14 CFR, Part 21. The approved design data for this engine incorporates all changes required by applicable FAA Airworthiness Directives and Continental Motors Service Bulletins.




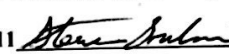
**CONTINENTAL MOTORS, INC.**


Form 6012-03 (Rev Sept 2014)

## Engine Service and Maintenance Record

Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

**NIGT 05-08-17 Tach 27.4 (Flight)**  
 Performed oil change. Drained oil and removed filter. Cut open filter to inspect for contaminants, none noted. Installed, torqued and safetied a new CH48108-1 filter. Serviced engine with 8 qts of Phillips 20W-50 XC oil. Ran engine, leak check satisfactory.  
 Steve Drubin A&P 3386111   
 Executive Flyers Aviation

**NIGT 08-02-17 Tach 77.0 (Flight)**  
 Performed oil change. Drained oil and removed filter. Cut open filter to inspect for contaminants, none noted. Installed, torqued and safetied a new CH48108-1 filter. Serviced engine with 8 qts of Aeroshell W100 Plus oil. Ran engine, leak check satisfactory.  
 Steve Drubin A&P 3386111   
 Executive Flyers Aviation



### LOGBOOK ENTRY

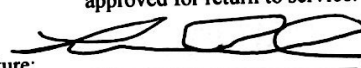
ENGINE

Name: Scott Johnson	A/C: NIGT
W.O.: 9861	Flight: 115.3
	Hobbs: 140.0
	AC S/N: 4450


Date: 11/17/17

Complied with oil and filter change. Took oil sample. Installed new CH48108-1 filter. Cut and inspected old oil filter. Refilled engine with 8 quarts of Phillips 20W50 X/C oil. Remove and replaced air conditioning drive seal and gaskets with new P/N MS9134-01, 534863, and 25102. Re-tensioned belt and leak checked, no leaks noted. Re-timed LH to 22 degrees BTC.

With respect to the work performed and described above, this aircraft is approved for return to service.

Signature:  A&P 38401436

Lance Drew  
 FlightLevel Norwood LLC - Maintenance  
 209 Access Rd., Norwood, MA 02062

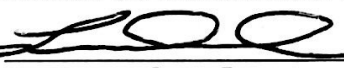


### Engine Logbook Entry

Name: SRJ LLC	Tail # NIGT	Flight Time: 150.7
W.O.: 9946	Serial #: 1033489	Hobbs: 183.6
Date: 3/8/2018	Model # IO550N68B	

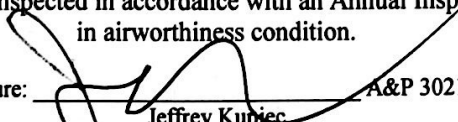
Complied with oil and filter change. Installed new CH48108-1 oil filter. Refilled engine with 8 quarts of Phillips 20W50 X/C oil. Took oil sample. Cut and inspected old oil filter. Cleaned, gapped and tested all spark plugs. Checked magneto timing. Cleaned all fuel nozzles. Installed new gasket (6) P/N X1473, (6) seals P/N 640612 and (6) O-rings P/N 630979-9. Replaced engine air filter P/N BA24. Compression Check: Cylinder #1: 70/80, cyl. #2: 70/80, cyl. #3: 68/80, cyl. #4: 68/80, cyl. #5: 66/80, cyl. #6: 70/80. Checked Bi-weekly ADs through 2018-05.

I certify that this engine has been inspected IAW FAR 43 Appendix D and Cirrus SR22 AMM Checklist for a 100 hour inspection and was determined to be in airworthy condition.

Signature:  A&P 38401436

Lance Drew

I certify that this engine has been inspected in accordance with an Annual Inspection and was determined to be in airworthiness condition.

Signature:  A&P 3021297

Jeffrey Kupiec  
 FlightLevel Norwood LLC - Maintenance  
 209 Access Rd., Norwood, MA 02062

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	
Carried forward	→				
7/19/18	Flight 21218 140655	254.7			Changed oil and filter, cut open filter and inspected no defect noted in filter, serviced with Phillips 20-50XC and CamGuard, Run-up and leak checked. <i>[Signature]</i> Columbia Air Services CRS ZKGR483J 404760

Engine



Columbia Air Services-BHB, LLC  
112 Caruso Drive (Hancock County) Bar Harbor Airport - Trenton, ME 04605  
CRS#ZKGR483J

N1GT Model SR22 Date 9-5-2018 Time F-253.6

Changed oil and filter, cut open filter and inspected no defects noted. Took Blackstone oil sample. Serviced with Phillips x/c 20/50 oil. Run-up, leak and system checks are normal no defects noted.

The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance Identified Above was Repaired and Inspected in Accordance with current Regulations of FAA and is Approved for return to Service. Pertinent details of the repair are on file at This Repair Station under RO4805  
Date: 9-5-2018 Signed: *[Signature]*

Columbia Air Services - BHB, LLC  
112 Caruso Drive Trenton, ME 04605 FAA Certified Repair Station # ZKGR483J

Engine



Columbia Air Services-BHB, LLC  
112 Caruso Drive (Hancock County) Bar Harbor Airport - Trenton, ME 04605  
CRS#ZKGR483J

N1GT Model SR22 Date 11-7-2018 Time F-285.6

Changed oil and filter, cut open filter and inspected no defects noted. Took Blackstone oil sample. Serviced with Phillips x/c 20/50 oil and Camguard oil supplement. Run-up, leak and system checks are normal no defects noted.

The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance Identified Above was Repaired and Inspected in Accordance with current Regulations of FAA and is Approved for return to Service. Pertinent details of the repair are on file at This Repair Station under RO 4852  
Date: 11-7-18 Signed: *[Signature]*

Columbia Air Services - BHB, LLC  
112 Caruso Drive Trenton, ME 04605 FAA Certified Repair Station # ZKGR483J

Hours	Min	Hours	Min	Record maintenance actions including engine installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
Carried forward →				

**Engine**



Columbia Air Services-BHB, LLC  
 112 Caruso Drive (Hancock County) Bar Harbor Airport – Trenton, ME 04605  
 CRS#ZKGR483J

N1GT SR22 S/N 1033489 4/42019 Hobbs 375.7 Flight 320.4

Inspected aircraft using FAR 43 Appx. "D" and Cirrus SR-22 M/M Chap. 5-20 as a guide. Changed oil and filter, cut open filter and inspected, no defects noted. Serviced with Phillips 20/50 XC, took Blackstone oil sample and added Camguard Oil Additive, checked mag timing and compressions 1) 72/80, 2) 74/80, 3) 77/80, 4) 74/80, 5) 76/80, 6) 75/80. Master Orifice reading 72/80. Complied with Cirrus SA18-16 & CMI Cylinder inspection and modification. AD's checked through biweekly 2019-06. See separate log for AD's. Engine run-up for system and leak checks were good. No defects noted.

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

The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance Identified Above was Repaired and Inspected in Accordance with current Regulations of FAA and is Approved for return to Service. Pertinent details of the repair are on file at This Repair Station under RO # 4925  
 Date: 4/4/2019 Signed: *Robert E. Malone*  
**Columbia Air Services – BHB, LLC**  
 112 Caruso Drive Trenton, ME 04605 FAA Certified Repair Station # ZKGR483J

**Engine**



Columbia Air Services-BHB, LLC  
 112 Caruso Drive (Hancock County) Bar Harbor Airport – Trenton, ME 04605  
 CRS#ZKGR483J

N1GT SR22 S/N 1033489 Date 6/10/2019 Hobbs 432. Flight 370.7

Changed oil and filter, cut open filter and inspected no defects noted. Took Blackstone oil sample. Serviced with Phillips x/c 20/50 oil and Camguard oil supplement. Run-up, leak and system checks are normal no defects noted.

The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance Identified Above was Repaired and Inspected in Accordance with current Regulations of FAA and is Approved for return to Service. Pertinent details of the repair are on file at This Repair Station under RO # 4969  
 Date: 6/10/2019 Signed: *[Signature]*  
**Columbia Air Services – BHB, LLC**  
 112 Caruso Drive Trenton, ME 04605 FAA Certified Repair Station # ZKGR483J

Date: 8/15/19  
 Flight: 420.8  
 Hobbs: 488.3

Cirrus: SR-22  
 N#: N1GT  
 S/N: 4450

**Horizon Avionics, Inc.**

2445 E. General Aviation Drive, Suite C, Alcoa, TN 37701. Tel: (865) 980-7858 Fax: (865) 980-7701

**ENGINE LOG ENTRY**

Oil sample taken. Drained oil and cut open filter, no metal noted. Installed new CH48108-1 torque and safetied. Serviced 8Qts Phillips 20W50. Grnd ran Ops & leak ck good.

**MAINTENANCE RELEASE**

I certify that this Engine has been repaired IAW Approved Maintenance procedures and is Approved For Return To Service. Pertinent Details Are On File Under Work Order No. M5148.

Signed: *[Signature]* Cert. No: *FAA 13167247* Date: *8/15/2019*  
 For Horizon Avionics, Inc.



ENGINE MODEL:  
ENGINE S/N: 1033489  
REG. NO: N21GT  
WORK ORDER: 6400



Nassau Flyers  
1300 New Hwy  
Farmingdale, NY 11735  
Phone 631-454-0626

DATE: 10/14/2019  
A/C TSN: 430.5  
ENG TT: 430.5  
TACH: 430.5

#### Engine Entries

- Performed a 100 hour inspection of engine per Cirrus AMM and Cirrus inspection checklists, Chaps 05-02 and 05-30.
- \*Ran engine to normal operating temperature and checked systems for normal operation, no defects noted.
- \*Performed engine compression leak down check, results were as follow: #1:62 #2:50 #3:58 #4:60 #5:58 #6:51.
- \*Master Orifice reading was 44
- \*Drained engine oil and collected oil sample for AV Lab oil analysis. Serviced engine with 8 quarts Phillips X/C 20w50.
- \*Removed/cleaned/inspected/reinstalled oil suction screen.
- \*Removed oil filter and inspected for metal contamination, no metal noted.
- \*Installed/torqued/saftied new oil filter(CH48-108).
- \*C/W ICA Tanis Engine Heater, no defects noted.
- \*Checked magneto to engine timing, adjusted as necessary
- Replaced all worn spark plugs with new
- Replaced leaking #2 and #5 cylinder exhaust push rod tube seals with new
- Removed all rocker cover gaskets and replaced with new
- Removed air conditioning compressor and drive, cleaned, and re-installed with new seals.
- Removed snapped clamps from cylinder #3, 5, and 6 fuel injector lines and replaced with new
- Washed down engine and lubricated controls
- \*Performed post inspection run up and leak check. no defects noted.

#### Maintenance Release

This aircraft, engine, propeller or component(s) on N21GT were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 10/14/2019

SIGNED:

Work Order: 6400

Darion McFadden, A&P: 4138120

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ENGINE MODEL: IO-550-N68B  
ENGINE S/N: 1033489  
REG. NO: N21GT  
WORK ORDER: 6573



Nassau Flyers  
1300 New Hwy  
Farmingdale, NY 11735  
Phone: 631-454-0626

DATE: 4/21/2020  
A/C TSN: 461.9  
ENG TT: 461.9  
TACH: 461.9

#### Engine Entries

- Performed a 100 hour inspection of engine per Cirrus AMM and Cirrus inspection checklists, Chaps 05-02 and 05-30.
- \*Ran engine to normal operating temperature and checked systems for normal operation, no defects noted.
- \*Performed engine compression leak down check, results were as follow: #1:60 #2:60 #3:63 #4:59 #5:64 #6:62.
- \*Master Orifice reading was 43.
- \*Drained engine oil and collected oil sample for AvLab oil analysis. Serviced engine with 8 quarts Phillips 20W50 X/C oil.
- \*Removed/cleaned/inspected/reinstalled oil suction screen.
- \*Removed oil filter and inspected for metal contamination, no metal noted.
- \*Installed/torqued/saftied new oil filter(CH48-108).
- \*Removed/cleaned/gapped/tested reinstalled all spark plugs with new gaskets, no defects noted.
- \*C/W ICA Tanis Engine Heater, no defects noted.
- \*Checked magneto to engine timing, adjusted as necessary.
- C/W Cirrus SB2X-71-33, Release of Continental Motors Service Document SB18-08B - Cylinder Inspection, by inspection, no affected cylinders installed.
- Removed, cleaned, inspected, tested and reinstalled all 6 fuel injector nozzles, no defects noted.
- Washed down engine and lubricated controls.
- \*Performed post inspection run up and leak check, no defects noted.

#### Maintenance Release

This aircraft, engine, propeller or component(s) on N21GT were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 4/21/2020

SIGNED:

Work Order: 6573

Sean McFadden, A&P: 3647763

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ENGINE MODEL: IO-550-N68B  
ENGINE S/N: 1033489  
REG. NO: N21GT  
WORK ORDER: 6620



Nassau Flyers  
1300 New Hwy  
Farmingdale, NY 11735  
Phone: 631-454-0626

DATE: 7/9/2020  
A/C TSN: 479.1  
ENG TT: 479.1  
TACH: 479.1

#### Engine Entries

- Performed engine operational and function check IAW Cirrus AMM 5-30.
- \*Performed engine 50 Hr. inspection IAW Cirrus AMM 5-20 and Continental AMM.
- \*Drained engine oil and collected oil sample for AvLab oil analysis. Serviced with 8 quarts of Phillips 20W50 X/C. Replaced oil filter with new (CH48-108). Performed particulate inspection on filter, no discrepancies noted.
- Washed down engine and lubricated controls.
- \*Performed post inspection run up and leak check with no discrepancies noted.
- \*All work accomplished IAW Cirrus AMM 12-10 and Continental AMM.

#### Maintenance Release

This aircraft, engine, propeller or component(s) on N21GT were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 7/9/2020

SIGNED:

Work Order: 6620

Sean McFadden, A&P: 3647763

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ENGINE MODEL: IO-550-N68B  
ENGINE S/N: 1033489  
REG. NO: N21GT  
WORK ORDER: 6727



**Nassau Flyers**  
1300 New Hwy  
Farmingdale, NY 11735  
Phone: 631-454-0626

DATE: 12/23/2020  
A/C TSN: 492  
ENG TT: 492  
TACH: 492

**Engine Entries**

- C/W Continental MSB18-08C Inspection and Maintenance Modification of Cylinder Assemblies by inspection (Cylinder S/N's: #1 AC16JC193, #2 AC16JB340, #3 AC16JA317, #4 AC16JA314, #5 AC16JC714, #6 AC16JB369), no defects noted.
- Removed alternator #1, c/w 500 hour inspection, replaced brush holder assembly, and re-installed same. Performed operational check of same, no defect noted.
- Removed alternator #2, c/w 500 hour inspection, replaced brush holder assembly, and re-installed same. Performed operational check of same, no defects noted.
- Removed LH magneto and replaced with rebuilt assembly (P/N: BL-500556-1; S/N off: D16KA097, S/N on: D19JA166R).
- Removed RH magneto and replaced with rebuilt assembly (P/N: BL-500556-1; S/N off: D16KA144, S/N on: D19JA340R).
- \*Checked magneto to engine timing, adjusted as necessary.
- Performed run up and leak check, no defects noted.

**Maintenance Release**

This aircraft, engine, propeller or component(s) on N21GT were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 12/23/2020

SIGNED:

Work Order: 6727

Darion McFadden, A&P: 4138120

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ENGINE MODEL: IO-550-N68B  
ENGINE S/N: 1033489  
REG. NO: N21GT  
WORK ORDER: 6828



**Nassau Flyers**  
1300 New Hwy  
Farmingdale, NY 11735  
Phone: 631-454-0626

DATE: 6/1/2021  
A/C TSN: 509.3  
ENG TT: 509.3  
TACH: 509.3

**Engine Entries**

- Performed a 100 hour inspection of engine per Cirrus AMM and Cirrus inspection checklists, Chaps 05-02 and 05-30.
- \*Ran engine to normal operating temperature and checked systems for normal operation, no defects noted.
- \*Performed engine compression leak down check, results were as follow: 1:65/80, 2:62/80, 3:62/80, 4:60/80, 5:65/80, 6:64/80.
- \*Master Orifice reading was 43.
- \*Drained engine oil and collected oil sample for AvLab oil analysis. Serviced engine with 8 quarts Phillips 20W50 X/C oil.
- \*Removed/cleaned/inspected/reinstalled oil suction screen.
- \*Removed oil filter and inspected for metal contamination, no metal noted.
- \*Installed/torqued/saftied new oil filter(CH48-108).
- \*Removed/cleaned/gapped/tested reinstalled all spark plugs with new gaskets, no defects noted.
- \*C/W ICA Tanis Engine Heater, no defects noted.
- \*Checked magneto to engine timing, adjusted as necessary.
- AD2020-16-11, Cross Flow Cylinder Assemblies, has been previously c/w on 04/21/20 by c/w Cirrus SB2X-71-33 per Continental SB18-08B dated 01/13/2020 as allowed by paragraph (k) of this AD. No further action is necessary at this time.
- Removed fuel injector nozzles, cleaned, inspected, tested, and reinstalled. No defects noted.
- Adjusted engine idle and mixture to correct specs per CAMM.
- Washed down engine and lubricated controls.
- \*Performed post inspection run up and leak check, no defects noted.

**Maintenance Release**

This aircraft, engine, propeller or component(s) on N21GT were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 6/1/2021

SIGNED:

Work Order: 6828

Darion McFadden, A&P: 4138120

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ENGINE MODEL: IO-550-N68B  
ENGINE S/N: 1033489  
REG. NO: N21GT  
WORK ORDER: 7015



**Nassau Flyers**  
1300 New Hwy  
Farmingdale, NY 11735  
Phone: 631-454-0626

DATE: 1/28/2022  
A/C TSN: 543.3  
ENG TT: 434.9  
TACH: 543.3

**Engine Entries**

- Performed engine operational and function check IAW Cirrus AMM 5-30.
- \*Performed engine 50 hr inspection IAW Cirrus AMM 5-20 and Continental AMM.
- \*Drained engine oil and collected oil sample for AvLab oil analysis. Serviced with 8 quarts of Phillips 20W50 X/C. Replaced oil filter with new (CH48-108). Performed particulate inspection on filter, no discrepancies noted.
- \*Washed down engine and lubricated controls.
- \*Performed post inspection run up and leak check with no discrepancies noted.
- \*All work accomplished IAW Cirrus AMM 12-10 and Continental AMM.

**Maintenance Release**

This aircraft, engine, propeller or component(s) on N21GT were repaired and inspected in accordance with current Federal Aviation Regulations and manufacturers recommendations and was found to be in airworthy condition. This aircraft, engine, propeller or component(s) is approved for return to service regarding the work performed and described above, this date and times.

DATE: 1/28/2022

SIGNED:

Work Order: 7015

Darion McFadden, A&P: 4138120

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