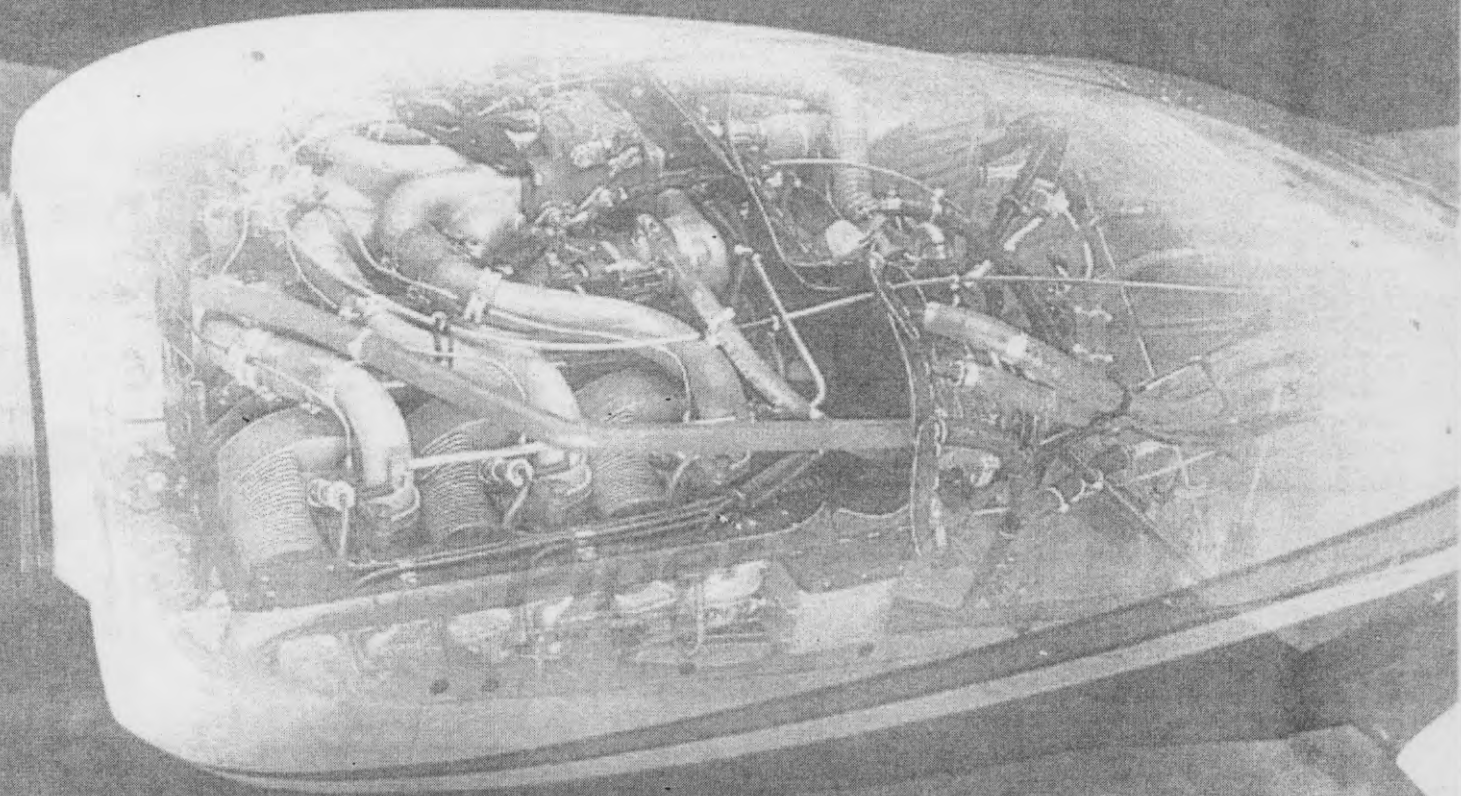


# ENGINE LOG BOOK



## CONTINENTAL MOTORS

## Service Information

Service Bulletins and Technical Publications are available on a direct mail basis from the factory. Orders must be prepaid. Send for order form or call 334-438-3411, publications department, for information.

## Engine Returns

All returned engines are to be shipped with this log book Directly to:

Teledyne Continental Motors  
Abbeville Industrial Park  
Suite 159  
Abbeville, AL 36310

**USE ONLY FUEL CONFORMING TO ASTM D910  
USE OF AUTOMOTIVE GAS IS NOT APPROVED.**

This engine model T0550D7, Serial Number 680053  
was manufactured on 11-14-01 by Teledyne 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 Teledyne  
Continental Motors Service Bulletins.



TELEDYNE CONTINENTAL MOTORS  
A TELEDYNE TECHNOLOGIES COMPANY



**CONTINENTAL MOTORS**


A Teledyne Technologies Company

P.O. Box 90 • Mobile, Alabama 36601  
(334) 438-3411

# ENGINE WARRANTY REGISTRATION

This is your **ENGINE WARRANTY/RUST and CORROSION AWARENESS PROGRAM REGISTRATION** form. It is essential that it be properly completed and returned to TCM Warranty Department immediately. This will expedite processing of the claim should your engine require repair or replacement as provided in the appropriate warranty policy.

**PLEASE COMPLETE AND RETAIN FOR OWNER'S RECORD**



**CONTINENTAL MOTORS**  
A Teledyne Technologies Company

OWNER'S NAME PAUL MENNEN

OWNER'S ADDRESS 1452 OWEN SOUND DR.

CITY, STATE, ZIP SUNNYVALE, CA 94087

COUNTRY U.S. TELEPHONE 408-737-8192

SIGNATURE Paul Mennen

Engine Model I0-550-D7B Serial # 680053-N

Date of Installation 13-FEB-02 Tach Time ∅

Aircraft Model Cessna A185F Serial # 18502213


Year Manufactured 1973 Total Airframe Time 3809.0

What Engine is being replaced? I0-520

Serial # 221497-730 Model I0-520-D

Hours 3809.0

**PLEASE COMPLETE AND RETURN TO TCM IMMEDIATELY TO REGISTER WARRANTY**



**CONTINENTAL MOTORS**  
A Teledyne Technologies Company

OWNER'S NAME PAUL MENNEN

OWNER'S ADDRESS 1452 OWEN SOUND DR

CITY, STATE, ZIP SUNNYVALE, CA 94087

COUNTRY U.S. TELEPHONE 408-737-8192

SIGNATURE Paul Mennen

Engine Model I0550-D7B Serial # 680053-N

Date of Installation 13-Feb-02 Tach Time ∅

Aircraft Model Cessna A185F Serial # 18502213

Year Manufactured 1973 Total Airframe Time 3809.0

What Engine is being replaced? I0520

Serial # 221497-730 Model I0-520-D

Hours 3809.0

### Owners Validation Of Engine Preservation For Active And Stored Aircraft.

I certify that I have read and understand the information provided in SB M91-5 or current revision as applicable.

SIGNATURE Paul Mennen





## CONTINENTAL MOTORS REBUILT ENGINE WARRANTY

Each rebuilt aircraft engine shipped from Teledyne Continental Motors' plant on or after August 1, 1999 is warranted as follows:

1. (a) For a period of twelve (12) months or five hundred (500) hours of operation, whichever occurs first, after the warranty activation date Teledyne Continental Motors (TCM) will at its option repair or replace on an exchange basis any engine component or part manufactured or supplied by it which within the applicable twelve (12) month or five hundred (500) hour period is returned to a TCM representative authorized to handle the engine covered by this warranty and which upon examination is found to the satisfaction of TCM to be defective in material or workmanship. The warranty activation date is the date the engine is first operated for any use or the 180th day after TCM's invoice date, whichever occurs first.  
  
(b) TCM will pay for reasonable labor costs associated with repairs or replacements under paragraph 1(a) of this warranty and for "troubleshooting" costs associated with identifying the need for such repairs or replacements when coordinated through an authorized TCM representative. The amount of repair and replacement labor costs allowed will be in accordance with the latest revision of the warranty labor allowance schedule, Form X30552, published by TCM. The amount of "troubleshooting" costs allowed will be the reasonable costs under the circumstances of identifying the need for such repairs or replacements, but in no event will the "troubleshooting" costs allowed exceed fifteen percent (15%) of the labor costs associated with such repairs or replacements allowed by TCM. No "troubleshooting" cost allowance will be made where the need for repairs or replacements is identified in the course of overhaul, routine maintenance or on the basis of an obvious defect.  
  
(c) TCM will pay transportation costs in connection with the repair or replacement of any engine, component or part found to the satisfaction of TCM to be defective in material or workmanship under paragraph 1(a) of this warranty. The engine, component or part must be shipped prepaid to the repair facility designated by TCM. Transportation cost reimbursement for engines will be the actual surface freight charge or \$500.00, whichever is less. Engines must be described on the bill of lading as follows: "Internal combustion engine, other than Radial Cyl RVNX \$5.00". Transportation cost reimbursement for components or parts will be the actual surface freight charge for shipment of the component or part or the currently published UPS surface rate schedule, whichever is less.
2. (a) After the expiration of the applicable twelve (12) months or five hundred (500) hour period described above and before the expiration of an additional twenty-four (24) month period or expiration of one thousand (1000) hours of operation, whichever occurs first, TCM will at its option repair or replace on an exchange basis any cylinder or related part manufactured or supplied by it which is found to the satisfaction of TCM to be defective in material or workmanship. For purposes of this warranty, the cylinder and related parts are defined as the cylinder, cylinder intake and exhaust valves, valve inserts, valve guides, valve springs and their retaining parts, pistons, piston rings and related O-rings and gaskets.  
  
(b) In the event that TCM elects to repair in the field, rather than replace, any cylinder component or related part under paragraph 2(a), TCM will pay labor costs for the repair of the cylinder component or related part only. The amount of repair labor costs allowed will be in accordance with the latest revision of the warranty labor allowance schedule, Form X30552, published by TCM. TCM will not assume any responsibility for labor costs for the removal and/or re-installation of the cylinder or related part, costs for "troubleshooting" or any other labor costs associated with repairs or replacements under paragraph 2(a).  
  
(c) TCM will not assume any responsibility for transportation costs associated with repairs or replacements under paragraph 2(a) of this warranty.

3. The coverage under this warranty applicable to cylinder assemblies and related parts shall be subject to the terms, conditions and limitations set forth in the applicable TCM TopCare<sup>SM</sup> Cylinder Warranty.
4. Repair or replacement of any engine or part under this warranty will not extend the period of warranty coverage set forth above. TCM reserves the right at its option to replace any defective engine or part with either a new or rebuilt engine or part.
5. This warranty applies only to engines in which parts manufactured or supplied by TCM or parts manufactured pursuant to an FAA Parts Manufacturer Approval have been used and nothing contained herein should be construed as a warranty by TCM of any engine or part not manufactured or supplied by TCM. TCM accepts no responsibility for the failure of any engine or part which it does not manufacture or supply or damage resulting from such failure.
6. This warranty applies only to engines which have been installed, inspected and maintained in accordance with the instructions for continued airworthiness, including compliance with all applicable service bulletins issued by TCM, the aircraft manufacturer or any accessory or component manufacturer. Performance of recommended inspections and maintenance must be documented by appropriate logbook entries and the logbook must accompany any engine being returned for warranty consideration.
7. This warranty does not apply to any engine, component or part manufactured or supplied by TCM which (1) has been subject to misuse, neglect or accident; (2) has been installed, repaired, maintained or altered in any way that in the judgment of TCM has adversely affected the condition of the engine; (3) has been operated inconsistent with TCM and aircraft manufacturer recommendations and limitations (such as, but not limited to engine RPM, temperature, manifold pressure, fuel flow and proper system adjustment) or (4) has been changed from its original FAA certificated configuration.
8. TCM will not be responsible for repair or replacement of any engine, component or part damaged or worn as a result of corrosion, pre-ignition/detonation, operation with non-calibrated engine gauges, improper fuel system adjustment, non-TCM approved fuel and oil grades or additives or installation of parts, components or accessories that alter the engine's original type design.
9. The provisions of this warranty do not apply to normal maintenance service (such as engine tune-ups, adjustments, inspections, engine or component overhaul resulting from time between overhaul (TBO) recommendations, etc.) or to the replacement of normal service items (such as spark plugs, filters, hoses, belts, etc.).
10. TCM reserves the right to change any engine or part specifications or prices without incurring any responsibility with regard to engines or parts previously sold or replaced.
11. THIS WARRANTY IS A WARRANTY TO REPAIR OR REPLACE AND NOT A WARRANTY OF THE CONDITION OR FUTURE PERFORMANCE OF THE PRODUCTS WHICH IT COVERS. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, SPECIFICALLY, BUT WITHOUT LIMITATION, THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL TCM BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY DEFECT IN ANY ENGINE OR PART, ARISING OUT OF THE FAILURE OF ANY ENGINE OR PART TO OPERATE PROPERLY, OR ARISING OUT OF ANY BREACH OF THE WARRANTY MADE HEREIN. No person is authorized to give any other warranty or to assume any additional obligation or liability on behalf of TCM.



**CONTINENTAL MOTORS**  
Mobile, Alabama 36601  
©1999, Teledyne Industries, Inc.



## CONTINENTAL MOTORS TOP CARE<sup>SM</sup> CYLINDER WARRANTY

This TopCare Cylinder Warranty provides special warranty coverage for cylinders and related parts shipped from Teledyne Continental Motors' plant on or after August 1, 1999 provided certain eligibility requirements are met. In the event that the eligibility requirements for this TopCare Cylinder Warranty are not met, the terms and conditions of the Teledyne Continental Motors (TCM) Aircraft Engine Part, Component & Accessory Warranty will apply.

- 1. Engines Eligible for TopCare Cylinder Warranty Coverage:** Any TCM aircraft engine meeting the eligibility requirements of Paragraph 2 of this warranty is eligible for coverage.
- 2. Eligibility Requirements:** This Top Care Cylinder Warranty applies only to cylinders and related parts shipped from TCM's plant on or after August 1, 1999. For purposes of this warranty, the cylinder and related parts are defined as the cylinder, cylinder intake and exhaust valves, valve inserts, valve guides, valve springs and their retaining parts, pistons, piston rings and related O-rings and gaskets. To be eligible for TopCare Cylinder Warranty coverage these parts must be installed together and used in combination with each other.

### Required TopCare Health Check Inspections

To be eligible for coverage under this TopCare Cylinder Warranty and to maintain that coverage the aircraft must be inspected at a Fixed Base Operator (FBO) facility in accordance with the TopCare Health Check Inspection set forth in the latest revision of TCM Service Information Directive 97-2 (SID 97-2) as follows:

- (A) For new aircraft:** Each new aircraft powered by a TCM engine shipped from TCM's plant on or after August 1, 1999 is covered by this TopCare Cylinder Warranty. To maintain coverage the aircraft must be inspected at least once per year in accordance with the TopCare Health Check inspection set forth in the latest revision of SID 97-2 and any discrepancies corrected at that time.
- (B) For aircraft in service:** For an aircraft in service in which a new or rebuilt aftermarket TCM engine shipped from TCM's plant on or after August 1, 1999 or for an aircraft having an engine in which a new cylinder supplied by TCM on or after August 1, 1999 is installed, the TopCare Health Check Inspection must be performed at time of installation and at least once per year thereafter in accordance with the TopCare Health Check Inspection set forth in the latest revision of SID97-2 and any discrepancies corrected at that time.

### Enrollment and Documentation Requirements

Each new aircraft powered by an engine that incorporates cylinders and related parts shipped from TCM's plant on or after August 1, 1999 is covered and no enrollment is required. For other than new aircraft, enrollment under the TopCare Cylinder Warranty must be accomplished by performing the initial TopCare Health Check Inspection at time of engine (or cylinder) installation and correcting any discrepancies at that time. The TopCare Health Checklist Form attached to the latest revision of SID97-2 must be completed, signed by the inspecting mechanic and a copy returned along with the TopCare Cylinder Warranty Enrollment Form attached to the latest revision of SID97-2 to:

Teledyne Continental Motors  
Attn: Warranty Services  
P.O. Box 90  
Mobile, Alabama 36601-0090

To maintain coverage under the TopCare Cylinder Warranty, the TopCare Health Check Inspection must be performed at least once per year and any discrepancies corrected at that time. The TopCare Health Checklist Form must be completed for each inspection, signed by the inspecting mechanic and retained by the owner for submittal to TCM with any claim under the TopCare Cylinder Warranty. Each required



TopCare Health Check Inspection must have been properly performed and documented on the TopCare Health Checklist Form. The TopCare Health Checklist Form for each inspection must be submitted to TCM with any claim under this TopCare Cylinder Warranty. Copies of work orders documenting the performance of the required TopCare Health Inspection and correction of any discrepancies must also be submitted to TCM upon request.

### 3. TopCare Cylinder Warranty Coverage:

- (A) For a period of twelve (12) months or one thousand (1000) hours of operation, whichever occurs first, after the warranty activation date, TCM will at its option repair or replace on an exchange basis any cylinder component or related part manufactured or supplied by it which within the applicable twelve (12) month or one thousand (1000) hour period is returned to a representative of TCM authorized to handle the engine in which the cylinder component or related part covered by this warranty is installed and which upon examination by TCM is found to be defective in material or workmanship. For cylinders installed in new or rebuilt engines, the warranty activation date is the date the engine is first operated for any use or the 180<sup>th</sup> day after TCM's invoice date, whichever occurs first. For cylinder components purchased as aftermarket replacement components, the warranty activation date is the date the cylinder is first operated for any use. TCM will pay for reasonable labor costs associated with repairs or replacements under paragraph 3(A) of this warranty and for "troubleshooting" costs associated with identifying the need for such repairs or replacements when coordinated through an authorized TCM representative. The amount of repair or replacement labor costs allowed will be in accordance with the latest revision of the warranty labor allowance schedule, Form X30552, published by TCM. The amount of "troubleshooting" costs allowed will be the reasonable costs under the circumstance of identifying the need for such repairs or replacements, but in no event will the "troubleshooting" costs allowed exceed fifteen percent (15%) of the labor costs associated with such repairs or replacements allowed by TCM. No "troubleshooting" cost allowance will be made where the need for repairs or replacements is identified in the course of overhaul, routine maintenance or on the basis of an obvious defect.
- (B) After the expiration of the twelve (12) month period described in paragraph 3(A) and before the expiration of an additional twenty-four (24) month period or expiration of one thousand (1000) hours of operation, whichever occurs first, TCM will at its option repair or replace on an exchange basis any cylinder component or related part manufactured and supplied by it which is found to the satisfaction of TCM to be defective in material or workmanship.
- (C) In the event that TCM elects to repair in the field, rather than replace any cylinder component or related part under paragraph 3(B) of this warranty, TCM will pay labor costs for the repair of the cylinder component or related part only. The amount of repair labor costs allowed will be in accordance with the latest revision of the warranty labor allowance schedule, Form X30522, published by TCM. TCM will not assume any responsibility for labor costs for the removal and/or re-installation of the cylinder component or related part, costs for "troubleshooting" or any other labor costs associated with repairs or replacements under paragraph 3(B) of this warranty.
- (D) TCM reserves the right at its option to replace any defective cylinder component or related part with either a new or rebuilt cylinder component or related part.
- (E) Repair or replacement of any cylinder component or related part under this warranty will not extend the period of warranty coverage set forth above.
- (F) TCM will not assume any responsibility for transportation costs in connection with the repair or replacement of any cylinder component or related part under this warranty, except when such transportation has been expressly authorized by TCM. When authorized, transportation cost reimbursement for cylinder components will be the actual surface freight cost or the currently published UPS surface rate schedule, whichever is less.
- (G) This warranty applies only to cylinders in which parts manufactured or supplied by TCM or parts manufactured pursuant to an FAA Parts Manufacturer Approval have been used and nothing contained herein should be construed as a warranty by TCM of any cylinder or related part not manufactured or supplied by TCM. TCM accepts no responsibility for the failure of any cylinder or related part which it does not manufacture or supply or damage resulting from such failure.

- (H) This warranty also applies only to cylinders and related parts on which the installation, inspection, maintenance and operating instructions and recommendations contained in the appropriate operator's manual, overhaul manual and applicable service bulletins have been complied with. Performance of recommended inspections and maintenance must be documented by appropriate logbook entries and a copy of the logbook must accompany any cylinder and related part being returned for warranty consideration.
- (I) This warranty does not apply to any cylinder or related part manufactured or supplied by TCM which has been subject to misuse, neglect or accident or which has been installed, repaired, maintained or altered in any way that in the judgment of TCM has adversely affected the condition of the engine or which has been operated beyond factory recommendations (such as, but not limited to RPM, temperature, manifold pressure, fuel flow and proper system adjustment).
- (J) TCM will not be responsible for repair or replacement of cylinder components or parts damaged or worn as a result of corrosion, pre-ignition/detonation, operation with non-calibrated engine gauges, improper fuel system adjustment, non-TCM approved fuel and oil grades or additives and installation of parts, components or accessories that alter the engines' original type design.
- (K) The provisions of this warranty do not apply to normal maintenance service or to the replacement of normal service items. This warranty does not cover any costs related to the performance of the TopCare Health Check Inspection.
- (L) TCM reserves the right to change any part specifications or prices without incurring any responsibility with regard to engines or parts previously sold or replaced.
- (M) THIS WARRANTY IS A WARRANTY TO REPAIR OR REPLACE AND NOT A WARRANTY OF THE CONDITION OR FUTURE PERFORMANCE OF THE PRODUCTS WHICH IT COVERS. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, SPECIFICALLY, BUT WITHOUT LIMITATION, THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL TCM BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY DEFECT IN ANY CYLINDER OR RELATED PART, ARISING OUT OF THE FAILURE OF ANY CYLINDER OR RELATED PART TO OPERATE PROPERLY, OR ARISING OUT OF ANY BREACH OF THE WARRANTY MADE HEREIN. No person is authorized to give any other warranty or to assume any additional obligation or liability on behalf of TCM.



**CONTINENTAL MOTORS**

Mobile, Alabama 36601

©1999, Teledyne Industries, Inc.



# Aircraft Engine Test Verification

This document verifies that the engine model listed below has satisfactorily completed all testing listed below in accordance with TCM standard engine testing specifications as approved by the FAA.

Engine Model

IO550D7B

Engine Serial Number

680053-N

**Testing Completed**

Standard Acceptance Test:

Date of Completion 11-12-01 Test Operator \_\_\_\_\_

TEST  
30





# CONTINENTAL MOTORS

A Teledyne Technologies Company


Form No. QA-85

10/19/01

Engine Model Z0550D7B

Engine S/N 680053-N



Date: 110801

Inspection Stamp 

Component Serial Numbers (As applicable)

CAMSHAFT Z015A010

CARBURETOR N/A

 CRANKSHAFT  N01JA173

FUEL PUMP B01JA354

CRANKCASE I270101P

MANIFOLD VALVE C01JA294

DRIVE GEAR N/A

STARTER J-120136

DRIVEN GEAR N/A

ALTERNATOR N/A

CONNROD AEO11A832

LT. TURBO N/A

CONNROD AEO11A831

RT. TURBO N/A

CONNROD AEO11A837

OVERBOOST N/A

CONNROD AEO11A857

CONTROLLER N/A

CONNROD AEO1HC161

WASTEGATE N/A

CONNROD AEO1HC187

OIL COOLER I01-191-80

LT. MAG F01JA255

NOZZLE SIZE 13AA, 12E, 12D

RT. MAG F01JA436

METERING UNIT A01JA349

| Date | Total Time |      | Time Since Last Overhaul |      | <b>Engine Service and Maintenance Record</b><br>Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins |
|------|------------|------|--------------------------|------|--|
|      | Hrs.       | Min. | Hrs.                     | Min. |  |

TORNADO ALLEY TURBO, INC.  
 300 AIRPORT ROAD  
 ADA, OK 74820

ENGINE LOGBOOK ENTRY  
 N3946Q TCM IO-550-D S/N 680053  
 ACFT TOTAL TIME: 3809.0

DATE: 12 FEB 02  
 ENGINE TSN: 0.0 STO H 0.0  
 ACFT TACH: 0.0

INSTALLED THIS ENGINE ON THIS AIRFRAME ON THIS DATE AND THESE AIRFRAME HOURS. INSTALLED NEW HARTZELL PROPELLER MODEL # PHC-C3YF-1RF/F7691 SN# EE3832B ON THIS ENGINE THESE HOURS. INSTALLED OVERHAULED PROP GOVERNOR. ALL OF THESE INSTALLATIONS ARE IAW DAVIS AVIATION SERVICES ENGINE UPGRADE STC SA2933SO AND DAVIS INSTALLATION INSTRUCTIONS. SEE POH FOR OPERATING PROCEDURES AND LIMITATIONS. INSTALLED TURBO-FLITE TURBONORMALIZING SYSTEM IAW TURBO-FLITE MASTER DRAWING LIST NO. FT185. INSTALLED GAMI TURBO GAMIJECTORS PN# GT16B KIT NO# 9673 IAW STC SE09289SC AND GAMI INSTALLATION INSTRUCTIONS. INSTALLED NEW AIRBORNE INSTRUMENT AIR PUMP PN# 212CU SN# 08972. ADDED 12 QTS OF AEROSHELL 80 STREIGHT MINERAL 40W OIL AND NEW CHAMPION FILTER ENGINE GROUND RUN, OP'S, AND LEAK CHECK FOUND OK.

*David R. Landreth* A&P 2651512  
 David R. Landreth A&P 2651512

|          |            |  |  |  |   |
|----------|------------|--|--|--|---|
| 7-MAR-02 | 18.5       |  |  |  | Oil change: Aeroshell SAE.50 AD<br>New filter: eH48110<br>Rossi Aircraft  |
| 7-1-02   | Tach 72.7  |  |  |  | Compressor: #1-74/80, #2-74/80, #3-74/80, #4-74/80, #5-74/80, #6-74/80. Change oil and filter, Aeroshell 100W. Install new air filter I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition.<br><i>T. Stant</i> HEP 2100211A |
| 12-20-02 | Tach 140.1 |  |  |  | Change oil and filter, Aeroshell 100W.<br><i>T. Stant</i> HEP 2100211A  |
|          |            |  |  |  |   |
|          |            |  |  |  |   |
|          |            |  |  |  |   |
|          |            |  |  |  |   |
|          |            |  |  |  |   |
|          |            |  |  |  |   |
|          |            |  |  |  |   |



| Date            | Total Time |       | Time Since Last Overhaul |      | <b>Engine Service and Maintenance Record</b><br>Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins  |
|-----------------|------------|-------|--------------------------|------|---|
|                 | Hrs.       | Min.  | Hrs.                     | Min. |   |
| Brought Forward | →          |       |                          |      |   |
| 6-24-03         | Tach       | 181.4 |                          |      | Compression: #1-68/80, #2-67/80, #3-63/80, #4-65/80, #5-65/80, #6-69/80, (47/80 min). Installed new air filter. Installed six new lower spark plugs. I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition.<br><i>B. Stoltz AIP2100211 IA</i>  |
| 4-26-04         | Tach       | 305.4 |                          |      | Change oil and filter, Aeroshell 100W.<br><i>B. Stoltz AIP2100211</i>   |
| 6-8-04          | Tach       | 309.6 |                          |      | Compression: #1-70/80, #2-75/80, #4-65/80, #6-65/80. Removed #3 and #5 cylinders, exhaust valves and guides replaced, intake valves and seats ground and lapped by Magnum Aviation. Reinstalled #3 and #5 cylinders with new seals and gaskets. Installed new air filter. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.<br><i>B. Stoltz AIP2100211 IA</i>                        |
| 1-30-05         | Tach       | 397.9 |                          |      | Changed oil and filter, Exxon Elite 20W50.<br><i>B. Stoltz AIP2100211</i>   |
| 7-1-05          | Tach       | 436.4 |                          |      | Compression: #1-72/80, #3-75/80, #5-73/80. Cylinders #2, #4, #6 removed, exhaust valves and guides replaced, intake valves ground and lapped by Magnum Aviation, cylinders reinstalled. Changed oil and filter, Exxon Elite 20W50. Installed new air filter. Installed six new spark plugs. I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition.<br><i>B. Stoltz AIP2100211 IA</i> |

| Date            | Total Time |      | Time Since Last Overhaul |      | Engine Service and Maintenance Record<br>Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins |
|-----------------|------------|------|--------------------------|------|---|
|                 | Hrs.       | Min. | Hrs.                     | Min. |   |
| Brought Forward | →          |      |                          |      |   |

SEPT 8 T= REPLACED CH48110-1 OIL FILTER & 10 QTS  
 2004 371 100W AEROSHHELL. C/W AD96-12-22 (VERIFY TORQUE PUTTY ON OIL FILTER ADAPTER; NEXT DUE @ OIL CHANGE. J.P. Poyner A/P 184248027

SEPT 22 T= 489.2 REPLACED CH48110-1 OIL FILTER & 10 QTS EXXON  
 2005 ELITE 20W50. C/W AD96-12-22 (VERIFY TORQUE PUTTY ON FILTER ADAPTER); NEXT DUE @ OIL CHANGE. J.P. Poyner A/P 184248027

7-7-06 Tach 524.3 Compression: #1-75/80 #2-74/80 #3-73/80 #4-72/80 #5-75/80 #6-73/80. Changed oil and filter, Exxon Elite 20W50. C/W AD 96-12-22 by inspecting oil filter adapter, next due next filter change. Installed new air filter element I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. B. Stout A&P 2100211 IA

6-20-07 Tach 599.3 Compression: #1-44/80 #2-44/80 #3-63/80 #4-74/80 #5-74/80 #6-63/80 (47/80 min). Changed oil and filter, Exxon Elite 20W50. C/W AD 96-12-22 by inspecting oil filter adapter, next due tach 699 or next filter change. Installed new air filter element I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. B. Stout A&P 2100211 IA

N4639Q Engine Log  
 6-24-08 Tach 689.0

Compression: #1-66/80, #2-66/80, #3-63/80, #4-74/80, #5-70/80, #6-63/80, (47/80 min.). Changed oil and filter, Exxon Elite 20W50. Installed new air filter element. C/W AD 96-12-22 by inspecting oil filter adapter, next due at tach 789 or next filter change. Removed and reinstalled #3 and #5 cylinders, exhaust valves and guides were replaced, intake valves and seats were ground. I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition.

B. Stout  
 Brian Stout A&P 2100211 IA

# SERVICEABLE

Mfgr. Name Airesearch Part No. 406610-9029  
Part Name turbocharger Serial LCR0191

The aircraft component identified above was completely overhauled in accordance with the manufacturer's specifications and with the current Regulations of the Federal Aviation Administration and is approved for return to service.

Pertinent details of the repair are on file at this repair station under

Work Order No. 38724

Date 8-21-08 Signed Dan Man

(Signature of Authorized Individual)

**MAIN TURBO SYSTEMS, INC.**

**234 Cotta Ct • Visalia, CA 93292**

Phone (559) 635-3322 • Repair Station #MAMR190K • FAX (559) 627-1960



Date

Total Time

Time Since  
Last Overhaul**Engine Service and Maintenance Record**Installations, Inspections, Airworthiness Directives, Special Inspections,  
Modifications and Service Bulletins

Hrs. Min.

Hrs. Min.

Brought Forward



6-12-09

Tech

744.9

Compression: #1-72/80, #2-65/80, #3-73/80, #4-65/80, #5-63/80, #6-65/80 (4780min). Changed oil and filter, ~~to~~ 20W50 Exxon Elite. Installed new air filter element. c/w AD 96-12-12 by inspecting oil filter adapter, next due next filter change. #5 exhaust stacks repaired by Kniskay Welding. I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition.

*B. Stets* #A? 2100211 JA

7-21-10

Tech

777.1

Compression: #1-75/80, #2-68/80, #3-70/80, #4-69/80, #5-62/80, #6-74/80 (4780min). Changed oil and filter, Exxon Elite 20W50. Installed new air filter element. c/w AD 96-12-22 by inspecting oil filter adapter, next due next filter change. AD 2009-16-03 N/A, Superior cylinders not installed, AD 2009-19-07 N/A, TCM EQ3 cylinders not installed, AD 2010-11-04 N/A by hydraulic lifters date of manufacture. Installed new inlet air duct. I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition.

*B. Stets* #A? 2100211 JA

10 JAN

T =

CHANGED OIL (10 QTS EXXON ELITE 20W-50) & OIL FILTER (CH48110-1), c/w AD 96-12-22 (INSP OF TORQUE PUTTY); NEXT DUE @ OIL CHANGE. *J.P. Reynar* AP184248027

2009

0726

NOV 4


T =

REPLACED OIL (10 QTS EXXON ELITE 20W50) & FILTER (CH48110), c/w AD 96-12-22 (INSP OF TORQUE PUTTY ON OIL FILTER ADAPTER); NEXT DUE AT OIL CHANGE. *J.P. Reynar* AP184248027.

2009

780

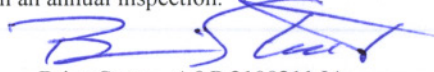
| Date | Total Time |      | Time Since Last Overhaul |      | <b>Engine Service and Maintenance Record</b><br>Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins |
|------|------------|------|--------------------------|------|--|
|      | Hrs.       | Min. | Hrs.                     | Min. |  |

Brought Forward 

**N3946Q**  
7-1-11

**Engine Log**  
Tach 847.0

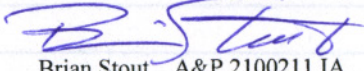
Compression; #1-71/80, #2-68/80, #3-70/80, #4-69/80, #5-70/80, #6-66/80. Changed oil and filter, Exxon Elite 20W50. C/W AD 96-12-22 by inspecting oil filter adapter, next due at next filter change or tach 947. Installed new air filter element. Replaced one broken spark plug. I certify that this engine has been inspected in accordance with an annual inspection.

  
Brian Stout A&P 2100211 IA

**N3946Q**  
7-1-12

**Engine Log**  
Tach 901.9

Compression; #1-69/80, #2-70/80, #3-75/80, #4-69/80, #5-75/80, #6-72/80. Changed oil and filter, Exxon Elite 20W50. C/W AD 96-12-22 by inspecting oil filter adapter, next due at next filter change. Installed new air filter element. AD 2012-03-06 N/A, AFS fuel servo diaphragm not installed. I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition.

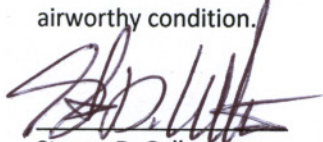
  
Brian Stout A&P 2100211 IA

06/01/13

N3946Q

Tach Time 929.7

I certify that this Engine Continental 10-550-D7B, S/N 680053-N has been inspected in accordance with an Annual Inspection and has been determined to be in airworthy condition.


  
Steven D. Culbertson

IA2073958

**N3946Q**  
1-14-14

**Engine Log**  
Tach 983.6


Changed oil and filter, Exxon Elite 20W50.

  
Brian Stout A&P 2100211

**N3946Q**  
7-1-14

**Engine Log**  
Tach 1008.1

Compression; #1-73/80, #2-64/80, #3-66/80, #4-63/80, #5-68/80, #6-73/80. Changed oil and filter, Exxon Elite 20W50. C/W AD 96-12-22 by inspecting oil filter adapter, next due at next filter change. Installed new air filter element. AD 2014-05-29 N/A, Superior cylinders not installed. I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition.

  
Brian Stout A&P 2100211 IA