

October 7, 2011
Engine Model IO-520-L, S/N -295500-R

Total Time-1698.1 ,T.S.O.-0.0. Engine given routine overhaul and test I.A.W. Continental (T.C.M.) overhaul manual X30039A. All applicable A.D.s checked thru Issue 2012-02. Complied with T.C.M. A.D.97-26-17 adm.39-10260 dated 1-23-98 by ultrasonic test of crankshaft I.A.W. T.C.M. MSB96-10A, ok... All other applicable A.D.s have been P/C/W. The following accessories supplied with engine: New T.C.M. Harness, 12ea. New RHB32S spark plug, AirNet overhauled Magneto S/N-F06JA073R (left), AirNet overhauled Magneto S/N-F05LA329R (right), T.C.M. rebuilt fuel system p/n R-649052A8 (throttle control s/n-A11KA059R, Fuel-pump s/n-B11LA072R and manifold valve s/n -C11LA075R). Airnet overhauled Starter S/N-D110153. For pertinent details of overhaul, reference W.O. # 01-I-89365 this agency. I certify that this engine is in an airworthy condition and approved for return to service. Crankshaft s/n - N07DA073.

AirNet Systems, Inc.
Columbus, Ohio
C.R.S. BSYR610C

William Kent Auth. Sig.

SERVICEABLE

AIRNET SYSTEMS, INC. - 7250 STAR CHECK DRIVE - COLUMBUS, OHIO 43217
FAA REPAIR STATION BSYR610C 1-800-999-1083

Part Name CONTINENTAL ENGINE Date 2-7-2012
Part Number IO-520-L W.O. No. 01-I-89365
Serial Number 295500-R N-Number _____
Customer Name FLIGHT EXPRESS TOTAL Hours 1698.1
Instructions: TIME SINCE OVERHAUL - 0.0 hrs..

Tested W. Kent Repaired _____
Overhauled W. Kent Removed Serviceable _____

Maint. Release: The aircraft and/or component identified herein was repaired and inspected in accordance with current FAA regulations and was found airworthy for return to service.

Details on file at this agency under w.o.# 01-I-89365 Signed: William Kent

ENGINE LO
150040

AirNet Systems Incorporated
PARTS USAGE LISTING REPORT

W.O. NUMBER CUST CODE CUSTOMER NAME

| Item Part Number | Description | A/C NUMBER A/C MODEL | |
|------------------|------------------------|----------------------|----------|
| | | Serial Number | Qty |
| 01-I-89365 | IO520L | TCM | |
| 530658 | BEARING | IO520L | 295500-R |
| 649134 | CRANKSHAFT | | 6.0 |
| SA-630826M010 | BEARING | S209662-1 | 1.0 |
| 10-349350-4 | MAGNETO, LEFT | | 12.0 |
| 10-349350-5 | MAGNETO, RIGHT | F06JA073R | 1.0 |
| 10-423684-1 | HARNES KIT | F05LA329R | 1.0 |
| 501867 | TAB, LOCK | | 1.0 |
| 502287-3 | SNAP RING | | 1.0 |
| 534685 | BALL BEARING | | 1.0 |
| 534715 | RING | | 1.0 |
| 630046 | PIN, PISTON | | 1.0 |
| 631928 | HOSE | | 6.0 |
| 639193 | BUSHING | | 1.0 |
| 641250 | SEAL | | 16.0 |
| 642917-1 | HOSE, INTAKE | | 1.0 |
| 643626-104 | PIN | | 10.0 |
| 643629 | PLATE | | 2.0 |
| 646275-1R | STARTER | D110153 | 16.0 |
| 646548A1 | GASKET SET | | 1.0 |
| 646591A3M010 | BEARING SET | | 1.0 |
| 649052A8R | FUEL SYSTEM | | 1.0 |
| 649981 | GASKET | | 1.0 |
| 652129 | BUSHING | | 12.0 |
| 652436-1 | CLAMP(USE THIS NUMBER) | | 6.0 |
| 652541 | NUT | | 12.0 |
| 653877 | LIFTER | | 6.0 |
| 653888 | LIFTER ASSY | | 6.0 |
| 654490 | ROD NUT | | 12.0 |
| 654589 | BOLT | | 4.0 |
| 654595 | OIL COOLER | G08-6624-182 | 1.0 |
| 655384-R | CAMSHAFT | S209650-1 | 1.0 |
| 655958 | BOLT | | 12.0 |
| 656990 | BOLT | | 6.0 |
| CH48108-1 | OIL FILTER | | 1.0 |
| CH48109-1 | OIL FILTER | | 4.0 |
| MS29513-010 | O-RING | | 2.0 |
| MS29513-016 | O-RING | | 2.0 |
| MS35756-8 | KEY, WOODRUFF | | 16.0 |
| QS200M36H | CLAMP | | 12.0 |
| RHB32S | PLUG | | 8.0 |
| SA-350998 | BUSHING, BLADE | | 16.0 |
| SA-629104 | RING, SNAP | | 2.0 |
| SA-629163-5 | CLAMP | | 2.0 |
| SA-632443A-4 | NUT | | 4.0 |
| SA-638172 | CUSHION, MAG | | 4.0 |
| SA-643626-101 | PIN | | 2.0 |
| SA-643626-103 | PIN | | 1.0 |
| X13041 | BEARING, BALL | | 1.0 |
| 539800 | SPRING | | 1.0 |
| 535823 | SEAL | | 2.0 |
| QS200M08H | CLAMP | 82352-16 | 1.0 |
| TIST71.4ACA | CYLINDER(ECI) STEEL | 82352-18 | 1.0 |
| TIST71.4ACA | CYLINDER(ECI) STEEL | 82352-20 | 1.0 |
| TIST71.4ACA | CYLINDER(ECI) STEEL | | |

DATE PREPARED: 02/06/12 14:57

AirNet Systems Incorporated
 PARTS USAGE LISTING REPORT

| Item Part Number | DESCRIPTION | A/C NUMBER | A/C MODEL |
|-------------------|---------------------|------------|-----------|
| 01-I-89365 | IO520L | TCM | |
| TIST71.4ACA | CYLINDER(ECI) STEEL | IO520L | 295500-R |
| TIST71.4ACA | CYLINDER(ECI) STEEL | 82352-24 | 1.0 |
| TIST71.4ACA | CYLINDER(ECI) STEEL | 76672-13 | 1.0 |
| | | 82178-29 | 1.0 |

FLIGHT EXPRESS, INC.
C210 ENGINE BUILD-UP/AND INSTALLATION LOG BOOK ENTRY

AIRCRAFT N: 59240 ACFT S/N 21060174 DATE: 02 1 09 12012
TACH: 5287.2 ACTT 13,330.0

PRELIMINARY:

- | | Designated
Inspector |
|--|-------------------------|
| 1 - Disconnect battery from A/C <u>fuel</u> Turn fuel selector to OFF <u>fuel</u> <small>(Note 2a thru 2f Yellow tag any accessory that are serviceable for future use or green tag for repair)</small> | <u>fuel</u> |
| 2a - Remove propeller: M/N <u>PHC-5378-1RF</u> S/N <u>EP 76448</u> TSO <u>886.3</u> | <u>fuel</u> |
| 2b - Remove old engine: M/N <u>T0520L47B</u> S/N <u>295367R</u> TSO _____ | <u>fuel</u> |
| 2c - Remove old prop. Gov: P/N <u>AT210488</u> S/N <u>11102869</u> TSO <u>417.8</u> | <u>fuel</u> |
| 2d - Remove old Vacuum pump: P/N <u>216CW</u> S/N <u>130036</u> TSO _____ | <u>fuel</u> |
| 2e - Remove old primary Alternator: P/N <u>L60-2</u> S/N <u>0981439</u> TSO _____ | <u>fuel</u> |
| 2f - Remove old stby Alternator: P/N <u>BC 425-1</u> S/N <u>013149</u> TSO _____ | <u>fuel</u> |
| 3 - Remove engine shock mounts <u>fuel</u> , Clean engine compartment <u>fuel</u> Inspect engine compartment, supports & firewall for cracks & loose rivets. <u>fuel</u> Inspect elec. wire harness for condition & security <u>fuel</u> (No butt splices) | <u>fuel</u> |
| 3a - Remove engine baffles (clean & repair as needed for later installation) <u>fuel</u> | <u>fuel</u> |
| ✓ 4 - Install engine shock mounts <u>fuel</u> | <u>fuel</u> |
| ✓ 5 - Remove bonding strap (Inspect strap for condition & corrosion) <u>fuel</u> | <u>fuel</u> |
| 6 - Clean & reinstall or replace bonding strap. Secure to R/H rear engine mount tower, Laying flat and forward, parallel to nose wheel well. <u>fuel</u> | <u>fuel</u> |
| 7 - Inspect vapor return check valve for condition, security & proper operation <u>fuel</u> <small>(Note: arrow points to fuel tank & hinge up)</small> | <u>fuel</u> |
| 8 - Replace vapor return hose from check valve to firewall <u>fuel</u> (AE7013354E0150) | <u>fuel</u> |
| 9 - Inspect fuel drain cable for operation and condition (housing and wire) <u>fuel</u> Measure fuel drain cable, must be at least 20-1/2" in length <u>fuel</u> (Replace if not proper length) Yes <u>fuel</u> No <u>fuel</u> <small>(Correct length of new cable housing is (20-1/2" from flange to end of cable housing) (Remove wire from housing before cutting housing)</small> | <u>fuel</u> |
| 10 - Remove air box & inspect condition <u>fuel</u> | <u>fuel</u> |
| ✓ 11 - Disassemble collector & muffler & inspect L/H <u>fuel</u> R/H <u>fuel</u> | <u>fuel</u> |
| Note: If replacing any control cable, enter on Aircraft Discrepancy sheet: | |
| 12 - Inspect propeller control cable <u>fuel</u> Replace (yes/no) <u>fuel</u> new bracket (yes/no) <u>fuel</u> | <u>fuel</u> |
| 13 - Inspect throttle control cable <u>fuel</u> Replace (yes/no) <u>fuel</u> | <u>fuel</u> |
| 14 - Inspect mixture control cable <u>fuel</u> Replace (yes/no) <u>fuel</u> (Check min. Travel of 3.1") | <u>fuel</u> |

AIRCRAFT # 59240

HOBBS 5287.2

Designated Inspector

18 - Route and secure ignition harness to baffles L/H DA R/H DA
(With screws or bolts, & nylon lock nuts)

19 - Install & clamp new vapor return hose (AE7013354E0290) to starter adapter with brackets (S2300-2). **Attach brackets to non-drilled bolts at starter adapter** DA
1st clamp, position bolt head (not nut) directly under vacuum pump position, clamp aft & down DA 2nd clamp, position hose on inboard side of bracket DA
(AN3-4A bolts & nuts)

20 - Install vacuum pump: P/N 216CW S/N 142648 TSO 422.1
(Fittings 1K 8-6-10 & 1K-6-10, 90°)
(If new Vacuum pump is installed - make out accessory removal and installation log sheet FX1006A and FX1006B and send to Aircraft Records and Parts Department).

Sign [Signature] A&P # 3443538 Date 02/09/12

20a - Install BC 425-1 stby Alternator: S/N 100053 TSO _____
(If new stby alternator is installed - make out accessory removal and installation log sheet FX1006A and FX1006B and send to Aircraft Records and Parts Department).

Sign [Signature] A&P # 3443538 Date 02/09/12

21 - Install scat 6 ducts: To Fuel Pump DA (12" long)
To Mixture Control Unit DA (15" long)

22 - Secure & connect engine fuel hose to flow divider (Hose 032503E0320F) DA
(AN3-4 bolt, WDG-8 clamp, AN3-10A bolt, & NAS43DD3-30 spacer)

L60-2 B & C Alternator installation instructions: See installation manual DA
Standard Alternator installation instructions: Install bottom bolt, do not torque, install belt & safety top attach bolt at arm. Belt tension is 3/8 deflection at the center of belt when applying 12 lbs of pressure. Torque bottom mounting bolt to 41 ft lbs DA

23 - Install alternator: belt, arm & drilled head bolt, Cessna P/N-MS20074-05-10,

ALT P/N L60-2 S/N 0741577 TSO 1162.1
(If new alternator is installed-make out accessory removal and installation log sheet FX 1006A and send to Aircraft Records and Parts Department.)

Sign [Signature] A&P # 3443538 Date 02/09/12

24 - Safety starter adapter bolts, & Alternator bracket bolt DA
(Top to Top, bottom to bottom at starter adapter)

25 - Fit & install air box (Use AN4-6A bolts with 1 washer ea., AN960-416) DA
Inspect air filter element housing gasket condition and install housing. DA
Drill a relief hole in top of air filter housing in area of nut plate for top baffle plate installation. DA Secure Airbox and filter assy. DA
(Airbox assy. must not be installed under stress)

26 - Install top engine breather pipe (1200106-108) and Inspect condition of grommet (MS35489-20) DA (Remove Starter if necessary)

AIRCRAFT N# 59240

HOBBS 5281.2

Designated Inspector

- 27 - Install 3 each baffles at oil cooler outboard and bottom. AA
Fig 85A (1255020-1), (1255026-3), (1255010-8) AA
- 28 - Install 3 each R/H Forward baffles at oil cooler, & seal (-1 & -2 with RTV) AA
Fig. 85A (1250134 - 2), (1255025-1), (0750152-3) AA
- 29 - Install manifold drain fittings 3 each (AN 816-4D) AA
- 30 - Install manifold pressure fitting 1 each (AN 816-3D) AA
- 31 - Remove balance tube, trim cylinder fins for governor clearance and install governor:
P/N AT210488 S/N 07401470 TSO 233.1 Install L/H forward baffle (1250966-1)
at mounting stud AA Diagonally torque nuts to 216-264" lbs AA
Reinstall balance tube to keep FOD out of intake system AA
(If new governor is installed - make out accessory removal and installation log sheet FX1006A
and FX1006B and send to Aircraft Records & Parts Department)
- Sign [Signature] A&P# 3443598 Date 02/09/12
- 32 - Connect fuel flow hose to flow divider route thru rear baffle AA
(AE3663819B0350, MS35489-14, WDG-8 clamp, AN3-10A, & NAS43DD3-30 spacer) AA
- 33 - Install CHT probe AA
(S2334-3) #3 cyl. Thru S/N-21062273 with or without kit SK182-104 installed
(S1372-3) #1 cyl. S/N range 21062274 - 21064063
Note: (S2334-3) #1 cyl. S/N range 21062274 - 21064063 with kit SK210-148B installed
Kit installation can be identified by a 3/16" wide green range marking AA
- 34 - Install oil temp probe. NOTE: Electrical oil temp sending unit identification:
(S2335-1), S/N-21059503-21062273, if kit SK182-110A has been installed) AA
(S1630-5), S/N-21062274-21064063) AA
(S2335-1), S/N-21062274-21064063, if kit SK210-148B has been installed) AA
(S2335-1), S/N-21064064-21064135) AA
(Kit installation can be identified by blue colored wire at probe and a 3/16 wide
green range marking) AA
Install support brackets, connect CHT lead AA
- 35 - Install new fuel supply hose to engine fuel pump AA
(p/n 111417-4S - 0120) AA
- 36 - Install exhaust collector and torque to (100" - 110" lbs) L/H AA R/H AA
Install heat deflectors (0750143-1) at intake hoses L/H AA R/H AA
Position hose clamps to prevent chaffing to engine mount heat shields when engine
is installed AA
- 37 - Install L/H forward baffle (1250958-4) AA
- 38 - Adjust brass elbow at MCU straight down for inlet fuel line AA (to prevent
engine fuel hose from chaffing on firewall) AA

AIRCRAFT N# 59240

HOBBS 281.2

ENGINE INSTALL: Fill out removal and installation log sheet FX1006A and send to Aircraft Records Department and copy to parts department

Designated Inspector

- [Handwritten initials: JTB]*
- 1 - Connect throttle/mixture mounting plate to engine & safety *[Handwritten initials: JTB]*
 - 2 - Connect & rig mix *[Handwritten initials: JTB]* Check for positive stop to stop *[Handwritten initials: JTB]*
 - 3 - Connect & rig throttle *[Handwritten initials: JTB]* Check for positive stop to stop *[Handwritten initials: JTB]*
 - 4 - Route fuel strainer drain cable fwd of bracket (S2300-2), between oil tank & oil pressure hose *[Handwritten initials: JTB]*
(Apply anti-chafe 193-3 hose 2" section of hose & spiral wrap at rear baffle location)
 - 4a - Route governor cable & oil temp probe if installed for later attachment *[Handwritten initials: JTB]*
 - 5 - Connect fuel hose to airframe *[Handwritten initials: JTB]*
 - 6 - Torque engine mount bolts (AN 7-40A) with heat deflectors and tab washers 300 TO 350" lbs & bend tabs *[Handwritten initials: JTB]*. (Reference: C210MM, section 12)
Sign *[Handwritten signature]* A&P# 344353 ✓ Date 03/13/12
 - 7 - Connect engine ground strap *[Handwritten initials: JTB]* Connect tach cable *[Handwritten initials: JTB]*
 - 8 - Install engine mount heat shields *[Handwritten initials: JTB]* (1250918-4, 4 each)
 - 9 - Connect new engine vapor return hose to check valve on firewall *[Handwritten initials: JTB]*
(AE7013354E0290)
 - 10 - Connect new oil press hose to fire wall, route oil hose **under** intake manifold *[Handwritten initials: JTB]*
(AE7013354E0380)
 - 11 - Install & connect new Manifold Pressure hose (AE7013354B0112) *[Handwritten initials: JTB]*
 - 12 - Connect fuel flow hose, to firewall (AE3653819B0350) *[Handwritten initials: JTB]*
 - 13 - Turn on fuel valve & leak check fuel hoses *[Handwritten initials: JTB]*
 - 14 - Connect & rig governor cable *[Handwritten initials: JTB]*
 - 15 - Secure balance tube & forward baffle (1255006-4) *[Handwritten initials: JTB]*
Clamp balance tube to forward baffle with MS21919DG22 clamps *[Handwritten initials: JTB]*
 - 16 - Clamp governor cable to intake pipe MS21919WDG36 and DG8, approx. 10" from fire wall *[Handwritten initials: JTB]* & Clamp cable to support bracket (S2300-2) with oil press hose, (WDG8) *[Handwritten initials: JTB]*
 - 17 - Connect alternator wires & clamp alternator and EGT wire harnesses to air box *[Handwritten initials: JTB]*
 - 18 - Install fuel pump & L/H manifold drain tubes *[Handwritten initials: JTB]*
 - 19 - Install manifold drain line, to Forward R/H and aft "T" fitting *[Handwritten initials: JTB]*
(Install support bracket P/N-1250402-1 for forward drain tube midway between fwd and aft line attachment points and fwd of oil sump)

AIRCRAFT N# 59240

HOBBS 5281.2

Designated Inspector

20 - McCauley D3A32C88/D3A34C404 S/N _____ TSO _____
Install prop and torque (45-50 ft-lbs lubed, reference McCauley placard # A-2230-9)
(55-65 ft-lbs dry reference McCauley placard # A-2230) O ring (A1633-3)
(If propeller is new to this Aircraft fill out installation log sheet FX1006A and
FX1006B Time Compliance Parts Sheet and send to Aircraft Records & Parts Dept)

Signature _____ A&P # _____ Date _____

Hartzell PHC-J3YF-IRF S/N FP7644D TSO 886.3
Install prop and Dry Torque to 70-80 ft-lbs (840-960 in. lbs.) O ring (MS28775-228)
(If propeller is new to this Aircraft fill out installation log sheet FX1006A and FX1006B
Time Compliance Parts Sheet and send to Aircraft Records and Parts dept)
Hartzell Conversion (If new to this Aircraft) requires form 337 N

Signature _____ A&P # 3143532 Date 02/17/12

21 - Grease prop (Hartzell) by removing 1 grease fitting at each blade part Apply grease
to each fitting until grease emerges from the removed lube fitting hole in a steady flow or
a maximum of 1 fl. oz. of grease has been applied part Install grease fittings and
torque to 50" lbs. part Install grease fitting caps part Install Spinner part

22 - Service engine with oil (10 qts of mineral oil, check dipstick for accuracy) part

23 - Remove oil filter, Install aircraft breather pipe section to engine breather pipe
section part. Do not reinstall filter at this time part

24 - Prime oil pump, by adding approximately 1/2 qt. of mineral oil to the top, oval shaped
cavity, while pulling prop thru backwards, re-install oil filter, CH48109 and safety part

25 - Install starter, (if removed), and connect cable part
Connect and secure aircraft battery cables part

26 - Inspect & connect "P" leads to mags part
Verify connections with mag switch positions part

27 - Temporary install safety ground leads to mag terminals & pre oil engine part

28 - Connect vac pump hose part Connect Stand-by Vacuum System part

29 - Inspect and install EGT probe/secure wire harness part

30 - Install mufflers & tail pipes assy on to collectors L/H part R/H part
secure tail pipes to firewall shock mounts L/H part R/H part

31 - Install scat ducts for cabin heat system part Install stand-off bracket (1250014-1),
clamp (DG48) & screw (STD1856) part

32 - Install remaining spark plugs & connect harness part

33 - Connect throttle warning follow-up cable part

34 - Rig throttle warning switch part

35 - Place spare case of ⁶⁵100 mineral oil in baggage compartment part

36 - Placard instrument panel (mineral oil only) part

AIRCRAFT N# 59240

HOBBS 52812

37 - Install set up test fuel gauge AW

38 - Turn fuel on, leak check all fuel line connections AW

Designated Inspector
AW
AW

RUN-UP: Make all adjustments: **IAW TCM SID 97-3E & Hartzell prop owner's manual** (After each adjustment to idle)

1 - Warm up engine into **green arc** before making adjustments AW (After each adjustment to idle mixture, run engine up to 2000 RPM to clean engine of excess fuel)

2 - Check/set low fuel pump pressure: 9 - 11 PSI @ 600 RPM 9 AW
3 - Set idle RPM to 650 RPM AW Fuel flow @ idle = 2 lbs per hr.
Oil pressure @ idle = 50 PSI

4 - Idle cut off rise @ 1000 RPM = 25 RPM (25 to 50 rpm)

5 - Check "OFF" position function of mag switch at idle AW

6 - Check / set high fuel pump pressure (31-33 PSI @ 2850 RPM) 31 AW

7 - Check / set prop low pitch stop AW (Hartzell Only)
If prop is (new or O/H installation) low pitch stop on prop should be checked. (IAW Hartzell Propeller Owner's manual pages 4-3 thru 4-5 & page 6-27 for op's ck) AW (Static run on engine with uncontrolled governor is 2800-2850 RPM) Re-torque jam nut 15-20 ft lbs. AW

7a - Check / set prop governor for max power @ 2800 RPM AW

8 - Oil pressure @ full power = 55 PSI Fuel flow @ full power = 150 lbs per hour

9 - Mag check drop @ 1700 RPM: L/H 100 RPM R/H 100 RPM

10 - Check instrument vacuum @ 2300 RPM = 5.2 (4.5" to 5.2")

10a - Check stby vacuum @ idle RPM = 5.2 (4.5" to 5.2")

11 - Check Alternator operation AW

12 - Check stby alternator operation (see Form FX 1020 BC) AW

13 - Check dynamic prop balance **IAW ACES** prop balance instruction manual AW

14 - Post run-up and eng. calibration completed by:

Sign AW A&P# 344338 Date 02/14/12

15 - Remove test equipment AW Perform leak check at fuel line connection AW

16 - Retorque exhaust nuts after run-up & cool down (100-110 in lbs) AW

17 - Check oil level and service as necessary AW

18 - Install updated cockpit sheet AW

19 - Leak check Engine compartment (oil & fuel leaks) & Install cowling AW

20 - Setup functional check flight and Engine Break- in flight AW

Engine installation reviewed for completion by:

Signature AW Certificate # 344338 Date 02/14/12

ENGINE MAINTENANCE RECORDS

Log No. 3

Aircraft Registration No. _____

Engine Manufacturer Teledyne Continental

Model 10-520-L

Serial No. 295500-R

Airnet Systems Inc.
W/O#: 05-I-92708

Open at date : 06/18/13
Close date : 06/19/13

No. St. Paul Tel: Page: 1 Of 1

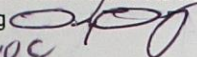
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|------------------------------|--------|----------|----------|
| For Aircraft : <u>N59240</u> | Engine | IO-520-L | 295500-R |
| Total: Hours <u>2549.90</u> | Cycles | Landings | Other |
| Engine TSO <u>857.20</u> | CSO | LSO | OSO |

A.D.s checked thru issue 2013-12.

- 1 Performed Inspection - Scheduled, 100 Hour Inspection. . (Operations for hire or flight instruction, FAR 91.409(b) Hobbs6136.8 06/19/13...

Certificate of return to service

This aircraft and/or component identified herein was repaired and/or inspected in accordance with current Federal Aviation Regulations and was determined to be airworthy for return to service. Pertinent details are on file at this Repair Station under the work order number above.

Signed off by : Outbase Tran Ngoc Trung 

Certificate Number : RS BSY 2610C



Airnet St. Paul
W/O#: 05-I-93139

Open at date : 8/9/13
Close date : 8/9/13

St. Paul Tel: Page: 1 Of 1

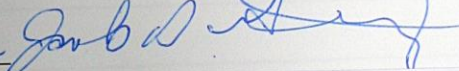
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|------------------------------|--------|----------|----------|
| For Aircraft : <u>N59240</u> | Engine | IO-520-L | 295500-R |
| Total: Hours <u>2637.20</u> | Cycles | Landings | Other |
| Engine TSO <u>944.50</u> | CSO | LSO | OSO |

A.D.'S Checked thru issue 2013-15

- 1 Performed Inspection - Scheduled, 100 Hour Inspection. . (Operations for hire or flight instruction, FAR 91.409(b) 08/09/13 Hobbs * 6224.1.
- 2 Performed Service Bulletin, MSB645. Inspect Magneto Impulse Couplings. 08/09/13 Hobbs * 6224.1 condition satisfactory.

Certificate of return to service

This aircraft and/or component identified herein was repaired and/or inspected in accordance with current Federal Aviation Regulations and was determined to be airworthy for return to service. Pertinent details are on file at this Repair Station under the work order number above.

Signed off by : Outbase Jack D. Gantz 

Certificate Number : RS BSY 2610C

Airnet St. Paul
W/O#: 05-I-93664

Open at date : 10/16/13
Close date : 10/22/13

St. Paul Tel: Page: 1 Of 1

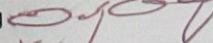
| | | | |
|------------------------------|--------|----------|----------|
| For Aircraft : <u>N59240</u> | Engine | IO-520-L | 295500-R |
| Total: Hours <u>2729.40</u> | Cycles | Landings | Other |
| Engine TSO <u>1036.70</u> | CSO | LSO | OSO |

A.D.s checked thru issue 2013-21.

- 1 Performed Inspection - Scheduled, 100 Hour Inspection. . (Operations for hire or flight instruction, FAR 91.409(b) Hobbs6316.3 10/22/13...
- 2 Performed Inspection - Scheduled, Annual Inspection. FAR 43, Appx. D. Hobbs6316.3 10/22/13...

Certificate of return to service

This aircraft and/or component identified herein was repaired and/or inspected in accordance with current Federal Aviation Regulations and was determined to be airworthy for return to service. Pertinent details are on file at this Repair Station under the work order number above.

Signed off by : Outbase Tran Ngoc Trung 

Certificate Number : RS BSY 2610C

Airnet Systems
W/O#: 01-I-95990

Open at date : 10/02/14
Close date : 10/06/14
Tel : 800-999-1083
Page: 1 Of 1

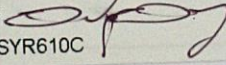
7250 Star Check Drive Columbus Oh 43217
For Aircraft : N59240 , Engine , IO-520-L , 295500-R
Total: Hours 2814.20 Cycles Landings Other
Engine TSO 1121.50 CSO LSO OSO

A.D.s checked thur issue 2014-20.

- 1 . Performed Inspection - Scheduled, 100 Hour Inspection . . (Operations for hire or flight instruction, FAR 91.409(b) Hobbs6401.1 10/02/14:..
- 2 . Performed Inspection - Scheduled, Annual Inspection. FAR 43, Appx. D. Hobbs6401.1 10/02/14:..

Certificate of return to service

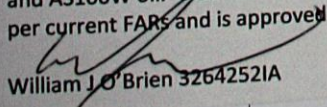
This aircraft and/or component identified herein was repaired and/or inspected in accordance with current Federal Aviation Regulations and was determined to be airworthy for return to service. Pertinent details are on file at this Repair Station under the work order number above.

Signed off by : Tran Ngoc Trung 
Certificate Number : RS BSYR610C



Date: 6/1/2016 N59240 Tach :6421.8 AFTT: 14470.7
Engine TSMOH: 1142.3 Prop TSOH: 2010.6

I certify that this engine has been inspected in accordance with a 100 HR/Annual type inspection and was found to be in an AIRWORTHY condition. Changed oil and filter, cut and inspected filter with no defects found, Serviced engine with new filter and AS100W oil. Cleaned and rotated spark plugs, cleaned fuel injectors, installed new bracket air filter. All work accomplished per current FARs and is approved for return to service. Compressions: 1) 75 2) 72 3) 75 4) 75 5) 73 6) 72


William J. O'Brien 32642521A

9.1.16 N59240 Hobbs 6426.3 TTIS 14,475.2
C-210-L IO-520-L SN. 295500-R TSMOH 1146.8
Cleaned , Gapped, painted, and installed spark plugs.
Removed, cleaned, and tested fuel injectors, reinstalled and
Leak checked system. Did compression test and all were
With in manufacturers acceptable range. Checked and CW
Ads thru this date. This date inspected this engine I/A/W an
annual inspection and determined it to be in an airworthy
condition. *Con Cople* ANP 3324276IA

SWAS
SOUTHWEST AVIATION SPECIALTIES, LLC
918/298-4044 Fax 918/298-6930
LOGBOOK ENTRY

REG: N59240 MODEL: Cessna 210L S/N: 21060174
Engine: IO-520-L S/N 565500-R
Hobbs: 6466.2 DATE: 30-March-2017

1. Installed a EDM 930 Primary engine monitor system P/N EDM-930 S/N 06525. See FAA form 337 number 2017000211 signed by William Cople dated 03-29-2017.
2. Test flew aircraft and operated all installed systems and all new systems in aircraft. Flew aircraft and systems through all modes and operations. All systems and functions operated normally IAW manufactures specifications

This aircraft was repaired/inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service, in regards to the work performed. Pertinent details of the repair/inspection are on file at this repair station under work order: 16-0253.

William Cople
William Cople
Southwest Aviation Specialties, L.L.C.
CRS S30R818N

DA



769

Page No. _____

Alpha Aviation Mission Outreach Center Inc.
P.O. Box 1622 / Davis Field Airport. Muskogee, OK 74403
(479)856-5000 (918)781-3004

| 10/03/2017 | Make | Model | Year | S/N: | Hour | TACH | TTIS |
|------------|-------------|----------|------|-----------|--------|------|-------------|
| N59240 | Cessna | 210L | 1974 | 210-60174 | 6532.8 | 62 | 14580.4 |
| Engine | Continental | IO-520-L | | 295500-R | | | SMOH 1254.0 |

Action Taken: Annual Inspection

1. Service and inspect engine in accordance with a Annual Inspection guidelines.
2. Compression's 66, 64, 70, 68, 71/80.
3. Drained engine oil. Removed, opened and inspected oil filter, no abnormal contamination found.
4. Install new Oil Filter Tempest P/N AA48109, 9 Qts Phillips XC 20W 50 & 16 oz CamGuard.
5. Remove, inspect, clean, gap, rotate and re-install spark plugs using new gaskets.
6. Remove, clean and re-Install Fuel Injectors.
7. Install new engine air filter element P/N: BA-2205L.
8. Remove Magnetos for 500 Hr inspection and service.
9. Install Left Mag Bendix P/N:10-349350-4 S/N:FO6JA073R repaired by Aircraft Accessories of Oklahoma Inc.
10. Install Right Mag Bendix P/N:10-349350-5 S/N:FO5LA329R repaired by Aircraft Accessories of Oklahoma Inc.
11. Run-up complete, all systems normal, no leaks.

Remarks: 100 hr / Annual inspection completed.

Work performed in accordance with appropriate service publications by Benjamin Serafin, Randy Baumann.

Signature: **J R Baumann AP 2583021**

Alpha Aviation Mission Outreach Center Inc.
P.O. Box 1622 / Davis Field Airport. Muskogee, OK 74403
(479)856-5000 (918)781-3004

| 11/07/2018 | Make | Model | Year | S/N: | Hour | TACH | TTIS |
|------------|-------------|----------|------|-----------|--------|-------|-------------|
| N59240 | Cessna | 210L | 1974 | 210-60174 | 6663.3 | 184.6 | 14705.0 |
| Engine | Continental | IO-520-L | | 295500-R | | | SMOH 1376.6 |

Action Taken: Annual Inspection

1. Service and inspect engine in accordance with a Annual Inspection guidelines.
2. Compression's 76, 62, 75, 67, 71, 76.
3. Drained engine oil through screen and inspected filter, small amount of contamination found. Recommend oil change in 50 hours and inspect again. Serviced w/ 9 qts Phillips XC20W50 & 16oz Camguard..
4. Adjust Magneto timing from 16*(LH) and 20*(RH) to 22* both.
5. Installed 12 new Tempest URHB32E spark plugs with new copper gaskets.
6. Pressure tested and visually inspected exhaust mufflers.
7. Run-up complete, all systems normal, no leaks.

This aircraft has been inspected in accordance with an ANNUAL INSPECTION and found to be in airworthy condition.

Work performed in accordance with appropriate service publications by Stephanie Schledom, Scott Helms and Randy Baumann.

Signature: **J R Baumann AP 2583021**

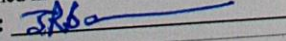
Alpha Aviation Mission Outreach Center Inc.
P.O. Box 1622 / Davis Field Airport. Muskogee, OK 74403
(479)856-5000 (918)781-3004

| 7/18/2019 | Make | Model | Year | S/N: | Hour | TACH | TTIS |
|-----------|-------------|----------|------|-----------|--------|-------|-------------|
| N59240 | Cessna | 210L | 1974 | 210-60174 | 6693.5 | 212.1 | 14703.0 |
| Engine | Continental | IO-520-L | | 295500-R | 6693.5 | 212.1 | SMOH 1404.1 |

Action Taken: Annual Inspection

1. Changed oil and filter. Serviced w/ 9 qts Phillips XC 20W50 and 1 Camguard.
2. Run-up complete, all systems normal, no leaks.

Work performed in accordance with appropriate service publications by Stephanie Schledom and Randy Baumann.

Signature: **J R Baumann AP 2583021**

P-



Alpha Aviation Mission Outreach Center Inc.
 P.O. Box 1622 / Davis Field Airport. Muskogee, OK 74403
 (479)856-5000

| 05/05/2023 | Make | Model | Year | S/N: | Hour | TACH | TTIS |
|------------|-------------|----------|------|-----------|--------|--------------|-------------|
| N59240 | Cessna | 210L | 1974 | 210-60174 | 6724.9 | 240.2 (26.5) | 14758.4 |
| Engine | Continental | IO-520-L | | 295500-R | | | SMOH 1432.2 |

WORK

1. Service and inspect engine in accordance with Annual Inspection guidelines.
2. Compression's 52, 49, 74, 48, 54, 64 STD 44 Boroscope inspection OK.
3. New plugs were installed at 184.6 tach. (55.5 Plugs TTIS)
4. Remove, inspect, clean, gap, rotate and re-install spark plugs using new M-674 gaskets.
5. Drained engine oil through screen and inspected filter, small amount of contamination found.
6. Minor amounts of magnetic "fuzz" found in last two oil changes. Just enough to have whiskers on the end of a 1/4 in magnet. Found on magnetic drain plug. Oil drained through a funnel with screen. Filter opened, inspected visually and by soaking in a container of solvent and drawing a magnet through the cup. Recommend same detailed oil filter inspection at next oil change.
7. Install new Oil Filter Tempest P/N AA48109, 9 Qts Phillips XC 20W 50 & 16 oz CamGuard.
8. Pressure tested and visually inspected exhaust mufflers.
9. AD's checked to date, AD 20-16-11 is not applicable to IO-520-L, no new AD's applicable this date.
10. Run-up complete, all systems normal, no leaks.

Work performed in accordance with appropriate service publications.

Signature: JRB

J R Baumann AP 2583021



Alpha Aviation Mission Outreach Center Inc.
 P.O. Box 1622 / Davis Field Airport. Muskogee, OK 74402
 (479)856-5000

| 01-18-2024 | Make | Model | Year | S/N: | Hour | TACH | TTIS |
|------------|-------------|--------------------|------|-----------|--------|--------------|-------------|
| N59240 | Cessna | 210L | 1974 | 210-60174 | 6748.1 | 257.7 (17.5) | 14775.9 |
| Engine | Continental | IO-520-L | | 295500-R | 6748.1 | 257.7 | SMOH 1449.7 |
| Propeller | Hartzell | PHC-J3YF-1RF/F7691 | 2023 | FP10223B | 6748.1 | 257.7 | SNEW 00.0 |

1. Remove Propeller and de-sludge crankshaft.
2. Replace propeller with new Hartzell PHC-J3YF-1RF/F7691 and new Spinner PN C-4586-P, SN 2306225.
3. F-flange prop mounting nuts torqued 70-80 ft-lbs. Per Table 3-2 of Manual No. 115N, Revision 26, dated Aug 2023.
4. Propeller purchased from Foster's Propeller Service who installed new de-ice boots and painted the blades white per customer request. Propeller backing plate with TKS de-ice transferred to new prop to comply with FIKI STC.
5. Dynamic Propeller Balance using Dyna-Vibe. Initial reading .13 @ 051. Added 14.6 gram @ 235 Final .04 @ 51.
6. Drain engine oil. Remove, open and inspect oil filter for particulates, none found.
7. Install new CH-48108-1 oil filter, 10 quarts Phillips X/C 20W 50 and 16 oz. CamGuard.
8. Run up complete, normal operation, no leaks.

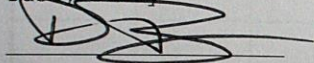
All work performed in accordance with appropriate service publications by Jason Baumann and Randy Baumann.

Signature: JRB

J R Baumann AP 2583021

Drained oil and replaced with 9 quarts of Phillips 66 X/C Aviation 20w-50 oil. Removed oil filter and replaced with Champion oil filter #CH48108. Replaced safety wire on the filter and drain plug. Engine test run and no leaks.

Dusty Berry

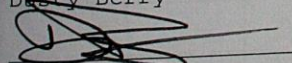


Owner/pilot #3889496 N59240 Date 2-17-24 Hobbs 6880.0 Tach 388.1

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Drained oil and replaced with 9 quarts of Phillips 66 X/C Aviation 20w-50 oil. Removed oil filter and replaced with Champion oil filter #CH48108. Replaced safety wire on the filter and drain plug. Engine test run and no leaks.

Dusty Berry



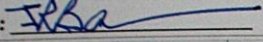
Owner/pilot #3889496 N59240 Date 3-10-24 ~~6835.2~~ Hobbs 6935.2 Tach 440.7



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| 09/12/2019 | Make | Model | Year | S/N: | Hour | TACH | TTIS |
|------------|-------------|----------|------|-----------|--------|-------|-------------|
| N59240 | Cessna | 210L | 1974 | 210-60174 | 6695.5 | 213.7 | 14731.9 |
| Engine | Continental | IO-520-L | | 295500-R | | | SMOH 1405.7 |

1. Compression's 75, 63, 74, 68, 72, 75/80
2. Run-up complete, all systems normal, no leaks.

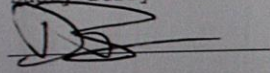
Signature: 

J R Baumann AP 2583021

3 WORK

Drained oil and replaced with 9 quarts of Phillips 66 X/C Aviation 20w-50 oil. Removed oil filter and replaced with Champion oil filter #CH48108. Replaced safety wire on the filter and drain plug. Engine test run and no leaks.

Dusty Berry

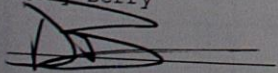


Owner/pilot #3889496 N59240 Date 4-4-24 Hobbs 7000.4 Tach 504.5

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Drained oil and replaced with 9 quarts of Phillips 66 X/C Aviation 20w-50 oil. Removed oil filter and replaced with Champion oil filter #CH48108. Replaced safety wire on the filter and drain plug. Engine test run and no leaks.

Dusty Berry



Owner/pilot #3889496 N59240 Date 5-5-24 Hobbs 7065.3 Tach 570.7

Drained oil and replaced with 9 quarts of Phillips 66 X/C Aviation 20w-50 oil. Removed oil filter and replaced with Champion oil filter #CH48108. Replaced safety wire on the filter and drain plug. Engine test run and no leaks.

Dusty Berry

Owner/pilot #3889496 N59240 Date 5-29-24 Hobbs 7,133.5 Tach 632.5

| 06-21-2024 | Make | Model | Year | S/N: | Hour | TACH | TTIS |
|------------------|--------------------|--------------------|------|-----------|--------|---------------|-------------|
| N59240 | Cessna | 210L | 1974 | 210-60174 | 7134.2 | 632.9 (392.7) | 15151.1 |
| Engine | Continental | IO-520-L | | 295500-R | 7134.2 | 632.9 | 1824.9 SMOH |
| Propeller | Hartzell | PHC-J3YF-1RF/F7691 | 2023 | FP10223B | 7134.2 | 632.9 | 375.2 SNEW |

ALPHA AVIATION
Alpha Aviation Mission Outreach Center Inc.
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(479)856-5000

- Inspect and service engine IAW an Annual Inspection per FAR 43, Appendix D.
- Compression's 70, 50, 60, 65, 60, 70/80. STD 44 Boroscope inspection OK.
- Spark plugs were previously installed new at 184.6 tach. (448.3 Plugs TIS)
- Remove, inspect, clean, gap, rotate and re-install spark plugs using new M-674 gaskets.
- Engine oil and filter NOT serviced due to recent oil and filter change per owner.
- Pressure tested and visually inspected exhaust mufflers.
- AD's checked to date, no new AD's applicable this date.
- Replace starter with Hartzell Factory Overhaul PN 646275-1R, SN H-Y022253 to crank effectively
- Run up complete, normal operation, no leaks.

All work performed in accordance with appropriate service publications by Jason Baumann and Randy Baumann.
This engine has been inspected in accordance with an ANNUAL INSPECTION and found to be in airworthy condition.

Signature: [Signature] J R Baumann AP 2583021 IA

Drained oil and replaced with 9 quarts of Phillips 66 X/C Aviation 20w-50 oil. Removed oil filter and replaced with Champion oil filter #CH48108. Replaced safety wire on the filter and drain plug. Engine test run and no leaks.

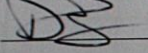
Dusty Berry

Owner/pilot #3889496 N59240 Date 7-25-24 Hobbs 7,188 Tach 685.7

TOTALS brought forward from previous page

Drained oil and replaced with 9 quarts of Phillips 66 X/C Aviation 20w-50 oil. Removed oil filter and replaced with Champion oil filter #CH48108. Replaced safety wire on the filter and drain plug. Engine test run and no leaks.

Dusty Berry



Owner/pilot #3889496 N59240 Date 9-2-24 Hobbs 7245.4 Tach 743.1

Drained oil and replaced with 9 quarts of Phillips 66 X/C Aviation 20w-50 oil. Removed oil filter and replaced with Champion oil filter #CH48108. Replaced safety wire on the filter and drain plug. Engine test run and no leaks.

Dusty Berry



Owner/pilot #3889496 N59240 Date 10/25/24 Hobbs 7310.8 Tach 808.5

Drained oil and replaced with 9 quarts of Phillips 66 X/C Aviation 20w-50 oil. Removed oil filter and replaced with Champion oil filter #CH48108. Replaced safety wire on the filter and drain plug. Engine test run and no leaks.

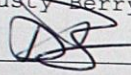
Dusty Berry



Owner/pilot #3889496 N59240 Date 1-30-25 Hobbs 7370.5 Tach 868.2

Drained oil and replaced with 9 quarts of Phillips 66 X/C Aviation 20w-50 oil. Removed oil filter and replaced with Champion oil filter #CH48108. Replaced safety wire on the filter and drain plug. Engine test run and no leaks.

Dusty Berry



Owner/pilot #3889496 N59240 Date 4-5-25 Hobbs 7429.4 Tach 927.1

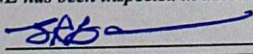


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P.O. Box 1622 / Davis Field Airport, Muskogee, OK 74402
(479)856-5000

| 09-02-2025 | Make | Model | Year | S/N: | Hour | TACH | TTIS |
|------------------|--------------------|--------------------|------|-----------|--------|--------------|------------|
| N59240 | Cessna | 210L | 1974 | 210-60174 | 7504.9 | 1000 (367.1) | 15,518.2 |
| Engine | Continental | IO-520-L | | 295500-R | 7504.9 | 1000 | 2192 SMOH |
| Propeller | Hartzell | PHC-J3YF-1RF/F7691 | 2023 | FP10223B | 7504.9 | 1000 | 742.3 SNEW |

1. Inspect and service engine IAW an Annual Inspection per FAR 43, Appendix D.
2. Compression's 65, 42, 61, 61, 63, 61/80. STD 40 Boroscope inspection OK.
3. Remove, inspect, clean, gap, rotate and re-install spark plugs using new M-674 gaskets. (815.4 Plugs TIS)
4. Drained engine oil, remove, open an inspect filter, NO unusual particulates found.
5. Installed new AA 48108-2, 10 quarts Phillips X/C 20 W 50 and 16 oz. CamGuard.
6. Pressure tested and visually inspected exhaust mufflers.
7. AD's checked to date, no new AD's applicable this date.
8. Run up complete, normal operation, no leaks.

All work performed in accordance with appropriate service publications by Jason Baumann and Randy Baumann.
This ENGINE has been inspected in accordance with an ANNUAL INSPECTION and found to be in airworthy condition

Signature: 

J R Baumann AP 2583021 IA



N59240

1974 Cessna 210L

S/N 21060174



Alpha Aviation Mission Outreach Center Inc.
P.O. Box 1622 / Davis Field Airport, Muskogee, OK 74402
(479)856-5000

| 09-02-2025 | Make | Model | Year | S/N: | Hour | TACH | TTIS |
|------------------|--------------------|---------------------------|------|-----------|--------|--------------|------------|
| N59240 | Cessna | 210L | 1974 | 210-60174 | 7504.9 | 1000 (367.1) | 15,518.2 |
| Engine | Continental | IO-520-L | | 295500-R | 7504.9 | 1000 | 2192 SMOH |
| Propeller | Hartzell | PHC-J3YF-1RF/F7691 | 2023 | FP10223B | 7504.9 | 1000 | 742.3 SNEW |

1. Inspect and service engine IAW an Annual Inspection per FAR 43, Appendix D.
2. Compression's 65, 42, 61, 61, 63, 61/80. STD 40 Bore scope inspection OK.
3. Remove, inspect, clean, gap, rotate and re-install spark plugs using new M-674 gaskets. (815.4 Plugs TIS)
4. Drained engine oil, remove, open and inspect filter, NO unusual particulates found.
5. Installed new AA 48108-2, 10 quarts Phillips X/C 20 W 50 and 16 oz. CamGuard.
6. Pressure tested and visually inspected exhaust mufflers.
7. AD's checked to date, no new AD's applicable this date.
8. Run up complete, normal operation, no leaks.

All work performed in accordance with appropriate service publications by Jason Baumann and Randy Baumann.
This ENGINE has been inspected in accordance with an ANNUAL INSPECTION and found to be in airworthy condition.

Signature: JRB J R Baumann AP 2583021 IA



Alpha Aviation Mission Outreach Center Inc.
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(479)856-5000

| 03/08/26 | Make | Model | Year | S/N: | Hour | TACH | TTIS (11.1) |
|------------------|--------------------|---------------------------|------|-----------|--------|--------|-------------|
| N59240 | Cessna | 210L | 1974 | 210-60174 | 7518.1 | 1011.1 | 15528.1 |
| Engine | Continental | IO-520-L | | 295500-R | 7518.1 | 1011.1 | 2203.1 SMOH |
| Propeller | Hartzell | PHC-J3YF-1RF/F7691 | 2023 | FP10223B | 7518.1 | 1011.1 | 753.4 SNEW |

1. Drained engine oil, remove, open and inspect filter, NO unusual/abnormal particulates found.
2. Installed new AA 48108-2, 10 quarts Phillips X/C 20 W 50 and 16 oz. CamGuard.
3. Operation checks normal, no leaks.

All work performed in accordance with appropriate service publications by Jason Baumann and Randy Baumann.

Signature: JRB J R Baumann AP 2583021 IA