

# ENGINE LOG BOOK



## 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 bulletins 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  
1-251-438-8299 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:

**Mattituck Services**  
410 Airway Drive  
Mattituck, NY 11952 USA

**USE ONLY FUEL CONFORMING TO ASTM D910  
USE OF AUTOMOTIVE FUEL IS PROHIBITED**



### **Continental Motors, Inc.**

Production Certificate 508

Printed: 2/8/2013

Test Date: 2/5/2013

**This engine model I0360ES16B , serial number 1007831 was rebuilt by Continental Motors in accordance with approved design data and the applicable requirements of Part 21 of the Federal Aviation Regulation. The approved design data for this engine incorporates all changes required by applicable Airworthiness Directives and Continental Motors Service Bulletins.**

*Thomas Howard*

engine



# INFINITY AVIATION

117 Penmeter Road /Nashua, NH 03063  
FAA Certified Repair Station #I6FR992Y

Date: 3/06/2013; Aircraft: N464CD; Type: SR20; S/N: 1495; Hobbs: 1508.60; Tach;; Total Time: 1508.60  
\* Removed the engine m/n IO-360-ES6 s/n 357939 due to a crack in the case. Installed a rebuilt engine from Continental Motors Inc. m/n IO-360-ES16 s/n 1007831. Installed the accessories and reinstalled the baffling. Serviced the engine with 9qts of Phillips 20W50 mineral oil. Performed an engine ground run with satisfactory results and no leaks noted. Performed a flight test and made adjustments as necessary.

I certify that this engine has been inspected in accordance with an Annual/100 hour Inspection and was determined to be in airworthy condition and is approved for return to service. Pertinent details of this inspection are on file at Infinity Aviation Services LLC under the work order listed.

Signature: Alan Desrosiers  
Date: 3/6/2013, W/O: I14746  
Infinity Aviation Services LLC  
FAA Certified Repair Station  
#I6FR992Y



# INFINITY AVIATION

117 Perimeter Road /Nashua, NH 03063  
FAA Certified Repair Station #I6FR992Y

Date: 4/04/2013; Aircraft: N464CD; Type: SR20; S/N: 1495; Hobbs: 1524.40; Tach;; Total Time:  
\* Performed an engine ground run. Found the engine would stall on cold start at low RPM. Warmed the engine to operating temperatures and found no rise at the lower end. Adjusted the fuel/air mixture in accordance with SID97-3E. Adjusted idle RPM in accordance with SID97-3E and the Cirrus SR20 Maintenance Manual. Performed an engine ground run on cold start with no discrepancies noted.  
\* Drained and screened the oil for particles with none noted. Removed, cut open and inspected the oil filter for particles with none noted. Installed a new oil filter CH48108-1, torqued and safetied. Added 7 quarts of Phillips 20W50XC oil. Ground ran the engine and checked for oil leaks with no leaks noted.  
\* Checked the CHTs on the engine ground run. Found the #6 CHT to be 70 degrees high. Removed the #2 cylinder and #6 cylinder probes. Cleaned the connectors and swapped the probes. Performed an engine ground run and operationally tested the probes with satisfactory results. Ty-wrapped the harness as required.

Signature: Alan Desrosiers  
Date: 4/4/2013, W/O: 14852  
Infinity Aviation Services LLC  
FAA Certified Repair Station  
#I6FR992Y



Make: CIRRUS DESIG      Model: SR20      Reg. No.: N464CD  
Order No.: 1076                                          Completed: 06/21/13 00:00  
S/N: 1495                                                  Hobbs Time: 1576.20      TTAF: 1576.20  
Engine Log                                              Type: TCM:O360ES6      S/N: 357939

Removed engine cowls, Visually inspected engine. drained oil took sample for Blackstone sample kit. Removed cut open and inspected filter for contaminants. none found. installed and safetied new filter PN # CH48108-1. Filled engine with 7 quarts Phillips X/C 20W50. Reinstalled cowls. Ran and leak checked engine. do discrepancies found.

Anthony Malloy A&P2581801



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 →					

**Twin City Airmotive Inc (KFIT) Fitchburg, MA 01420 tel: 978-342-8700 Twincity98@verizon.net**

Date: 8/20/13	Hobbs: 1620.6	Tach: N 464CD	Engine Repairs		
Compression Test X/80	#1:	#2:	#3:	#4:	#5:
Engine SMOH:			Airframe Serial #: 1495		

**Performed the following repairs utilizing the manufacturer's maintenance manuals:**

1. Drained oil and removed filter to cut open and inspect for contaminants - none found. Installed new filter P/N CH48108-1. Serviced engine with 7 Qts of Phillips 20W50 X/C oil. Ran up engine and leak checked - none found at this time.  
End

This aircraft was inspected and/or repaired in accordance with the manufacturer's maintenance manuals. All systems interrupted have been tested and/or leak checked as necessary. This aircraft is approved for return to service with respect to the work performed. Pertinent details are on file at this agency under work order no. 6233 and a coy has been provided to the owner/operator.

Mark Maljanian A&P 33545223 *Maljanian*

**ENGINE**



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

N464CD SR-20 S/N 1495 10-18-13 Hobbs 1682.1

Drained oil, removed, cut open and inspected filter. Installed new filter and serviced engine with Philips XC 20W50 and CAMGUARD. Run-up and leak check OK

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 BO # **3571**

Date 10-18-13 Signed: *Robert de Malone*

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

# Engine Service and Maintenance Record

Date	Total Time		Time Since Last Overhaul		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 →

Total: 1764.2 ~~1666.5~~ 1764.2  
 Engine has been inspected  
 In accordance with an Annual inspection and was determined to be in an airworthy condition.  
 RO# 3655  
 Date: 4/14/14 Signature: [Signature]

Columbia Air Services-BHB, LLC CRS#ZKGR483J  
 Bar Harbor Airport, Trenton, ME 04605

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# 3655  
 Date 4/14/14 Signed [Signature]  
 Columbia Air Services-BHB, LLC CRS#ZKGR483J  
 Bar Harbor Airport Trenton, Me. 04605

Eng. Inspection using 3A20 N/MOS-10  
 RA Guide - Compressions 174/80 275/80  
 377/80 479/80 473/80 474/80. Changed oil  
 and filter. Filter temp was normal  
 serviced with Phlog 40 20/80 took  
 Blackstone sample Result RA MAG to  
 proper timing check RA 08-11-18  
 Heat exchanger test cleared  
 Fuel stations lubbed eng  
 Controls RA's checked Thru  
 B/W 2014-05 Eng Run up system +  
 leak checks were good

End

5-24-14 1666.5 1791.2

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# 3736  
 Date 7/21/14 Signed [Signature]  
 Columbia Air Services-BHB, LLC CRS#ZKGR483J  
 Bar Harbor Airport Trenton, Me. 04605

Replaced Bottom #4 spark plug  
 due to fail resistance check  
 poor spark ground opt mag  
 checks were good

6-30-14 H- 1801.6

Fuel Nozzle  
 Ground Run  
 MAG & back  
 were normal

Eng runs rough NO EGT #5 cyl.  
 clean & tested plugs, tested  
 Ignition wires tested EGT probe  
 all checked good cleaned #5

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# 3797  
 Date 8/20/14 Signed [Signature]  
 Columbia Air Services-BHB, LLC CRS#ZKGR483J  
 Bar Harbor Airport Trenton, Me. 04605

# 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

Date	Total Time		Time Since Last Overhaul	
	Hours	Min	Hours	Min
Carried forward →				
7/29/14	Hobbs	18	12	11
Changed oil and filter, took oil sample, cut open oil filter and inspected, no defects noted. Serviced with Phillips 20-50XC and Camguard. Sample kit used was Blectstone Run-up, leak and systems check good on ground.				
The Aircraft, Airframe, <u>Aircraft Engine</u> , 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# <u>3776</u> Date <u>7/29/14</u> Signed <u>[Signature]</u> Columbia Air Services-BHB, LLC CRS#ZKGR483J Bar Harbor Airport Trenton, Me. 04605				
2/9/15	Hobbs	18	46	6
Changed oil and filter, took Blectstone oil sample, cut open oil filter and insp. no defects noted. Serviced with Phillips 20-50XC and Camguard. Run-up and leak checked. no defects noted.				
The Aircraft, Airframe, <u>Aircraft Engine</u> , 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# <u>3894</u> Date <u>2/9/15</u> Signed <u>[Signature]</u> Columbia Air Services-BHB, LLC CRS#ZKGR483J Bar Harbor Airport Trenton, Me. 04605				
Total Time: _____ Total Time: <u>1878.9</u>				
I certify that this <u>Engine</u> has been inspected in accordance with <u>Approved</u> inspection and was determined to be in an <u>airworthy</u> condition.				
RO# <u>3917</u>				
Date: <u>3/12/15</u> Signature: <u>[Signature]</u>				
Columbia Air Services-BHB, LLC CRS# ZKGR483J Bar Harbor Airport Trenton, Me. 04605				
Engine impacted IRW Cirrus 4/1/05-20 Oil & Filter Change - Filter trap normal Serviced with <u>Phillips 20-50XC</u> compression: 11 79/80 21 79/80 35 76/80 41 76/80 45 76/80 47 76/80 46 NO 2008-11-18 Exhaust trap - Eng Run up for system & leak checks were good no defects noted				
The Aircraft, Airframe, <u>Aircraft Engine</u> , 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# <u>3917</u> Date <u>3/12/15</u> Signed <u>[Signature]</u> Columbia Air Services-BHB, LLC CRS#ZKGR483J Bar Harbor Airport Trenton, Me. 04605				

# 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

Date	Total Time		Time Since Last Overhaul	
	Hours	Min	Hours	Min
Carried forward →				
4-8-16		H	1918	M

Hobbs

Total Time: \_\_\_\_\_ Tech. Time: 1918.4

I certify that this ENGINE has been inspected  
 In accordance with an Annual inspection and  
 was determined to be in an Airworthy condition.

RO# 4164  
 Date: 4-8-16 Signature: [Signature]

Columbia Air Services-BHB, LLC CRS# ZKGR483J  
 Bar Harbor Airport, Trenton, ME 04605

Eng Inspected  
FAW SR-20 17/05-20 Change oil  
+ Filter - Filter Insp NORMAL serviced  
with Philipite 20/50 Blackstone  
Sample Taken - Heat exchanger  
checked per AD 08-11-19 + 3132X-78-0721  
Inspected Points + Retimed 17 MAG  
cleaned fuel strainers - cleaned  
Gapped + Tested Plugs. Eng Run-up  
for system + leak checks were  
Good No Defects Noted

Compressions:

1	64/50
2	74/50
3	72/50
4	74/50
5	42/50
6	54/50

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# 4164  
 Date 4/8/16 Signed [Signature]  
 Columbia Air Services-BHB, LLC CRS#ZKGR483J  
 Bar Harbor Airport Trenton, Me. 04605

4-14-17		Hobbs	1956	2
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Hobbs

Total Time: \_\_\_\_\_ Tech. Time: 1956.2 INSP

I certify that this ENGINE has been inspected  
 In accordance with an Annual inspection and FAW SR  
 was determined to be in an Airworthy condition.

RO# 4444  
 Date: 4/14/17 Signature: [Signature]

Columbia Air Services-BHB, LLC CRS# ZKGR483J  
 Bar Harbor Airport, Trenton, ME 04605

change oil  
+ Filter  
Took Blackstone sample filter INSP  
was normal serviced with Philipite  
20/50 Replaced 10 worn/failed  
Plugs URHM 38E Replaced C&T Probe  
#3 cylinder 6W AD 2008-11-18 Heat  
exchanger Engine run up for  
system + leak checks were  
Good No Defects Noted

Compressions

1	74/50
2	78/50
3	77/50
4	76/50
5	71/50
6	79/50

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# 4444  
 Date 4/14/17 Signed [Signature]  
 Columbia Air Services-BHB, LLC CRS#ZKGR483J  
 Bar Harbor Airport Trenton, Me. 04605

# Engine Service and Maintenance Record

Date	Total Time		Time Since Last Overhaul	
	Hours	Min	Hours	Min

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

Carried forward →

4-30-19 1996.6

Total Time: 1996.6 Tach. Time: 1996.6  
 I certify that this Engine has been inspected  
 In accordance with an Annual inspection and  
 was determined to be in an Airworthy condition.  
 RO# 4653  
 Date: 4-30-19 Signature: [Signature]

Compressions

1	71/80
2	78/80
3	70/80
4	77/80
5	68/80
6	73/80

Columbia Air Services-BHB, LLC CRS#ZKGR483J  
 Bar Harbor Airport, Trenton, ME 04605  
Engine Inspected FAR 58-20 M/M 05-20  
900 Separate Logs for AD's  
Changed Oil + Filter Took Blackstone  
Sample Filter Insp were Normal  
Serviced with Phillips #2050  
Replaced one failed Plug  
Other Plugs cleaned & Tested, OK  
6/W 27-78-07B1 Heat exchanger  
Imp & Pressure check No Defects  
Noted - Replaced both Magnets  
Due to 500 hr Exemption Ins failed  
Magnets O/M by Quality of Accessories  
under W/O 038041 + 038039. Engine  
run up for system + leak checks  
were  
Good  
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# 4653

Date: 4/30/19 Signed: [Signature]  
 Columbia Air Services-BHB, LLC CRS#ZKGR483J  
 Bar Harbor Airport Trenton, Me. 04605

Engine



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

6/6/2019

Total 2005.6

N464CD SR20 S/N 1007831

Inspected aircraft using FAR 43 Appx. "D" and Cirrus SR-20 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, checked mag timing and compressions 1) 66/80, 2) 71/80, 3) 70/80, 4) 70/80, 5) 43/80, 6) 44/80. Master Orifice reading 33/80. Both #5 & #6 cylinder compression low, leaking from exhaust valves, rechecked #5 52/80 and #6 50/80, per Cont. MM M-20, Chap. 6-4.11. AD's checked through biweekly 2019-10. 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 4954

Date: 6/6/2019

Signed: [Signature]

Columbia Air Services - BHB, LLC

112 Caruso Drive Trenton, ME 04605 FAA Certified Repair Station # ZKGR483J

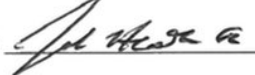


Date	Total Time		Time Since Last Overhaul		<i>Engine Service and Maintenance Record</i> Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	
Carried forward →					

**N464CD ENGINE LOG ENTRY**

November 9, 2020 Hobbs 2011.3 Completed 100HR inspection per FAR 43 App. (d) using Maine Aero inspection checklist as a guide. Drained oil and inspected oil filter. Serviced engine with 7QTS Phillips 20W50X/C oil. Checked compressions #1 65/80 #2 70/80 #3 71/80 #4 66/80 #5 35/80 #6 40/80. Removed #5 and #6 cylinders. Cleaned and inspect exhaust valve. Reinstalled cylinders with new gaskets. Cylinder #5 & 6 compressions now read 68/80. Checked AD's for compliance. Ground run up good with no leaks noted at this time. I certified that this engine has been inspected in accordance with a 100HR inspection and determined it to be in airworthy condition.

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-05469  
Authorized Signature   
CRS#6MXR656B

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



