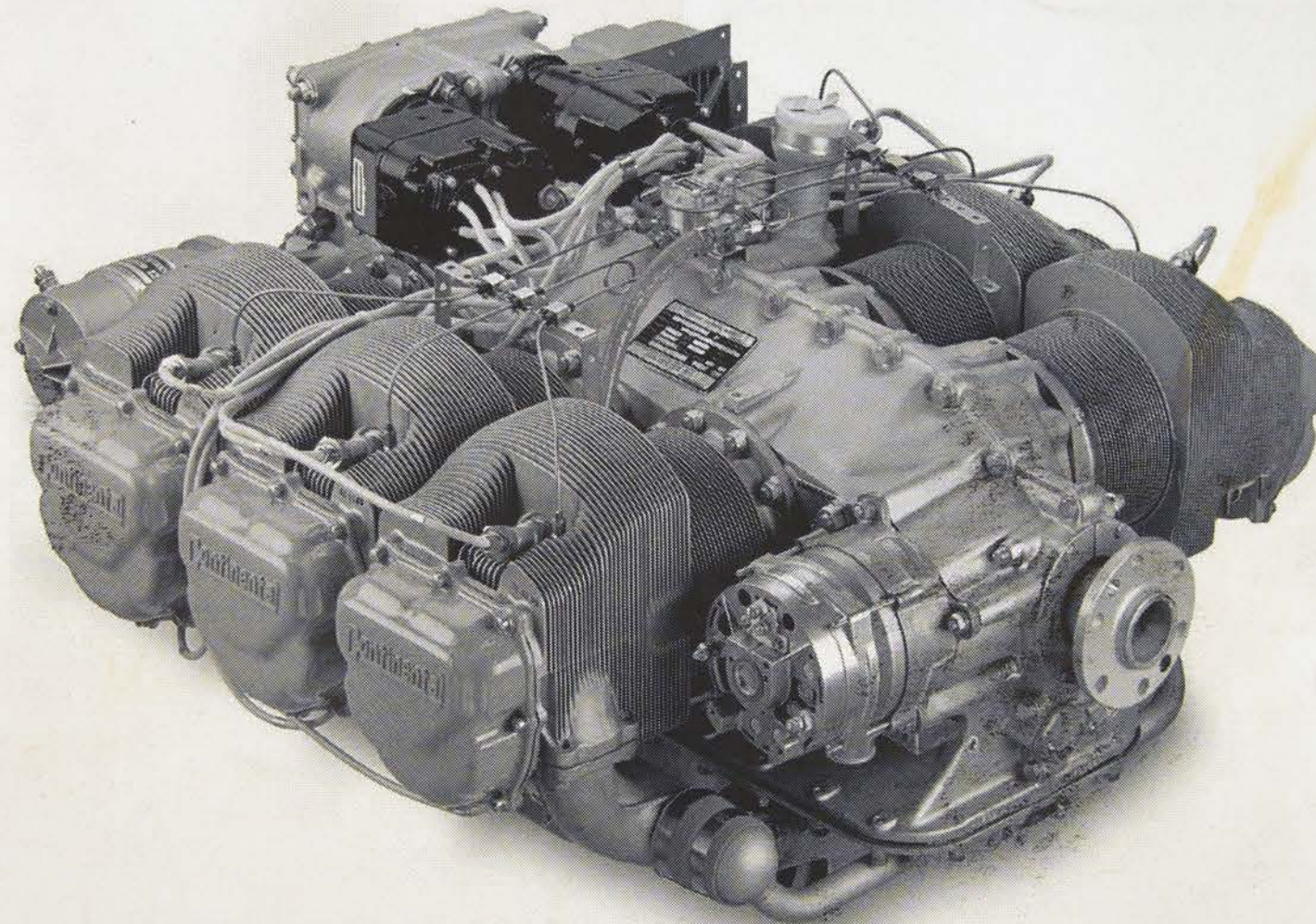


ENGINE LOG BOOK



Teledyne Continental Motors, Inc.

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.



Teledyne Continental Motors, Inc.

A Teledyne Technologies Company

Printed: 03/23/2005

This engine model I0470E18, Serial No. 088783 - R was manufactured on 03/22/2005 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.

Directives and Teledyne Continental Motors Service Bulletin

Thomas H. Howard

TELEDYNE CONTINENTAL MOTORS

A TELEDYNE TECHNOLOGIES COMPANY

PRODUCTION CERTIFICATE NO. 508

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.		
Twin City Airmotive (FIT) Fitchburg, Ma 01420 978-342-8700 tel. Twincity98@MSN.com							
4/7/2005		Hobbs		3425.37 Tach		N 9451X	Engine Repairs
Compression Test X/80		#1	#2	#3	#4	#5	#6
Performed the following repairs utilizing the manufactures maintenance manuals:							
		Airframe Serial #					
1) Prepared TCM Continental's factory remanufactured engine part number IO470E18B, Serial number 088783 for installation via the aircraft a Cessna 210 serial number 21057751: a) Transferred all inter cylinder baffles and all related metal cooling baffles. b) Installed generator bracket and the generator assembly. c) Installed vacuum pump. d) Installed Propeller governor. e) Installed the hydraulic pump and all related hoses. f) Installed all ancillary wiring.							
2) Traveled to the aircraft's location (JFK) with the owner operator and performed the following on site services: a) Removed all associated aircraft cowls and prepped the engine bay prior to installation. b) Removed and replaced the aircraft's engine mount with an overhauled exchanged unit provided by Kosola and Associates part number 1251000-1, serial number K2621 under work order number 32621. Installed the mount In Accordance With Cessna's maintenance manual. Utilized all new hardware. c) Installed TCM's Continental engine part number IO470E18B, serial number 088783 in the aircraft a Cessna 210, serial number 21057751 In Accordance With Cessna's and TCM's maintenance manuals. d) Installed an overhauled vacuum pump part number 3P194F, serial number 33015. e) Installed an overhauled propeller governor part number 210345B, serial number 570446.							
-----Continue-----							
f) Installed all new engine fluid lines manufactured by Eastern Aero Supply of New Jersey under work order number 18346. g) Installed the original hydraulic pump. h) Installed the propeller part number D2A3YC58-0 / S9LAT-8, serial number 962173. Prior to installation the propeller was sent to New England Propeller for a flush service. i) Installed the original generator utilizing a new drive belt part number 539547-31.19. j) Re-installed all original Electronics' International EGT / CHT probes and associated wiring harnesses. Removed and replaced two EGT probes with new probes part number P-110 in cylinders number #2 and #1. k) Installed new hoses on the Air Wolf remote oil system including new O-rings and packings on the adapter.							
3) Serviced the engine with 12 quarts of Aero Shell 100 mineral oil. 4) Spun aircraft over to obtain oil pressure. 5) Installed all spark plugs and performed an operational test. 6) Performed minor adjustments to the idle and related settings per TCM's maintenance manuals. 7) Performed an operational test and all systems normal with no leaks observed at this time.							
END							
This aircraft was inspected and/or repaired in accordance with the manufactures 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.3129 and a copy has been provided to the owner / operator.							
Eric J. Steigelman A&P 10582467				BY:			
Mark Maljanian A&P 33545223				BY:			

Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.

Brought F **Twin City Airmotive (FIT) Fitchburg, Ma 01420 978-342-8700 tel. Twincity98@MSN.com**

11-15-2005 :Hobbs 3427.66 :Tach N 9451X **Engine Annual**

Performed the following annual inspection utilizing the manufactures annual inspection guide: **Serial # 210-57751**

Compression test: #1 79/80, #2 78/80, #3 78/80, #4 79/80, #5 78/80, #6 78/80

- 1) Adjusted the un-metered fuel pressure setting IAW SB 97-3A and TCM's maintenance manuals.
- 2) Generator noted not to be going fully on line. Removed the unit and sent out for repair via Quality Aircraft (refer to attached yellow tag for details). Inspected all associated wiring with no defects noted. Re-installed the unit with no defects noted.
- 3) Repositioned two induction clamps via cylinder #5. Installed ram induction clamps on the forward position and installed new hose clamps on the rear position.
- 4) Installed heat shield on the engine mount and intake tube hoses as needed.
- 5) Replaced the magneto P-leads from the ignition switch to engine. Spliced new P-leads wires utilizing 18-gauge wire TEFZEL. Operational test good at this time noted.
- 6) Removed all spark plugs, cleaned, inspected, set gaps, tested and re-installed utilizing new M674 gaskets. Cleaned all ignition leads with solvent.
- 7) Checked the ignition to magneto timing. Timing was found to be within the manufactures specs.


-----Continue-----

- 8) Re-torque all induction, exhaust and rocker box hardware as required.
- 9) Washed the engine and all associated components. Performed an operational check with no leaks or discrepancies noted.

-----END-----

This aircraft was inspected and/or repaired in accordance with the manufactures 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. 3284 and a copy has been provided to the owner / operator.

I certify that this Engine has been inspected in accordance with an Annual Inspection and WAS DETERMINED TO BE IN AIRWORTHY CONDITION

Eric J. Steigelman A&P 10582467 I.A. by: 

Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.

B **Twin City Airmotive (FIT) Fitchburg, MA 01420 tel. 978-342-8700 Twincity98@MSN.com**

Date: 03/01/07 :Hobbs 3436.31 :Tach N 9451X **Engine Annual**

Compression Test X/80 #1: 78 #2: 78 #3: 78 #4: 77 #5: 77 #6: 78

ETT: 8.65 SMOH: 8.65 **Airframe Serial # 21057751**

Performed the following annual utilizing the manufactures annual inspection guide:

1. Inspected and serviced engine in accordance with Cessna annual inspection report.
2. Performed engine compression check with the following results: #1 78/80, #2 78/80, #3 78/80, #4 77/80, #5 77/80, #6 78/80.
3. Changed oil and installed new filter, P/N CH48108-1, torque to manufacturer's specs. Safety wired. No sample was taken at this time due to the use of type M oil. Serviced engine with 11 quarts of Phillips 20W-50 type M oil.
4. Removed all spark plugs. Inspected, cleaned, gapped and tested. Installed plugs utilizing new M674 gaskets torque to TCM's specs.
5. 4. Checked mag to engine timing. Both mags were found to be within spec.
6. Removed and cleaned engine fuel screens. Reinstalled screens using new gasket.
7. Removed six (6) TCM fuel injector nozzles P/N 627335D12-C and installed General aviation modifications, Inc GAMIjectors Kit GAD12C S/N 15967. Work was done in accordance with STC# SE09217SC PMA# PQ821SW and installation instructions IP-96-001 (Rev 004) Dated September 25, 1996. There is no change in weight and balance.
8. Instructions for continued airworthiness: GAMI recommends removal and cleaning of the nozzles at normal intervals of 100-200 hours. Nozzles may be soaked in an appropriate solvent such as gunk carburetor cleaner or Hoppe's #9 gun solvent. Followed by blowing off with an air nozzle. A small hole should be visually clear through the nozzle. CAUTION: Do not attempt to insert drill, wire or other article into the nozzle in an attempt to clean the orifices. In the event that the nozzle becomes clogged and requires cleaning and recalibration, it may be returned to GAMI for service.
9. Checked torque of all rocker box covers IAW TCM's spec.
10. Removed and installed new BA2305 Air filter element.

-----Continue-----

11. Installed new oil quick drain. Installed IEa S6250 quick drain valve.
12. Washed engine run up aircraft. Leak checked none found at this time.

-----END-----

This aircraft was inspected and/or repaired in accordance with the manufactures 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. 3717 and a copy has been provided to the owner/operator.

I certify that this Engine has been inspected in accordance with an Annual Inspection and WAS DETERMINED TO BE IN AIRWORTHY CONDITION

Eric J. Steigelman A&P 10582467 I.A. by: 

Twin City Airmotive Inc (KFIT) Fitchburg, MA 01420 tel: 978-342-8700 twincity98@verizon.net

Date: 7/9/08 Hobbs: Tach: 3447.1 N 9451X **Engine Annual**

Compression Test X/80 #1: 78 #2: 78 #3: 75 #4: 78 #5: 78 #6:

Engine SMOH: 17.73 **Airframe Serial #: 210057751**

Performed the following annual utilizing the manufacturer's annual inspection guide:

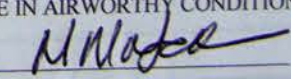
1. Performed compression test with the following results: #1- 78/80, #2- 78/80, #3- 75/80, #4- 78/80, #5- 78/80.
2. Dressed and painted prop.
3. Washed and cleaned engine as required.
4. Remove and replace engine air filter with new P/N BA2305 element.
5. Adjusted alternator belt as required.
6. Remove and replace starter boot missing on (+) lead with new.
7. #34 thru bolt nut cracked on #1 cylinder. Removed baffling to gain access. Installed new nut P/N 652541. Torqued to 650 in/lb per con. maintenance manual.
8. Per McCauley maintenance manual, prop has exceeded OH times. Has been repaired/flushed on 3/16/05. Suggested OH at next annual.
9. Changed oil and installed new filter P/N CH48108-1.
10. Washed and cleaned engine.

-----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. 4146 and a copy has been provided to the owner/operator.

-----END-----

I certify that this Engine has been inspected in accordance with an Annual Inspection and WAS DETERMINED TO BE IN AIRWORTHY CONDITION

Mark Maljanian A&P 33545223 I.A. by: 

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record							
	Hrs.	Min.	Hrs.	Min.	Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins							

Brought Twin City Airmotive Inc (KFIT) Fitchburg, MA 01420 tel: 978-342-8700 twincity98@verizon.net												
Date: 11/16/09	Hobbs:		Tach: 3548.10		N 9451X		Engine Annual					
Compression Test X/80	#1: 75	#2: 76	#3: 76	#4: 72	#5: 77	#6: 75						
Engine SMOH: 118.73							Airframe Serial #: 210-57751					

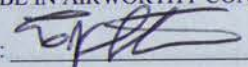
Performed the following annual utilizing the manufacturer's annual inspection guide:

1. Performed compression check on engine with the following results: #1- 75/80, #2- 76/80, #3- 76/80, #4- 72/80, #5- 77/80, #6- 75/80.
2. Drained oil. Removed filter and cut open to check for metal. None found. Installed new filter P/N CH48108-1. Oil sample taken for analysis. Serviced engine with 12 Qts of 15W50 Aeroshell oil. Ran up engine and leak checked. None found at this time.
3. Removed and replaced cylinder #6 EGT probe with new P/N P-110.
4. Removed and cleaned throttle body inlet screen. Removed and replaced gasket with new P/N 649983. Reinstalled inlet screen.
5. Retorqued all induction, exhaust and rocker box cover hardware.
6. Removed and replaced fuel injector nozzles on Cyl #1, #2, #6 with new. Installed per instructions. Cleaned other nozzles.
7. Removed all spark plugs. Cleaned, inspected, set gaps, tested and reinstalled with new gaskets P/N M674. Checked mags to engine timing and found within spec.
8. Removed safety wire from alternator adjuster rod inboard bolt. Retightened bolt.
9. Removed and replaced oil temp bulb adapter with new gasket P/N MS35769-11.
10. Installed new bracket air filter kit with new P/N BA2110.
11. Washed and cleaned engine.
12. C/W Airworthiness Directive research to 2009/22 biweekly issuance.

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. 4675 and a copy has been provided to the owner/operator.

I certify that this Engine has been inspected in accordance with an Annual Inspection and WAS DETERMINED TO BE IN AIRWORTHY CONDITION

Eric J. Steigelman A&P 10582467 I.A. by: 

Twin City Airmotive Inc (KFIT) Fitchburg, MA 01420 tel: 978-342-8700 twincity98@verizon.net

Date: 2/1/11	Hobbs:		Tach: 3601		N 9451X		Engine Annual					
Compression Test X/80	#1: 74	#2: 74	#3: 74	#4: 70	#5: 72	#6: 72						
Engine SMOH: 175.63							Airframe Serial #: 21057751					

Performed the following annual utilizing the manufacturer's annual inspection guide:

1. Performed compression check on engine with the following results: #1- 74/80, #2- 74/80, #3- 74/80, #4- 70/80, #5- 72/80, #6- 72/80.
2. Drained oil and removed filter to cut open and inspect for discrepancies - none found. Installed new filter P/N CH48108-1. Oil sample was taken for analysis. Serviced engine with 11 Qts of 15W50 Aeroshell oil. Ran up engine and leak checked - none found at this time.
3. Retorqued all induction, exhaust and rocker box cover hardware.
4. Removed, cleaned, inspected and reinstalled fuel servo inlet screen with new gasket.
5. Removed, cleaned, and reinstalled fuel injectors and nozzles.
6. Removed all spark plugs. Cleaned, inspected, set gaps, tested and reinstalled with new gaskets P/N M674.
7. Cleaned all ignition leads with solvent.
8. Dressed and painted back of propeller.
9. Repositioned inter-cylinder baffle between cylinders 2/4, 1/3 and 3/5.
10. Removed and cleaned air/oil separator and reinstalled.
11. Removed exhaust clamps. Inspected, cleaned and reinstalled with new hardware.
12. Secured P-leads and fuel flow wiring with (2) new adel clamps P/N MS21919WDG-8.
13. Retorqued and safetied cylinder #3 EGT probe.
14. Removed propeller and propeller bulkhead. Repaired propeller bulkhead as needed. Replaced hardware with new. Reinstalled propeller and bulkhead.
15. Resecured oil pressure line.
16. Removed fuel strainer, cleaned, inspected and reinstalled.
17. Installed missing screws in muffler shrouds as needed.

Continue

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record							
	Hrs.	Min.	Hrs.	Min.	Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins							

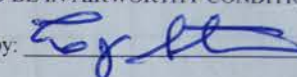
Brought												
18. Fabricated baffle tab at and behind oil cooler.												
19. Removed and replaced alt aft induction hose with Scat 12.												
20. Repaired air box at alt air opening with doubles and solid rivets.												
21. Removed and replaced alternator belt with new P/N S1597-1-30.8.												
22. Washed and cleaned engine.												
23. C/W Airworthiness Directive research to 2011/2 biweekly issuance.												

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. 5144 and a copy has been provided to the owner/operator.

END

I certify that this Engine has been inspected in accordance with an Annual Inspection and WAS DETERMINED TO BE IN AIRWORTHY CONDITION

Eric J. Steigelman A&P 10582467 I.A. by: 

Twin City Airmotive Inc (KFIT) Fitchburg, MA 01420 tel: 978-342-8700 twincity98@verizon.net

Date: 12/3/12	Hobbs:		Tach: 3675.16		N 9451X		Engine Annual					
Compression Test X/80	#1: 72	#2: 76	#3: 73	#4: 74	#5: 74	#6: 74						
Engine SMOH: 249.79							Airframe Serial #: 21057751					


Performed the following annual utilizing the manufacturer's annual inspection guide:

1. Performed compression check on engine with the following results: #1- 72/80, #2- 76/80, #3- 73/80, #4- 74/80, #5- 74/80, #6- 74/80.
2. Removed, cleaned, inspected and reinstalled fuel servo inlet screen with new gasket.
3. Removed, cleaned and reinstalled fuel injector nozzles.
4. Retorqued all induction, exhaust and rocker box cover hardware.
5. Removed all spark plugs. Cleaned, inspected, set gaps, tested and reinstalled with new gaskets P/N M674.
6. Removed and cleaned air/oil separator and reinstalled.
7. Cleaned all ignition leads with solvent.
8. Dressed and painted back of propeller.
9. Removed fuel strainer, cleaned, inspected and reinstalled.
10. Adjusted alternator belt tension as required.
11. Cleaned and retorqued oil cooler. Run up and rechecked with no discrepancies noted.
12. Washed and cleaned engine.
13. C/W Airworthiness Directive research to 2012/23 biweekly issuance.

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. 5637 and a copy has been provided to the owner/operator.

I certify that this Engine has been inspected in accordance with an Annual Inspection and WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

Eric J. Steigelman A&P 10582467 I.A. BY: 

Associated Aviation, Inc.

Tacoma Narrows Airport
Gig Harbor WA. 98335

5/20/13
N4951X
Cessna 210A S/N 21058255
Tach Time 3720.0

253-853-7167
Engine Log Entry
WO# 4877

* Oil Changed, oil filter inspected and replaced P/N CH48108-1. Serviced with Aeroshell 15W50 Type AD oil. Test run and leak inspect performed.

I Certify that the Aircraft or Component described above has been repaired and inspected in accordance with Industry Standard Practices and is satisfactory for return to service with respect to the work performed only.

BEN A OLSON AP2219241 1A

For Associated Aviation WO# 4877

5/20/13

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 →

Twin City Airmotive Inc (KFIT) Fitchburg, MA 01420 tel: 978-342-8700 twincity98@verizon.net

Date: 7/11/13 Hobbs: Tach: 3774.18 N 9451X Engine Repairs

Compression Test X/80 #1: #2: #3: #4: #5: #6: Airframe Serial #: 21057751

Engine SMOH:

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. Oil sample was taken for analysis. Serviced engine with 11 Qts of 15W50 Aeroshell oil. Ran up aircraft and checked for leaks - none found at this time.
2. Drilled old latch on oil door. Installed new latch P/N S1188-1. Ops check good.

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. 6162 and a copy has been provided to the owner/operator.

Mark Maljanian A&P 33545223 By: 

Twin City Airmotive Inc (KFIT) Fitchburg, MA 01420 tel: 978-342-8700 twincity98@verizon.net

Date: 11/3/14 Hobbs: Tach: 3778.85 N 9451X Engine Annual

Compression Test X/80 #1: 74 #2: 73 #3: 72 #4: 73 #5: 76 #6: 73

Engine SMOH: 353.48 Airframe Serial #: 21057751

Performed the following annual inspection utilizing the manufacturer's annual inspection guide:

1. Performed compression check on engine with the following results: #1- 74/80, #2- 73/80, #3- 72/80, #4- 73/80, #5- 76/80, #6- 73/80.
2. Drained oil and removed filter to cut open and inspect for discrepancies - none found. Installed new filter P/N CH48108-1. Oil sample was taken for analysis. Serviced engine with 11 Qts of 15W50 Aeroshell oil. Ran up engine and leak checked - none found at this time.
3. Removed, cleaned, inspected and reinstalled fuel strainer screen with serviceable gaskets. Removed and cleaned throttle body screen and reinstalled with new gasket P/N 649983. Safetied.
4. Removed, cleaned and reinstalled fuel injectors.
5. Retorqued all induction, exhaust and rocker box cover hardware.
6. Removed and replaced spark plugs with (12) new P/N RHB32E.
7. Removed and cleaned air/oil separator and reinstalled.
8. Cleaned all ignition leads with solvent.
9. Dressed propeller blades. Sanded and painted rear face of prop blades.
10. Adjusted alternator belt tension as required. Torqued and safetied bolt.
11. Boroscoped cylinder #5. No defects noted on intake or exhaust valve. Removed rocker box cover. Staked intake valve no longer leaking at intake valve comp 76/80.
12. Lubricated plug on cylinder #3 and lead. Applied heat with heat gun and freed B-nut.
13. Removed and replaced engine air filter element with new P/N BA2305.
14. Disassembled mixture control bellcranks. Inspected and found ok for service.
15. Trimmed heat muff to alt air intake seat hose ends and reinstalled hose.
16. Removed R/H muffler exhaust stack and inspected. Removed mufflers and inspected fire wall and found repair needed.

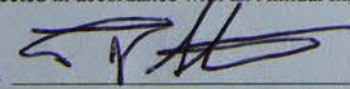
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17. Removed and replaced L/H muffler exhaust clamps with (4) new P/N A0750161-24 and (4) P/N A0750161-22. Installed using new hardware.
18. Removed and replaced fwd engine shock mounts with new P/N J-6545-1 and support spring P/N 1250125-2. Torqued bolts to spec at 500in lbs. Replaced lock tabs with new P/N MC0851559-1.
19. Fabricated new exhaust hangers from aluminum extrusion. Installed on fire wall using new bolts P/N AN3-5A. Part is no longer made.
20. Removed and replaced CHT probe cylinder #3 with new probe P/N P-110. Replaced connectors on harness for CHT cylinder #3 and EGT cylinder #3. Ops check good at this time.
21. Removed probe and checked EGT cylinder #2. Inspected with no discrepancies noted at this time. Cleaned connector ends.
22. Washed and cleaned engine.
23. C/W Airworthiness Directive research to 2014/21 biweekly issuance.

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. 6394 and a copy has been provided to the owner/operator.

I certify that this Engine has been inspected in accordance with an Annual Inspection and WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

Eric J. Steigelman A&P 10582467 IA 

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.	

Twin City Airmotive Inc (KFIT) Fitchburg, MA 01420 tel: 978-342-8700 twincity98@verizon.net

Date: 5/24/16 Hobbs: Tach: 3780.99 N 9451X Engine Annual

Compression Test X/80 #1: 78 #2: 72 #3: 73 #4: 78 #5: 78 #6: 72

Engine SMOH: 355.62 Airframe Serial #: 21057751

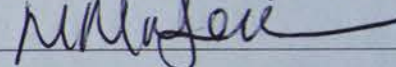
Performed the following annual inspection utilizing the manufacturer's annual inspection guide:

1. Performed compression check on engine with the following results: #1- 78/80, #2- 72/80, #3- 73/80, #4- 78/80, #5- 78/80, #6- 72/80.
2. Drained oil and removed filter to cut open and inspect for contaminants - none found. Installed new filter P/N CH48108-1. Oil sample was taken for analysis. Serviced engine with 11 Qts of 15W50 Aeroshell oil. Ran up engine and leak checked - none found at this time.
3. Removed all spark plugs. Cleaned, inspected, set gaps, tested and reinstalled with new gaskets.
4. Retorqued all induction, exhaust and rocker box cover hardware as required.
5. Removed all fuel injectors. Cleaned and reinstalled.
6. Removed, cleaned, inspected and reinstalled fuel strainer screen with new gaskets. Removed and cleaned throttle body screen and reinstalled with new gasket P/N 649983. Safetied.
7. Removed and cleaned air/oil separator and reinstalled.
8. Cleaned all ignition leads with solvent.
9. Dressed and painted back of propeller.
10. Adjusted alternator belt tension as required.
11. Removed and replaced engine air filter with new P/N BA2305.
12. Washed and cleaned engine.
13. C/W Airworthiness Directive research to 2016/10 biweekly issuance.

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. 7555 and a copy has been provided to the owner/operator.

I certify that this Engine has been inspected in accordance with an Annual Inspection and WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

Mark Maljanian A&P 33545223 IA 

Reg: N9451X

Make: Continental

Model: IO470-E18

Ser. No. 088783

ENGINE LOG
Southern Cal Aircraft

1880 Joe Crosson Drive

El Cajon, Ca. 92020

619-448-5010

Date: 10-01-2017

Tach: 3805.98


TSMOH: 380.61

Hobbs: None

I certify that this Engine has been inspected in accordance with 100 Hr/Annual Inspection IAW Appendix "D" of Part 43 procedure and determined airworthy this date.

Oil changed & filter (CH38108-1) old oil filter was cut open for inspection, no metal noted. Cleaned, gapped & tested all spark plugs and installed with new copper gaskets (MS17840-1). Replaced engine air filter (BA2305). Installed over flow case drain line on engine driven fuel pump. Removed, cleaned, inspected all the fuel injector nozzles, installed IAW TCM Ovhl. Manual and torqued same. Ran engine charging system was good and mag check good. Engine was serviced wit AeroShell 15/50, engine was solvent washed and run for leaks, none noted. AD 2016-16-12 ECI Class 71 or Class 76 Cylinders, N/A By insp. No ECI Cyl. Installed. Nothing Follows

Compression Test: 1) 73/80 2) 71/80 3) 72/80 4) 71/80 5) 74/80 6) 70/80
Except as stated above, no other work, inspection, corrective action or determination of airworthiness was made at this time.

Edward Q Hazlewood
A&P 1655569
Insp. Auth. 

Date: 10-01-2017

Reg: N9451X
Make: Continental
Model: IO470-E18
Ser. No. 088783

ENGINE LOG
Southern Cal Aircraft
1880 Joe Crosson Drive
El Cajon, Ca. 92020
619-448-5010

Date: 03-01-2020
Tach: 3805.98
TSMOH : 407.89
Hobbs: None

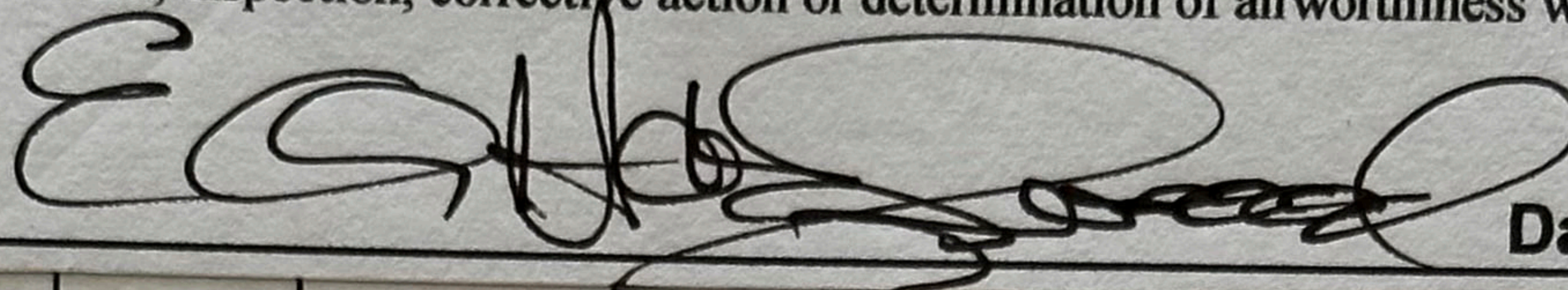
I certify that this Engine has been inspected in accordance with 100 Hr. / Annual Inspection IAW Appendix "D" of Part 43 procedure and determined airworthy this date.

Oil changed & filter (CH38108-1) old oil filter was cut open for inspection, no metal noted. Cleaned, gapped & tested all spark plugs and installed with new copper gaskets (MS17840-1). Replaced engine air filter (BA2305). Removed, cleaned, inspected all the fuel injector nozzles, installed IAW TCM Ovhl. Manual and torqued same. Ran engine charging system was good and mag check good. Engine was serviced wit AeroShell 15/50, engine was solvent washed and run for leaks, none noted.

Compression Test: 1) 72/80 2) 74/80 3) 72/80 4) 76/80 5) 76/80 6) 72/80

Except as stated above, no other work, inspection, corrective action or determination of airworthiness was made at this time.

Edward Q Hazlewood
A&P 1655569
Insp. Auth.



Date: 03-01-2020

Reg: N9451X
Make: Continental
Model: IO470-E18
Ser. No. 088783

ENGINE LOG
Southern Cal Aircraft
1880 Joe Crosson Drive
El Cajon, Ca. 92020
619-448-5010

Date: 06-01-2023
Tach: 3805.98
TSMOH : 442.37
Hobbs: None

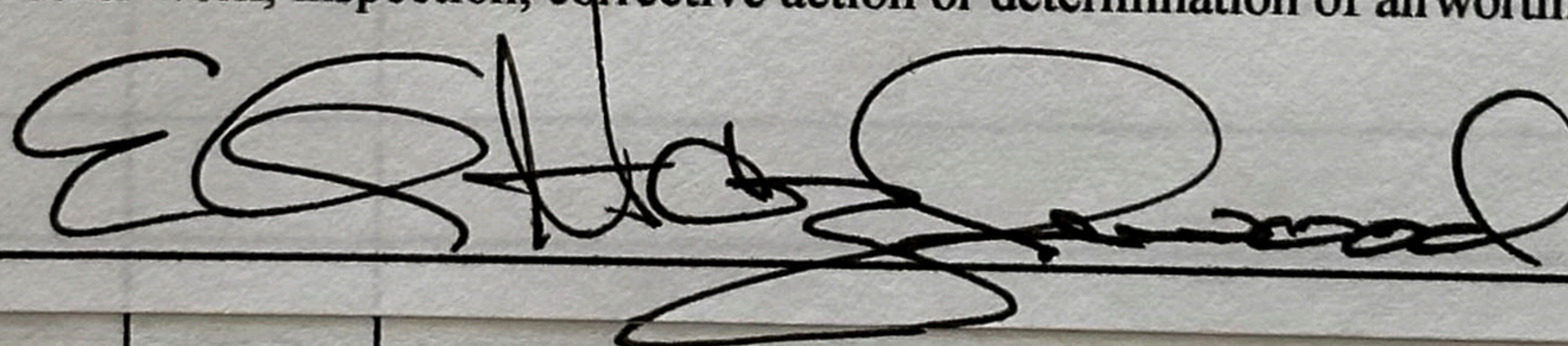
I certify that this Engine has been inspected in accordance with 100 Hr. / Annual Inspection IAW Appendix "D" of Part 43 procedure and determined airworthy this date.

Oil & oil filter changed. (CH38108-1) old oil filter was cut open for inspection, no metal noted. Cleaned, gapped & tested all spark plugs and installed with new copper gaskets (MS17840-1). Replaced engine air filter (BA2305). Removed, cleaned, inspected all the fuel injector nozzles, installed IAW TCM Ovhl. Manual and torqued same. Ran engine charging system was good and mag check good. Engine was serviced wit AeroShell 15/50, engine was solvent washed and run for leaks, none noted.

Compression Test: 1) 12/80 2) 72/80 3) 70/80 4) 71/80 5) 74/80 6) 70/80

Except as stated above, no other work, inspection, corrective action or determination of airworthiness was made at this time.

Edward Q Hazlewood
A&P 1655569
Insp. Auth.



Date: 06-01-2023

[illegible]

THE OIL PRESSURE ON THIS ENGINE WAS ADJUSTED DURING THE ENGINE ACCEPTANCE TEST AT THE FACTORY. ONLY MINOR ADJUSTMENTS MAY BE NECESSARY TO ASSURE THE PROPER INDICATION ON THE COCKPIT GAUGE.

FACTORY SETTINGS:

FACTORY SETTINGS:
RPM 2468 OIL TEMP 201 OIL PRESSURE 46.0
OIL PRESSURE PICK UP POINT: MAIN OIL GALLERY
BETWEEN #2 AND #4 CYLINDERS

655305

Standard Acceptance Test:

Date of Completion 3-22-05 Test Operator _____



Teledyne Continental Motors, Inc.
A Teledyne Technologies Company

Form No 98344

Hidden Damage Inspect. (if applicable)

Repair _____ Overhaul PKC Exchange PKC Test PKC

Run In (if required).

Final Test / Inspection

Maintenance Release Issue

Inspector's Signature M. J. Hilder

Inspection Notes & Parts List

PESCO 317194's

JAN 1951

Ship Via

Freight

Labor

Parts

Total

Revised 2/4/05

1. Approving National Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: QAA# <u>26375</u>	
4. Organization Name and Address: Quality Aircraft Accessories Inc. (QYIR334Y) Phone: 1-877-833-6948 5746 E. Apache, Bldg. A Tulsa, OK 74115 Fax: 918-835-6948		5. Work Order/Invoice Number: INV # <u>30817</u>			
6. Item	7. Description	8. Part/Number	9. Eligibility*	10. Qty	11. Serial/Batch Number
1	VACUUM PUMP	3P194F	(VARIOUS)	1	33015
13. Remarks:		12. Status/Work <u>OVERHAUL (EXCHANGE)</u>			
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13					
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature: <u>Justin B. Hicks</u>	
17. Name (Typed or Printed):		18. Date (m/d/y):		21. Approval/Certificate No.: QYIR334Y	
				23. Date (m/d/y): 3-16-05	

See Attached Work Order Summary for details. (2) pages

19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13

*Installer must cross check eligibility with applicable technical data.

FAA Form 8130-3 (9-03)

CRAFT INC.

PO# _____

WO# 26375

e 3-16-05

Mechanic Initial

PKC

PKC

PKC

PKC

PKC

PKC

PKC

PKC

Preliminary Inspection _____

Disassembly _____

Clean _____

Inspect _____

Hidden Damage Inspect. (if applicable) _____

Repair _____ Overhaul PKC Exchange PKC Test PKC

Run In (if required) _____

Final Test / Inspection _____

Maintenance Release Issue _____

Inspector's Signature Justin B. Hicks

Inspection Notes & Parts List

PESCO 3P194F JAN1957

Ship Via _____

Freight _____

Labor _____

Parts _____

Total _____

TELEDYNE CONTINENTAL MOTORS

THE OIL PRESSURE ON THIS ENGINE WAS ADJUSTED DURING THE ENGINE ACCEPTANCE TEST AT THE FACTORY. ONLY MINOR ADJUSTMENTS MAY BE NECESSARY TO ASSURE THE PROPER INDICATION ON THE COCKPIT GAUGE.

FACTORY SETTINGS:

RPM 2468 OIL TEMP 201 OIL PRESSURE 46.0
OIL PRESSURE PICK UP POINT: MAIN OIL GALLERY BETWEEN #2 AND #4 CYLINDERS

655305

Standard Acceptance Test:

Date of Completion 3-22-05 Test Operator _____



Teledyne Continental Motors, Inc.
A Teledyne Technologies Company

Form No 98344



QUALITY AIRCRAFT ACCESSORIES, INC.

FAA Approved Repair Station # QYIR334Y
Component Repair Traveler

Customer Name TWIN CITY AIRMOTIVE

PO# _____

Unit Name VACUUM PUMP

WO# 26375

Mfg. Name PESCO

Date 3-16-05

Part No. 32194F

Serial No. 33015

Mechanic Initial

Preliminary Inspection _____

PKC

Disassembly _____

PKC

Clean _____

PKC

Inspect _____

PKC

Hidden Damage Inspect. (if applicable) _____

PKC

Repair _____ Overhaul PKC Exchange PKC

Test PKC

Run In (if required) _____

PKC

Final Test / Inspection _____

PKC

Maintenance Release Issue _____

Inspector's Signature Mike J. Hilder

Inspection Notes & Parts List

PESCO 32194F

JAN 1957

Ship Via _____

Freight _____

Labor _____

Parts _____

Total _____

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 R-10470 E18B

Engine Serial Number 088783

Testing Completed

Standard Acceptance Test:

Date of Completion 3-22-05 Test Operator _____



Teledyne Continental Motors, Inc.
A Teledyne Technologies Company

Form No 98344



Teledyne Continental Motors, Inc.

P.O. Box 90 Mobile AL 36601 • 334-438-3411



GAMA

Member Of GAMA
General Aviation Manufacturing Association

FORM No. ELB-01
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MODEL IO-470 SERIES

CONTINENTAL® AIRCRAFT ENGINE

OPERATORS MANUAL



CONTINENTAL MOTORS

A Teledyne Technologies Company

FORM X30024
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FAA APPROVED
REVISED JUNE 1973
REFORMATTED SEPTEMBER 1998



Teledyne Continental Motors, Inc.
A Teledyne Technologies Company

Engine Component Information Sheet

Printed: 03/23/2005

Serial: 088783
Spec: I0470E18B
New/Rebuilt: (REBUILT)

Assembled: 03/21/2005
Shipped:
Packed: 03/23/2005

Customer Name: AIR POWER, INC
Shipping Address:

Component	Serial Number
CAMSHAFT	Z05AA467
CRANKSHAFT	N04IA167
CRANKCASE	R04EB325
CONNROD	AE04LB003
CONNROD	AE04LA977
CONNROD	AE04LB005
CONNROD	AE04LB047
CONNROD	AE04LB008
CONNROD	AE04LB002
L MAGNETO	E05BA097R
R MAGNETO	E05BA127R
FUEL PUMP	B05CA070R
MANIFOLD VALVE	C05CA054R
NOZZLE SIZE	12C
METERING UNIT	A05CA052R
STARTER	04 295 0078

Component	Serial Number
OIL COOLER	L04-2150-252
CYLINDER-1	AC04IB723
CYLINDER - 2	AC04IA853
CYLINDER - 3	AC04IC196
CYLINDER - 4	AC04IA849
CYLINDER - 5	AC04HA883
CYLINDER - 6	AC04IC246

Office DEPOT®

Pack Inspection Stamp



All of the information provided herein is subject to verification by the user. Teledyne Continental Motors, Inc. makes no representation or warranty concerning the accuracy or completeness of the information and assumes no responsibility with respect thereto.