

AIRCRAFT RECORD — GENERAL INFORMATION

MANUFACTURER ERCO - Ercope MODEL 415-C SERIAL 557

REGISTRATION NUMBER N87384 DATE MFG. _____

ENGINE(S) CURRENTLY INSTALLED.

MFG Continental MODEL C-85-12 SERIAL 67-1212

MFG _____ MODEL _____ SERIAL _____

PROPELLER(S) CURRENTLY INSTALLED.

MFG McCABLEY MODEL 1690 CM

HUB MODEL _____ SERIAL 77303 SERIAL _____

BLADE MODEL _____ SERIAL _____ SERIAL _____ SERIAL _____

BLADE MODEL _____ SERIAL _____ SERIAL _____ SERIAL _____

The Standard



AIRCRAFT LOG

AIRS AND ALTERATIONS
AND CERTIFICATE NUMBER OF
FOR OTHER SPECIFIC ENTRIES.)

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TOLS INC.
P3099/82

DATE RECORDING TOTAL DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS

19__

N87384

Date: June 5, 2008
Make: Engineering and Research
Model: 415C

Tach Time: 1022.57
TT: 1951.12
S/N: 557

Performed 100 hour inspection. Checked and lubricated controls. Serviced oleo-struts with DOT 3 and nitrogen. Serviced brake reservoir. Cleaned and repacked wheel bearings. Inspected E.L.T. in accordance with F.A.R. 91.207(d) and found satisfactory; inspect again June 2009 and replace battery by August 2009. Attitude indicator and Turn coordinator removed, repaired by Century Instruments Corp., and reinstalled (See Century 8130 dated 4/11/2008 and 8130 dated 4/15/2008). Removed sliding side windows and replaced with new in accordance with Skyport Services Sliding Window Assembly. Instructions and drawings dated 4-5-1999. Removed and replaced nose wheel tire with Desser AeroTrainer part no. AD4D4 6 ply tire. All applicable airworthiness directives, service letters and bulletins have been checked for compliance through 2008-10.

C/W AD 57-02-01	By inspection. Due again @ 1122.57
C/W AD 59-05-04	By inspection. Due again @ 1122.57
C/W AD 59-25-05	By inspection. Due again @ 1122.57
C/W AD 76-07-12	By inspection. Due again @ 1122.57
C/W AD 02-26-02	Accomplished June 2006. Due again June 2009.
C/W AD 03-21-01	By inspection. Due again June 2009.

I certify that this Aircraft has been inspected in accordance with a 100 hour inspection and was determined to be in airworthy condition.


John M. Stutzman A&P 9055002

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


John B. Spoor A&P 9055002

AND ALTERATIONS
(CERTIFICATE NUMBER OF
OTHER SPECIFIC ENTRIES.)

Time: 898.60
Time: 1827.15

M. Installed
it station 106"
Removed
Weight & Balance

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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N87384

Date: May 9, 2007
Make: Engineering and Research
Model: 415C

Tach Time: 930.90
TT: 1859.45
S/N: 557

Performed **100 hour** Inspection. Checked and lubricated controls. Serviced oleo-struts with DOT 3 and nitrogen. Serviced brake reservoir. Cleaned and repacked wheel bearings. Inspected E.L.T. in accordance with F.A.R. 91.207(d) and found satisfactory; inspect again **August 2007** and replace battery by **August 2007**. Clock removed, repaired by Century Instruments Corp., and reinstalled. Replaced radio microphone with new Telex microphone.
All applicable airworthiness directives, service letters and bulletins have been checked for compliance through 2007-08.

C/W AD 57-02-01 By inspection. Due again @ 1030.10
C/W AD 59-05-04 By inspection. Due again @ 1030.10
C/W AD 59-25-05 By inspection. Due again @ 1030.10
C/W AD 76-07-12 By inspection. Due again @ 1030.10
C/W AD 02-26-02 Accomplished June 2006. Due again June 2009.
C/W AD 03-21-01 By inspection. Due again May 2008.

I certify that this Aircraft has been inspected in accordance with a **100 hour** inspection and was determined to be in airworthy condition.


John M. Stutzman A&P

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


John B. Spoor A&P

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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N87384

Date: 8 Dec, 2006

Tach Time: 898.60
Total Time: 1827.15

Removed KX-170 Receiver. Removed KI-201 Indicator. Installed KLX135A GPS/COM. Installed KTX 76 Transponder. Installed Ameri-King AK350 Encoder. Replaced Nav antenna at station 106" with GPS antenna. Removed Delco -Remey Generator and installed Jasco Alternator. Removed generator regulator and installed alternator regulator in same place. See related 337's. Weight & Balance and Equipment List have been updated.



John M. Stutzman A&P

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT
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Date:
Make:
Model:

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AND CERTIFICATE NUMBER OF
OR OTHER SPECIFIC ENTRIES.)

TANK FOR
TOP REAR
LOT #355037 0406-
CHECKS OKAY.
BASE WITH
CHECKS OKAY.
5606 HYD. OIL.
12/182

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
<div style="text-align: center;"> J.A. AIR CENTER DuPage Airport • West Chicago, IL 60185 FAA Repair Station #NF2R029L AIRFRAME LOG ENTRY </div> <div style="display: flex; justify-content: space-between;"> <div> Description of work done: DATE <u>12/1/06</u> MODEL <u>KT-76A</u> S/N <u>2084</u> TRANSPONDER TESTED IN ACCORDANCE WITH PART 43. APPENDIX 'F' FOR COMPLIANCE WITH FAR 91.413 THIS DATE JOLIET AVIONICS, INC. FAA REPAIR STATION #NF2R029L CLASS III Signature <u>[Signature]</u> Inspector </div> <div> Type <u>415C</u> S/N <u>537</u> N# <u>87384</u> AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEM TESTED AND INSPECTED AS REQUIRED BY FAR 91.411 IN ACCORDANCE WITH FAR 43, APPENDIX 'E', PARAGRAPH (C). JOLIET AVIONICS, INC. FAA REPAIR STATION #NF2R029L CLASS III SIGNATURE <u>[Signature]</u> </div> </div> <div style="text-align: center; margin-top: 20px;"> MAINTENANCE RELEASE The aircraft, airframe, engine, appliance, or component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of the repair are on file at this repair station under WO <u>[Signature]</u> Date <u>12/1/06</u> Tach/Hobbs _____ Signature <u>[Signature]</u> Inspector (print) <u>Doug Mall</u> </div>				


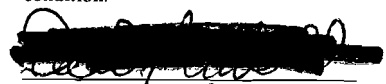
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The aircraft
Federal Av
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IS AND ALTERATIONS
 AND CERTIFICATE NUMBER OF
 OR OTHER SPECIFIC ENTRIES.)

829.73
 1758.28
 557

id nitrogen. Cleaned and
 aspect again June 2007 and
 e with AC 43.13 1B and 2A.
 action for flanged crankshaft
 l new brake master cylinder
 with new Gill GS35S
 by removing outer wing
 corrosion found. Next

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				All applicable airworthiness directives, service letters and bulletins have been checked for compliance through 06-10.
				C/W AD 46-23-03 verified. Complied with 9/15/1947
				C/W AD 46-38-02 verified by inspection.
				C/W AD 47-20-08 verified by inspection.
				C/W AD 47-20-09 verified during run up and after first flight. Due again @ 929.73hrs
				C/W AD 50-07-01 verified. trim tab mod kit previously installed.
				C/W AD 52-02-02 verified. Due again @ 929.73
				C/W AD 54-26-02 verified. Due again @ 929.73
				C/W AD 55-22-02 verified. All tanks have been replaced. Due again June 2007
				C/W AD 57-02-01 verified. Due again @ 929.73
				C/W AD 59-05-04 verified. Due again @ 929.73
				C/W AD 59-25-05 verified. Due again @ 929.73
				C/W AD 60-09-02 verified by inspection.
				C/W AD 67-06-03 verified. Rudder Bellcrank F52425 installed on 4/18/1969.
				C/W AD 02-16-04 verified. Support tubes installed June 2006. Univair Kit #SK76.
				C/W AD 02-26-02 verified. Inspected as per SB #31 rev 1 dated 6/14/02. Due again June 2009.
				C/W AD 03-21-01 verified. Due again June 2007.
				I certify that this Aircraft has been inspected in accordance with a 100 hour inspection and was determined to be in airworthy condition.
				 John M. Stutzman A&P
				I certify that this Aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.
				 David J. Albord

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N87384

Date: June 1, 2006
Make: Engineering and Research
Model: 415C

Tach Time: 829.73
TT: 1758.28
S/N: 557

DOT 3

Performed 100 hour inspection. Checked and lubricated controls. Serviced oleo-struts with mil-5606 and nitrogen. Cleaned and repacked wheel bearings. Inspected E.L.T. in accordance with F.A.R. 91.207(d) and found satisfactory; inspect again June 2007 and replace battery by August 2007. Repaired cracked nose bowl by stop drill and riveted patch in accordance with AC 43.13 1B and 2A. Removed propeller for engine overhaul and reinstalled per McCauley Corp. Met-L-Prop installation instruction for flanged crankshaft Drawing No. B-1161 dated 9/1998. Replaced elevator trim control with Univair trim control kit. Installed new brake master cylinder O-ring kit and master cylinder pressure hose. Serviced brake reservoir and tires. Replaced aircraft battery with new Gill GS35S battery. In accordance with AD 02-26-02, complied with Service Bulletin No. 31 Rev. 1 dated 6/14/2002 by removing outer wing panels. Inspected wing center section as per SB # 31 rev. 1 pg 5 method 3. Fuel tanks remained intact. No corrosion found. Next inspection due by June 2009. Installed Univair Service Kit #SK76 in accordance with AD 02-16-04.

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DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT
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David J. Albe

ENGINE RECORD — GENERAL INFORMATION

MANUFACTURER Continental MODEL 17 F

SERIAL 62-11111-1 TYPE CERTIFICATE A

THIS ENGINE IS CURRENTLY INSTALLED IN AIRCRAFT Erccupe, SN. 557, N87334

MINIMUM OCTANE FUEL _____ OIL GRADE SUMMER _____ WINTER _____

MAGNETO TIME _____ POINT SETTING _____ FIRING ORDER _____

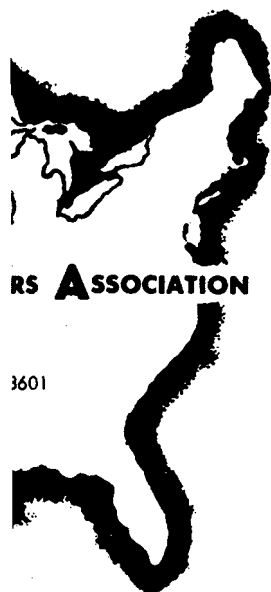
SPARK PLUG GAP _____

MFG. RECOMMENDED OVERHAUL AT _____ HOURS.

The Standard



ENGINE LOG

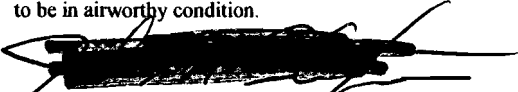


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DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
N87384				
Date: May 9, 2007		Tach Time: 930.90		
Make: Continental		TTE: 1732.40		
Model: C-85-12F		TSMOH: 101.17		
S/N: 65-6512				
<p>Performed 100 hour inspection. Compression read: 1/79, 2/78, 3/78, 4/78. Cleaned and gapped spark plugs. Checked and cleaned screens. Changed oil and filter. Replaced oil with Phillips 20w50 and installed new Champion oil filter CH48108-1. Checked mag timing. Checked and lubricated controls. Removed and replaced A/C fuel pump with new Tempest fuel pump AF40585 Ser. No. F002273. Engine washed, test run, and leak checked satisfactory.</p> <p>All applicable airworthiness directives and related factory publications have been checked for compliance through 2007-08.</p> <p>AD 81-07-06 N/A 2007 due to new fuel pump. No further action required.</p> <p>I certify this ENGINE has been inspected in accordance with a 100 hour inspection and was determined to be in airworthy condition.</p> <p> John M. Stutzman, A8</p>				

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DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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N87384

Date: June 1, 2006
Make: Continental
Model: C-85-12F
S/N: 65-6512

Tach Time: 829.73
TTE: 1631.23
TSMOH: 0.0

This engine was disassembled, cleaned, inspected, and reassembled with the necessary new parts in accordance with a major overhaul as per Continental's current overhaul manual Form X-30010. New tolerances and clearances were maintained throughout. Engine modified with Continental 0-200 flanged crankshaft (p/n 653012), pistons (p/n SA 530348), and connecting rods (p/n 530184-A2) in accordance with Donald H. Swords STC #SE02004 AT. See 337 dated 6/1/2006. Installed oil filter adapter mod in accordance with Floyd Jones STC #SE7562SW Rev. 4 dated 4/30/1992. See 337 dated 6/1/2006. All cleaning inspecting and reworking of internal steel was done by Aircraft Specialties Services, Inc of Tulsa OK. See release dated 11/16/2005. Crankcase cleaned and inspected by DivCo, Inc of Tulsa OK. See release dated 12/28/2005. Carburetor disassembled inspected and reassembled using new steel needle and seat, and gaskets. Engine filled with 4.5 qts Phillips 20w50 oil. Both magnetos inspected and reassembled with new points, condensers, distributor plates, and rotors. Reinstalled mags and checked mag timing; Rt 28 deg BTC, Lt 30 deg BTC.

The following is a list of new parts installed.

- | | |
|---|---------------------------------------|
| 4 - Titan Cylinder Valve assemblies; serial nos. 34564-14, 34564-19, 34883-18, 34883-21 | 2 - Aerolite Ignition Harness |
| 4 - 200 CermiNil Ring sets | 8 - Aerolite Spark Plugs; p/n UREM40E |
| 1 - Engine Mount hardware kit | 1 - MOH Gasket set |
| 4 - Valve Lifter Units; p/n 637269 | 6 - Propeller Bolts; p/n AN6H-32A |
| 1 - Bearing set; p/n 530058-A5 | 1 - Bearing set; p/n 633399 |
| 4 - Bearing sets; p/n 633398 | 8 - Bearing set; p/n SA639640 |
| 4 - Silicon gaskets; p/n RG-530162 | |
| 1 - Thrust washer set; p/n 35552 | |

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DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT
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All applicable a

AD 4
AD 4
AD 8
AD 9
AD 9
AD 9
AD 9
AD 9
AD 6

This engine has
Instructions" SI

I certify this EN
to be in airworth

John M. Stutzman
John M. Stutzman

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

1. Removed original Continental crankshaft, pistons, and connecting rods in accordance with TCM C85 Overhaul Manual X-30010 dated January 1984.

2. Installed Continental Motors (TCM) flanged crankshaft, pistons, and connecting rods in accordance with Donald H. Swords STC # SE02004AT dated 3/28/2000 and TCM C85 overhaul manual X-30010 dated January 1984.

3. Attached supplemental data plate to crankcase adjacent to existing data plate on right top side of engine.

4. Instructions for Continued Airworthiness remain in accordance with TCM Overhaul Manual No. X-30010.

5. Weight and Balance is not effected by this modification.

----- **END** -----

Aircraft Weight and Balance Revision

Tail Number: N87384				Date: 11/21/2006	
Prepared by: John Stutzman				Work Order No:	
				Type Certificate A-718 Data No:	
Aircraft Make: ERCO	Model: 415C	Serial No: 557	Time: 898.60		
Registered Owner: Randall S. Hougham		Address: [REDACTED] Sandwich, IL 60548			
Maximum Weight 1260		CG Range FWD 25.2		AFT 25.8	
As Received; Date of Previous Weight and Balance: 6/1/2006		Useful Load: 433	EW: 827	EWCG: 26.74	Moment: 22117.65
Notes:					
			Weight	Arm	Moment
Removed KX-170 Transciever			-6.5	17	-110.50
Removed KI-201 Indicator			-2.25	19	-42.75
Installed KLX 135A GPS/COM			5.02	17.66	88.65
Installed KTX 76 Transponder			3.1	17.00	52.70
Installed Ameri-King AK350 Encoder			.4	1	0.40
Replaced Nav antenna at station 106" with GPS antenna. No change in W&B.			0.00	0.00	0.00
Removed 13amp Delco-Remey Generator			-10	-8	80.00
Installed 50amp Jasco Alternator			10.25	-7	-71.75
Replace gen regulator with alternator regulator. No change in W&B.			0.00	0.00	0.00
			0.00	0.00	0.00
<input checked="" type="checkbox"/> As Calculated	Moment 22114.40		New Empty Weight CG		New Useful Load
<input type="checkbox"/> As Weighed	Weight 827.02		26.74		432.98
			Signature [REDACTED]		
			Repair Agency or License No:		