

## ENGINE RECORD

Manufacturer: **Pratt & Whitney** Model: **R-985-AN-14B**

Serial No: **JP-215473**

Type Certificate: **5E-1**

This engine is currently installed in  
aircraft: \_\_\_\_\_

Min. Octane Fuel: **80/87 Aviation \*** Spark Plug Gap: **.015 - .018 in. \***

Oil Grade Summer: **120 wt.**

Winter: **100 wt.**

Magneto Time: **25° BTC**

Point Setting: **Bosch .008 - .010 in.**

Firing Order: **1-3-5-7-9-2-4-6-8**

**Bendix N/A**

Recommended Overhaul at \_\_\_\_\_ Hours. \*

Crankshaft Serial No.: **6803**

Cam Serial No.: **138728-16**

\* see Pratt & Whitney Maintenance Manual P/N 118611

## NOTES

### CAUTION

**RUN THIS ENGINE WITH NON-DETERGENT OIL 100-120  
UNTIL RINGS COMPLETELY SEAT.  
NONCOMPLIANCE NULLIFIES WARRANTY.  
WARRANTY VOID, IF ENGINE IS RUN  
WITH AUTOMOTIVE FUEL.**

In the absence of manufactures specific operating instructions please  
note the following recommendations:

- 1) Avoid Idling engine at lower Manifold Pressures for extended periods of time, for at least 35 hrs of operation.
- 2) Use full power at take-off to Facilitate proper cylinder cooling.
- 3) Maintain a least 1" of manifold pressure for every 100-RPM on extended descents.
- 4) Cruise Power - Maximum spread of 10 or less on Manifold to RPM. i.e. 2000 RPM = 30" Hg., 1900 RPM = 29" Hg.
- 5) Avoid shock-cooling Cylinder before and during shut down.

**COVINGTON AIRCRAFT ENGINES, INC.  
OKMULGEE OKLAHOMA 74447  
SHOP No. CP2R750K**

POWERPLANT MAINTENANCE LOGBOOK  
N79091 Beechcraft Staggerwing Model D17S/GB-2 S/N 1020  
Pratt & Whitney R-985-AN-1 S/N JP215473  
T.C.D.S 5E-1

08/20/2012

Total Time Powerplant-3,846.43

Total Time Since Overhaul-615.4

Hobbs Reading 237.3

Performed annual inspection in accordance with Title 14CFR Part 43 Appendix "D", in addition to performing a conformity inspection utilizing TCDS 5E-1. Additional data utilized was Airworthiness 7A and the Beechcraft Service Manual. Inspected all major alterations and repairs for continued airworthiness and for any airworthiness directives. Inspected powerplant and components for any applicable airworthiness directives. Performed the following maintenance items in accordance with AC-43-13-2B as revised, Beechcraft Service Manual, and utilizing elementary standard practices. All maintenance items were ground functionally checked as applicable. All parts procured were from approved sources and were inspected for eligibility and airworthiness prior to installation.

1. Performed compression check with engine hot. #1 78/80 #2 79/80 #3 76/80 #4 78/80 #5 79/80 #6 77/80 #7 76/80 #8 79/80 #9 78/80
2. Removed and replaced all spark plugs with new. P/N REM40E Lot# 30-16136
3. Drained engine oil. Removed oil screen. Cleaned and inspected. Installed oil screen and saftied. Refilled oil tank with six (6) gallons of Aeroshell 120W-60 oil for summer operations. Ground ran and leaked checked. No oil leaks

I certify that this powerplant was inspected for continued airworthiness, and was determined to be in airworthy condition for returned to service.

[REDACTED]

Patrick Lee Napolitano  
A&P [REDACTED] I.A.

POWERPLANT MAINTENANCE LOGBOOK  
N79091 Beechcraft Staggerwing Model D17S/GB-2 S/N 1020  
Pratt & Whitney R-985-AN-1 S/N JP215473  
T.C.D.S 5E-1

12/31/2012

Total Time Powerplant-Unknown

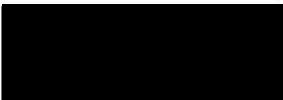

Total Time Since Overhaul-721.2

Hobbs Reading 341.3

Performed annual inspection in accordance with Title 14CFR Part 43 Appendix "D", in addition to performing a conformity inspection utilizing TCDS 5E-1. Additional data utilized was Airworthiness 7A and the Beechcraft Service Manual. Inspected all major alterations and repairs for continued airworthiness and for any airworthiness directives. Inspected powerplant and components for any applicable airworthiness directives. Performed the following maintenance items in accordance with AC-43-13-2B as revised, Beechcraft Service Manual, and utilizing elementary standard practices. All maintenance items were ground functionally checked as applicable. All parts procured were from approved sources and were inspected for eligibility and airworthiness prior to installation.

1. Performed compression check with engine hot. #1 78/80 #2 79/80 #3 76/80 #4 78/80 #5 79/80 #6 77/80 #7 76/80 #8 79/80 #9 78/80
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I certify that this powerplant was inspected for continued airworthiness, and was determined to be in airworthy condition for returned to service.

  
Patrick Lee Napolitano  
A&P  I.A.



## Engine Maintenance Log book entry

Pratt and Whitney R-985-AN-14B, SN JP215473,

Hobbs time 593.9, TSMOH 93.9, Engine TT: 4203.0

1. Performed a compression check 1-80/80, 2-80/80, 3-79/80, 4-80/80, 5-79/80, 6-80/80, 7-79/80, 8 79/80, 9-79/80. Drained the oil, cut and inspected the oil filter with no contaminants found. Inspected oil screen with no contaminants found. Drained all sumps and reinstalled the rocker recovery drain. Serviced the engine with 6 gallons of Aeroshell W120 oil. Test run and oil leak checked satisfactory.
2. Checked carb fuel screen with no contaminants found.
3. Cleaned and gapped all spark plugs.
4. Checked mag timing with no defects noted.
5. Checked all engine controls with no defects noted.
6. Check torque on push rod seals. Retorqued all pushrods and re-safetied as required.
7. Installed missing carb induction screen. Disassembled intake system to access as required. Installed the screen. Reinstalled carb, carb air box and inlet ducts as required.
8. Relocated alternator output so the main power output did not run through the firewall closure panels. Route cable through firewall to alternator as required.
9. Complied with the 100 hour engine valve adjustment. Checked and adjusted valve clearances in accordance with the P&W R-985 overhaul manual.
10. Installed fuel pump drive pad assembly. Removed fuel pump. Removed drive pad. Cleaned all mounting surfaces. Installed fuel pump drive pad (Covington supplied) and reinstalled the fuel pump. Test run and leak checked good.

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

09-01-2015, Hobbs 593.9, Time Since Major Overhaul: 93.9, Engine Total Time: 4203.0

  
Michael E. Stanko A&P  IA

**Gemco Aviation Svcs Inc.**

North Lima, OH 44452

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Reg #: **NC79091** Make: **Beechcraft D17S** S/N: **1020**  
Date: **11-13-2015** Meter: **633.9** ETSMOH: **633.9**

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Drained engine oil and removed sample for testing.  
Removed filters cut and inspected, with no defects noted. Installed new filter P/N AFC-700 and serviced with 7 gallons of Aeroshell W120 oil. Engine was run and no leaks were noted.

Christopher T. Kotch A&P

**POWERPLANT MAINTENANCE LOGBOOK**  
**N79091 Beechcraft Staggerwing Model D17S/GB-2 S/N 1020**  
**Pratt & Whitney R-985-AN-1 S/N JP215473**  
**T.C.D.S 5E-1**

09/23/2016

Total Time Powerplant-4,521.0

Total Time Since Overhaul-412.0

Hobbs Reading 912.0

Performed annual inspection in accordance with Title 14CFR Part 43 Appendix "D", in addition to performing a conformity inspection utilizing TCDS 5E-1. Additional data utilized was Airworthiness 7A and the Beechcraft Service Manual. Inspected all major alterations and repairs for continued airworthiness and for any airworthiness directives. Inspected powerplant and components for any applicable airworthiness directives. Performed the following maintenance items in accordance with AC-43-13-2B as revised, Beechcraft Service Manual, and utilizing elementary standard practices. All maintenance items were ground functionally checked as applicable. All parts procured were from approved sources and were inspected for eligibility and airworthiness prior to installation.

1. Performed compression check with engine hot. #1 78/80 #2 79/80 #3 76/80 #4 78/80 #5 79/80 #6 77/80 #7 76/80 #8 79/80 #9 78/80
2. Drained engine oil. Removed oil screen and oil filter. Cleaned and inspected screen and installed new oil filter. Installed oil screen and secured. Refilled oil tank with six (6) gallons of Aeroshell 120W-60 oil for summer operations. Ground ran and leaked checked. No oil leaks

I certify that this powerplant was inspected for continued airworthiness, and was determined to be in airworthy condition for returned to service.

  
Patrick Lee Napolitano  
A&P  I.A.

**POWERPLANT MAINTENANCE LOGBOOK**  
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**Pratt & Whitney R-985-AN-1 S/N JP215473**  
**T.C.D.S 5E-1**

12/3/2016

Total Time Powerplant-4,590.0

Total Time Since Overhaul-481.0

Hobbs Reading 981.0

Performed annual inspection in accordance with Title 14CFR Part 43 Appendix "D", as revised. Additional data utilized was Airworthiness 7A and the Beechcraft Service Manual. Inspected all major alterations and repairs for continued airworthiness and for any airworthiness directives. Inspected powerplant and components for any applicable airworthiness directives. Performed the following maintenance items in accordance with AC-43-13-2B as revised, Beechcraft Service Manual, and utilizing elementary standard practices. All maintenance items were ground functionally checked as applicable. All parts procured were from approved sources and were inspected for eligibility and airworthiness prior to installation.

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Patrick Lee Napolitano  
A&P [REDACTED] I.A.



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**T.C.D.S 5E-1**

12/31/2017

Total Time Powerplant: 4,828.7

Total Time Since Overhaul: 719.7

Hobbs Reading: 1,219.7

Performed annual inspection in accordance with Title 14CFR Part 43 Appendix "D", as revised. Additional data utilized was Airworthiness 7A and the Beechcraft Service Manual. Inspected all major alterations and repairs for continued airworthiness and for any airworthiness directives. Inspected powerplant and components for any applicable airworthiness directives. Performed the following maintenance items in accordance with AC-43-13-2B as revised, Beechcraft Service Manual, and utilizing elementary standard practices. All maintenance items were ground functionally checked as applicable. All parts procured were from approved sources and were inspected for eligibility and airworthiness prior to installation.

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[REDACTED]

Patrick Lee Napolitano  
A&P [REDACTED] I.A.