

19__

TACH
TIMETODAYS
FLIGHTTIME IN
SERVICEENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF
MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

All information are on file at Ly-Con under Job#13451.

Complied with all A.D.'s & S.B.

Test Run 1 1/2 Hrs TT _____.

2 of 2 pages

This Aircraft, Engine, or Component, Identified
Above Has Been Repaired and/or Inspected in Ac-
cordance With Current Federal Aviation Administra-
tion Regulations and Is Approved For Return To
Service. PERTINENT DETAILS OF THE REPAIR
ARE ON FILE AT THIS STATION UNDER WORK

ORDER NO. 13451 DATE 5/21/97

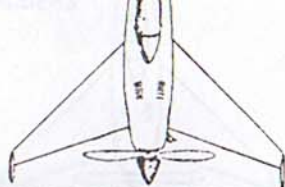
SIGNED

LY-CON REBUILDING CO.
VISALIA, CALIF.

REPAIR STATION
CT3R439L

LY-CO_N

REBUILDING CO.



ADDRESS
8231 Doe Avenue
Visalia, CA 93291

BUSINESS PHONE:
(209) 651-1070
FAX (209) 651-3212

A 13451

FAA# CT3R435L

NAME
Paul Mennen

ADDRESS
1452 Owen Sound Dr

PHONE

CITY, STATE & ZIP
Sunnyville, CA 94087

P.O. NO.

MAKE & MODEL
Lycoming

SERIAL NO.

N NO.

ENG. MAKE & MODEL
AEIO-320E1B

ENG. SERIAL NO.
L-5705-55A

TACH TIME

WRITTEN BY

RECEIVED

PROMISED
5-21-97

DESCRIPTION / BOX

- 1 CHG. ENG. OIL & CLEAN SCREENS
- 2 CHG. OIL FILTER CART.
- 3 CLEAN, GAP, & CK. SPARK PLUGS
- 4 CHECK & ADJUST MAG TIMING
- 5 PERFORM DIFF. COMP. CHECK
- 6 REPL. BRAKE LINING

INSPECTIONS-SEE DISCREPANCY LIST

- 1 ANNUAL INSPECTION
- 2 100 HR. INSPECTION
- 3 PROGRESSIVE INSP. / EVENT #

SERVICE DESCRIPTION

Parts List Continued page 2

QTY.	PART NO.	DESCRIPTION	UNIT PRICE	AMOUNT
6	AN526-10R8	Button Head screw		
6	AN365-1032	Self Locking Nut		
8	REV40E	Spark Plug		
1	78531	Oil Pump Body		
1	05K19423-S	Oil Impeller Kit		
1	2524307-9	Servo		
1	2524232-2	Flow Divider		
1	STD-1065	dowel		
1	15B21319	Socket		
4	AL60398	Intake Rocker Bushing		
4	AL74637	Ex Rocker Bushing		
4	LW14077	Piston Pin		
8	LW11775	Pin Plug		
2	LW14995	Spring		
2	LW12272	Lock Plate		
		Ly-Con Overhaul Parts		5325.80
		Ly-Con labor		3100.00
		Total		8425.80
4	AEI65102	New Cylinder up Grade	300.00	1200.00
		Extra's over bid		
1	8406	Oil Collet O/H SN/11633		225.00
1	78030	Connecting Rod		100.00
1	75009	Crankshaft (R)&Nitrited SN/R20489-1		450.00
1	RSA5AD1	Flow Tested only / fuel servo		75.00
1	252423-2	Flow divider / flow only SN/75378		40.00
4		Fuel Nozzles & Lines Checked		20.00
1		Prop Gov Flush/Test SN/1495058		150.00
1		Crankcase for O-Ring repair		150.00
1	4251	Slick Mag 500hr insp SN/7059134		90.87
1	4250	Slick Mag 500hr insp SN/7020335		5.05
2	M3062	Seal		
1	M3975	Coil U/S		

EXTRA REPAIRS

COST

OUTSIDE REPAIRS

COST

TOTAL

TOTAL

SUMMARY

PARTS

OIL

GAS () OCT.

HYD. FLUID

LABOR

EXTRA REPAIRS

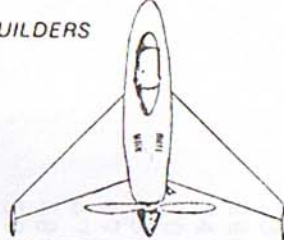
OUTSIDE REPAIRS

SALES TAX

TOTAL

LY-CON

REBUILDING CO.



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P.O. NO.

MAKE & MODEL

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AEIO 320E1B

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TACH TIME

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2	CHG. OIL FILTER CART.		
3	CLEAN, GAP, & CK. SPARK PLUGS		
4	CHECK & ADJUST MAG TIMING		
5	PERFORM DIFF. COMP. CHECK		
6	REPL. BRAKE LINING		
INSPECTIONS-SEE DISCREPANCY LIST			
1	ANNUAL INSPECTION		
2	100 HR. INSPECTION		
3	PROGRESSIVE INSP./ EVENT #		

SERVICE DESCRIPTION

lea Lycoming AEIO-320E1B Engine Overhaul
lea 4251 Slick Magneto SN/7059134 / 500hr Inspection
lea 4250 Slick Mag neto SN/7020335/ 500hr inspection

Total Invoice	\$ 11,452.65
deposit CH# 279	- 5,000.00
Total Due	\$ 6,452.65

EXTRA REPAIRS	COST	OUTSIDE REPAIRS	COST

QTY.	PART NO.	DESCRIPTION	UNIT PRICE	AMOUNT
1	69371-1	MCH Gasket set		
1	SL11997	Crank Seal		
1	SID-1211	Crank Plug		
2	LWL3884M06	Ert Mains		
4	LWL1021M06	Main Brg's		
1	LW75166	Gov Oil Line		
1	SL1028-b	Cil Ball		
1	61084	Cil Press Spring		
1	18840(R)	Cam Assy		
8	72877(R)	Lifter Bodies		
1	SID-2213	Crank Bolt		
4	LWL3923	Rod Bushing		
2	78030	O/H Rods		
8	79373M03	Rod Brg		
8	78027	Rod Bolts		
8	LWL2186	Rod Nuts		
1	76121	tach Shaft		
1	SID-2231	Ret Ring		
4	LW31F-0.88	Idler Bolts		
1	53E22144	Vernathern		
3	MS29512-06	C-Ring		
2	MS29512-08	C-Ring		
4	SID-1901	Data Plate Rivits		
4	SID-1196	Intake Hose		
8	#24	Hose Clamps		
4	SID-2180	Hose		
8	3606	Hose Clamps		
1	LWL5473	Fuel Pump		
1	SID-1930	Hose		
1	SL16266-25-38	Adel Clamp		
6	SL16266-10-13	Adel Clamps		
4	SL16266-10-75	Adel Clamps		
2	73136	90° Brackets		

SUMMARY

PARTS	AMOUNT
xxxx Labor	5325.80
xxxxxxxxxxxxxxxxxxxxx Ly-Con O/H	3100.00
xxxxxxxxx 4ea Cylinder upgrade	8425.80
LABOR	300.00
EXTRA REPAIRS Extras Over bid Page 2	1200.00
OUTSIDE REPAIRS	
SALES TAX	1305.92
	520.93

Ly-Con Rebuilding Co.
8231 W. Doe Ave.
Visalia Ca. 93291

Lycoming AEIO-320E1B

Aircraft N

Date 05/21/97

S/N L-5705-55A

JOB # 13451

No accessories. 500 hr. insp. on mags.

AD's		Method of compliance
64-16-05	Fuel pump oil seal failure.	NA by part number
66-20-04	Oil filter adapter gasket.	NA by part number
73-23-01	Piston pins.	NA by serial number
75-08-09 R3	Oil pump Failure.	S/S/B 96-09-10
80-06-05	Slick mag. failure.	NA by S/N
81-16-05	Slick cracked coils.	NA by S/N
81-18-04 R2	Superceded by AD 96-09-10	
87-10-06 R1	Rocker arms.	NA by S/N SB 477
90-04-06 R1	Governor line	C/W IAW SB 488A
91-14-22	Crankshaft gear retaining bolt.	C/W IAW SB 475B
92-12-05	Piston pin failure.	C/W IAW SB 501B
93-02-05	Fuel injector line support.	C/W IAW SB 342B
93-11-11	Rotomaster O/H fuel pumps.	NA by serial number
95-07-01	Defective connecting rod bolts	NA by part number
96-09-10	Oil pump impellers	C/W IAW SB 524
96-23-03	Fuel pump	C/W IAW SB 525A
97-01-03	Piston pin failure	C/W IAW SB 527B

Service Bulletins

238	Magnetized condition of tappet plungers.
240N	Mandatory parts replacement at overhaul.
342B	Fuel injector line support.
400	Teflon buttons.
439A	Inspect connecting rods for fretting and galling.
475B	Crankshaft gear modification and assembly.
477	Rocker arm inspection. (NA by serial no.)
488A	Governor line
501B	Piston pin inspection
505A	Crankshaft ID inspection.
518B	Thermostatic bypass valve inspection.
524	Replace oil pump impellers.
525A	Fuel pump inspection
527B	Piston pin inspection

Signature



FAA Repair Station CT3R435L

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7-2-97	3091.86		3091.86	<p>I certify that this <u>Engine</u> has been inspected in accordance with an <u>Annual</u> inspection and was determined to be in airworthy condition.</p>
				<p>Engine reinstalled in Bellanca N5050S after overhaul. Prop reinstalled after overhaul Replaced all exhaust gaskets Replaced SCAT ducting. Cooling baffles repaired as necessary bed blasted & painted Replaced baffle seal material Replaced air filter element & gasket serviced with Aeroshell 50wt mineral oil Engine ground run & checked for leaks</p>

4-5-97 3115.43

Service engine with 8^{ths} Aeroshell
100W oil and filter. Compression
72-72-72-72.

Dick E. Small AIP 561137979

7-15-98 Tach 3177.35

Compression: #1-75/80, #2-73/80, #3-75/80, #4-74/80. Changed
oil and filter, Aeroshell 100W. Installed new air filter,
CW #D 93-02-05 by MPI fuel injector lines, next due at
tach 3277 or next annual. I certify that this
engine has been inspected in accordance with
an annual inspection and has been determined
to be in airworthy condition.

Dick E. Small AIP 2100211IA

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.)
8-2-99	Tach	3244		<p>Compression: all cyl 75/80. Changed oil and filter, Aeroshell 100W. Installed new air filter. c/w</p> <p>AD 93-05-05 by inspecting fuel injector lines, next due at tach 3344 or next annual. I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition.</p> <p><i>[Signature]</i></p> <p>AG, 2100211 JA</p>
2/21/00	3297	Oil #	filter change.	
9-9-00	Tach	3365		<p>Compression: #10**2-74/80, #3**4-75/80. Changed oil and filter, Aeroshell 100W. Installed new air filter. c/w & AD 93-05-05 by inspecting fuel injector lines, next due at tach 3465 or next annual. Installed new B&C starter motor, see FAA form 337 dated 9-8-00. I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition.</p>

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6/20/00	3347	Oil & filter	change	
1/23/01	3406	"	"	"
6/6/01	3462	"	"	"
10-21-01	Tach 3481.77			<p>Compressor: #1-77/80, #2-75/80, #3-75/80, #4-74/80. Changed oil and filter, Aeroshell 100W. Installed new air filter. c/w AD 93-02-05 by inspecting fuel injector lines, next due at tach 3581 or next annual. Installed new muffler. Installed new inlet air duct I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition.</p> <p>R. [Signature] AIP 2100211A</p>
23 JAN 2001	T=3407	<p>CHANGED ENGINE OIL (8 QTS OF 50W AEROSHELL) & FILTER (CH48108), RAN UP TO LEAK CHECK. [Signature] AIP 184248027</p>		
5 JAN 2002	T=3497	<p>CLEANED & GAPPED ALL SPARK PLUGS. RAN UP TO MAG CHK & OKAY [Signature] AIP 184248027</p>		

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12 MAR 2002	T=3515			CHANGED OIL (8 QTS 50W AEROSHELL) & DL FILTER (CH48108), RAN UP TO LEAK CHECK. <i>M. Manner</i> AP184248027
30 JULY 2002	T=3557			REPLACED OIL (8 QTS 50W AEROSHELL) & FILTER (CH48108) RAN UP TO FUNCT. CHK & SATISF. <i>M. Manner</i> AP184248027
11-1-02	Tach 3578.1			Compression: #1- 75/80, #2- 74/80, #3- 75/80, #4- 74/80. Changed oil and filter, Aeroshell 100W. Installed new air filter. (W AD 93-02-05 by inspecting fuel injector lines, next due at tach 3678 or next annual. Installed all new engine mounts. Installed all new rocker cover gaskets. I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. <i>D. Stant</i> AIP 21002115A
10-08 2003	T=3646			REPLACED OIL (8 QTS 50W Aeroshell) & FILTER (CH48108), Adjusted idle (750 rpm cold), RAN UP TO FUNCT. CHECK & OKAY. <i>M. Manner</i> AP184248027

20 SEPT T= REPLACED TUBE IN RH WHEEL ASY
2002 3568 & TURNED TIRE & REPACKED WH. BRGS. ^{AP Keyner} API 184248027

16 JAN T= CHANGED OIL (8 QTS 50W AEROSHELL) & OIL FILTER
2003 3596 CH 48108. RAN UP TO LEAK CHECK & OKAY. 2nd ^{AP Keyner} API 184248027

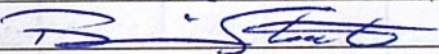
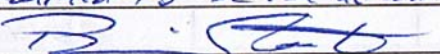
Tach 3646

oil and filter changed.

6-8-04 Tach 36527

Compressions: #1-75/80, #2-75/80, #3-75/80, #4-75/80.
Installed new air filter. I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. c/w AD 2002-26-01 by inspecting AP Keyner Tach #AP 2100211 IA fuel injector lines, next due @ 3750. 75S changed oil.

AUG 13 J= CHARGED BATTERY, REPLACED P/N A002B
2004 3659 HS AVIONICS EGT PROBE. ADJUSTED IDLE TO 500-600 RPM ^{AP Keyner} API 184248027

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7-05	Tach	3696.74		<p>Compressions: #1-⁷⁵/₈₀, #2-⁷⁴/₈₀, #3-⁷⁴/₈₀, #4-⁷⁵/₈₀.</p> <p>Changed oil and filter, Aeroshell 100W. Installed new air filter. c/w AD 2002-26-01 by inspecting fuel injector lines. I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. </p> <p style="text-align: right;">Apr 200211 JH</p>
8-10-06	Tach	3730.85		<p>Compressions: #1-⁷⁴/₈₀, #2-⁷⁴/₈₀, #3-⁷⁵/₈₀, #4-⁷⁶/₈₀ Changed oil and filter, Aeroshell 100W. Installed new air filter element. c/w AD 2002-26-01 by inspecting fuel injector lines, next due at tach 3830 or annual insp. AD 2005-26-10 N/A, ECI cylinders not installed. Replaced one spark plug. I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in airworthy condition. </p>

9-6-07 Tach 3768.75

Compressions: #1-75/80 #2-75/80 #3-75/80 #4-74/80.
changed oil and filter, Aeroshell 1100W. Installed
new air filter element. Installed new ^{FINE WIRE} glow
spark plugs. c/w AD 2002-26-01 by inspecting
fuel injector lines, next due next annual. AD
2006-12-07 N/A, ECI cylinders not installed. AD
2007-04-19 R1 N/A, Superior cylinders not installed.
I certify this engine has been inspected in
accordance with an annual inspection and
has been determined to be in airworthy condition.
B. S. [Signature] AD 2100211 JA

12/5/07 TACH. 3774.52

Installed new battery, Concorde CB35RGXC S/N A0208953

5/30/08 T=3785.58

693.72

COMPRESSIONS: #1 75/80 #2 75/80 #3 75/80 #4 70/80
SMOH PERFORMED 100hr INSP. & SVCS INW MPARS INSTR.
c/w AD 02-26-01 (INSP of fuel lines & c/amps); next due 11/09
CHANGED OIL (7 QTs EXXON ELITE 20-50W) & FILTER. I CERTIFY
THAT THIS ENGINE HAS BEEN INSPECTED INW AN ANNUAL

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5/30/08	(cont'd)			INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. JH Reynel IA 184248027
6-23-09	3808.11			Compressions all $75/80$. TTE = 3908 SMOH = 716.25. Cleaned & gapped sparkplugs, changed OIL (7 qts 20W-50W Exxon Elite) & filter. q/w AD 08-14-07 (insp. of fuel in l lines & clamps); next due @ T = 3908. Performed 100 hr insp & svcs IAW mfgs instructions. I certify that this engine has been inspected IAW an annual inspection & was determined to be in airworthy condition. JH Reynel IA 184248027
1-12-09	3793			Replaced oil (7 qts 20-50W EXXON ELITE) & FILTER JH Reynel IA 184248027
7/1/09	T = 3809			INSTALLED ALASKAN PUSHWHEEL PIN ABL-3216-00 TAILWHEEL HEAD ASSY AND UNIVERSAL TAIL BRACE WIRES 2x U2-1746-4 (UPPER) & 2x U3-1107-2 (LWR) JH Reynel AP 184248027

I certify that the ATC Transponder Tests &
Inspections required by FAR 91.413 were
performed IAW FAR 43 App. F.

Date 9 SEP 09 Time 3840.22
N 50508

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NOTE: This page is out of sequence ↴

31 MAR 2005 T= 3685 REPLACED OIL FILTER ES48108 & 8 QTS ARMOshell 100W. RAN UP TO FUNCTIONAL CHECK. J. J. Meyner AP184248027

01 MAR 2006 T= 3718 REPLD OIL FILTER CH48108-1 & 8 QTS ARMOshell 100W OIL. J. J. Meyner AP184248027

JAN 18 2007 T= 3742 REPLACED O-RING (GASCOLATOR CUP TO GASCOLATOR HEAD) J. J. Meyner AP184248027

JAN 18 2007 T= 3742 REPLACED O-RING (GASCOLATOR CUP TO GASCOLATOR HEAD), REPLACED IGNITION HARNESSES (UNISON M4001). CHANGED OIL (7 QTS 20-50W EXXON ELITE) & FILTER (CH48109). J. J. Meyner AP184248027.

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7.13.2010	3888		3888	COMPRESSIONS ALL $72 \pm 1/100$. CLEANED & GAPPED
		SMOH = 796		SPARKPLUGS. REPAIRED OIL FILTER. 9/11/08-14-07 (INSP OF
				FUEL LINES & CLAMPS); NEXT DUE @ TC 3988. PERFORMED 100hr INSP
				& SVCS IAW MEGRS INSTR. I CERTIFY THAT THIS ENGINE HAS BEEN
				INSPECTED IAW AN ANNUAL INSPECTION AND WAS DETERMINED TO
				BE IN AIRWORTHY CONDITION, J. W. Reynolds, IA 1376978