

Right

THE **adlog** TM AIRCRAFT
MAINTENANCE
RECORDKEEPING
SYSTEM

**ENGINE
MAINTENANCE
RECORDS**

2434
1996.5
294

ENGINE MAINTENANCE RECORDS

Right

Log No. 1

Aircraft Registration No. 49SF

Engine Manufacturer Continental

Model T510-520-N

Serial No. R-218-736-R

Date installed on aircraft 12/1/79

Time Between Overhauls (TBO) _____ Hours

If used on multi-engine aircraft:

☒ Right
☐ Front

☐ Left
☐ Rear

TOTALS—Carry forward to next page

Gold Medallion® Warranty protection

All Teledyne Continental Motors engines delivered as original equipment after January 1, 1980 are protected by TCM's exclusive Gold Medallion Warranty. This new warranty provides extended protection to the TBO of your engine. See your TCM distributor for all the facts or write direct to Teledyne Continental Motors for a free brochure.

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 (205) 438-3411, publications department, for information.

 **TELEDYNE CONTINENTAL MOTORS**
Aircraft Products Division

P. O. Box 90 • Mobile, Alabama 36601

27 23 11 1
23 5 1

This engine model TS10520NB10, Serial No. 266530R,
was rebuilt on 08-04-86 by Teledyne Continental Motors in
accordance with approved design data and the applicable requirements
of Part 21 of the Federal Aviation Regulations. The approved design data
for this engine incorporates all changes required by applicable Air-
worthiness Directives and Teledyne Continental Motors Service
Bulletins.

TELEDYNE CONTINENTAL MOTORS

Walter Fogue

 **TELEDYNE CONTINENTAL MOTORS**
Aircraft Products Division

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				

Page No. _____

ENGINE DESCRIPTION

TYPE CONTINENTAL MODEL TS10-520-NB SERIAL NO. 266530-R
DATE _____
RATED H.P. 310 MAXIMUM H.P. _____
RATED R.P.M. 2700 MAXIMUM R.P.M. _____ OIL PRESSURE _____
BORE _____ STROKE _____ DISPLACEMENT _____ CU. IN. _____
COMPRESSION RATIO _____ GEAR RATIO _____
PROPELLER MCCAULEY HUB DESIGN 3AF32C 93N/S82NC515 HUB SERIAL NO. 72P116
BLADE DESIGN _____ BLADE SERIAL NO. _____ BLADE SERIAL NO. _____
MAXIMUM HUB H.P. _____ MAXIMUM BLADE H.P. _____
PITCH _____ DIAMETER _____ LENGTH _____
OWNERS NAME N.L. S INC.
ADDRESS 672 BRENTWOOD DR. CITY SOUTH ORANGE STATE N.J. 07079
P.O. BOX 799

DATE
198
11-2

BROL

2420
2371
2351
234

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
1986													
11-24			HOUR METER-1996.5						T/T - 00.0		THIS ENGINE INSTALLED IN RIGHT SIDE POSITION OF CESSNA 414, S/N 414-0366, USING NEW LORD MOUNTS AND BOLTS, AND NEW FUEL + OIL HOSE KIT. SEE AIRFRAME LOG FOR ACCESSORIES REPLACED; CESSNA SERVICE KIT# SK414-18-1 INSTALLED; "OIL HEATED MANIFOLD VALVE" I/A/W INSTALLATION INSTRUCTIONS; OVERHAULED ALTERNATOR INSTALLED S/N 11J000064T, TO C/W AD# 76-2-7; OVERHAULED PRESSURIZED MAGNETOS INSTALLED L/S S/N A269158, R/S S/N 938318; DIPSTICK REARER P/N 633233-30; ENGINE SERVICED WITH 120TS 40W MINERAL AGRO-SHELL; ENGINE RUN-UP ADJUSTMENTS MADE I/A/W SHOP MANUAL.		
											confirm that this ENGINE has been inspected in accordance with AN ANNUAL inspection and was determined to be in airworthy condition.		
											Date 11-24-86 Tech. Reads 1996.5 Total Hrs 00.0		
											Tech. <i>[Signature]</i> A-144-44-6YK2-1		
BROUGHT FORWARD											SYREN-MEE AVIATION, INC.		
TOTALS													

TOTALS brought forward from previous page

DESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

ENGINE LOG

[illegible]

[illegible]

TOTALS brought forward from previous page

DESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

Page No. _____

ENGINE LOG

[illegible]

[illegible][illegible]

TOTALS brought forward from previous page

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ENGINE LOG

[illegible]

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
11-11-88											9 A.M. Changed oil and filter and serviced with Perselell 100W 50W oil. Compression check #1 70/80 #2 67/80 #3 65/80 #4 62/80 #5 65/80 #6 65/80 installed repaired magnetos L/H SGRN-1251 S/N A269158 and R/H SGRN-1255 S/N 988818.		
I hereby certify that this <u>Engine</u> has been inspected in accordance with a <u>Annual</u> inspection and is determined to be in an airworthy condition. See attached AD note summary. W.O. # <u>6002</u> T.T. <u>344.5</u> Date <u>11-11-88</u> BANKAN AIR SERVICES 1575 W. COMMERCIAL #32 FT. LAUDERDALE, FL 33309 F.A.A. CERTIFIED REPAIR STA. 765-25 FT. LAUDERDALE MIAMI (305) 491-3170 (305) 947-6455													
BROUGHT FORWARD													
TOTALS													

TOTALS brought forward from previous page

DESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

Page No.

ENGINE LOG

[illegible]

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TOTALS brought forward from previous page

ENGINE LOG

[illegible]

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
5-1-89	Hobbs: 24	24.8	Eng II:	428.3							Changed oil And filter, serviced with 12 Qts Aeroshell 15W50. Installed overhauled prop gov P/N DCF\$290 DT/T3 S/N 791899. Installed overhauled Tach gov P/N 22A667RX S/N AT-1932. Installed new oil line from baffle To fuel spider, Replaced Alternate Air door baffle seal. Replaced induction tube inner connects. Installed new prop heat brush block AND brushes. Installed new induction air filter. Prop overhauled by Palm Beach Aircraft Propeller, see prop log. Comp @68 @70 @40 @68 @72 @70. Performed Annual Insp per Cessna 441 Insp guide And approved for return To service. % 2660 Thomas E. Howell CRS 762-71 Boca Aviation		
BROUGHT FORWARD													
TOTALS													

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				

ENGINE LOG

[illegible]

24
23 71
23 51

234

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER		
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.					
8-22-89			Changed oil & filter												
1 1/2 hr work			248108 12 hrs Shell 15W50												
2502			11 hrs Shell 15W50												
10-2-89	METAL - 2537.6		50 HR INSPECTION COMPLETED THIS DATE; OIL DRAINED, FILTER												
	T/T - 541.1		REPLACED, ENGINE SERVICED WITH 12RTS 15W-50 AD ARADSHOLL, ALL												
			ENGINE CONTROLS CHECKED AND LUBED. OVERHAUL EXCHANGES WYE												
			PIRE P/N 9910299-8 INSTALLED USING NEW GASKETS. ENGINE WASHED												
			AND RUN-UP V.O.K.												
			Mech. Steve Volk Lic. APL141640228												
			Work Order No. 8343												
			SYREX-REE AVIATION, INC.												
BROUGHT FORWARD															
TOTALS															

TOTALS brought forward from previous page

DESCRIPTION OF WORK PERFORMED—
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ENGINE LOG

[illegible]

ENGINE LOG

[illegible]

P/N 420836-9020 Yellow Tag Attached

242
2371
234

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
7/1/91	TC		67.5								Change oil and filter serviced with 12 qts shell w15/50		
	C/WAD		75								23-08-85 EXH.		
FOOTHILL AIRCRAFT SALES & SERVICE, INC. CABLE AIRPORT, UPLAND, CALIFORNIA 91786 FAA APPROVED REPAIR STATION AJ4R052M I CERTIFY THAT THIS <u>engine</u> HAS BEEN INSPECTED IN ACCORDANCE WITH <u>A 25hr</u> INSP. AND APPROVED FOR RETURN TO SERVICE OTHER DETAILS OF THIS INSPECTION ARE ON FILE AT THIS FACILITY. W.O. NO. <u>9512</u> DATE <u>10-22-91</u> TAC <u>93</u> T.I. AC <u>2689</u> ENG. <u>690</u> NAME <u>Robert Smith</u>													
BROUGHT FORWARD <u>Smith, Robert</u> 1279270 TOTALS													

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				

ENGINE LOG

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**DESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK**

Page No.

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
11/18/92													
FOOTHILL AIRCRAFT SALES & SERVICE, INC. CABLE AIRPORT, UPLAND, CALIFORNIA 91786 FAA APPROVED REPAIR STATION AJ4R052M I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH <u>FAA</u> INSP. AND APPROVED FOR RETURN TO SERVICE OTHER DETAILS OF THIS INSPECTION ARE ON FILE AT THIS FACILITY. WD. NO. <u>2866</u> DATE <u>11/18/92</u> TDC <u>1821</u> T.D. AC <u>2749</u> ENG. <u>759</u> NAME <u>John</u> <u>Secured with 12pts shell w/100</u> <u>JWA</u>													
FOOTHILL AIRCRAFT SALES & SERVICE, INC. CABLE AIRPORT, UPLAND, CALIFORNIA 91786 FAA APPROVED REPAIR STATION AJ4R052M I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH <u>A 501</u> INSP. AND APPROVED FOR RETURN TO SERVICE OTHER DETAILS OF THIS INSPECTION ARE ON FILE AT THIS FACILITY. WD. NO. <u>9293</u> DATE <u>4-14-93</u> TDC <u>1821</u> T.D. AC <u>2769</u> ENG. <u>779</u> NAME <u>John</u>													
BROUGHT FORWARD													
TOTALS													

TOTALS brought forward from previous page

DESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

ENGINE LOG

DATE	R.P.M.		TIME ON GROUND			TIME IN AIR			TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hrs.	Min.	Total	Hrs.	Min.	Total	Hrs.	Min.			
8-19-83	Hobbs	265	11	50							9-3-93 Hobbs 224	change oil	
											Filter serviced with 16g shell w100		
											1/2 WAD 76-02-07 ALT Bearings		
											1/2 WAD 75-23-08 EXH INSP		
FOOTHILL AIRCRAFT SALES & SERVICE, INC. CABLE AIRPORT, UPLAND, CALIFORNIA 91786 FAA APPROVED REPAIR STATION AJ4R052M I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH <u>AN OIL CHANGE</u> INSP. AND APPROVED FOR RETURN TO SERVICE OTHER DETAILS OF THIS INSPECTION ARE ON FILE AT THIS FACILITY. W.O. NO. <u>9677</u> DATE <u>8-19-83</u> TAC <u>205</u> / <u>TTAC</u> / <u>2782</u> ENG. <u>802</u> NAME <u>White</u>											copy #1-62 #2-62 #3-66 #4-65 #5-70 #6-66 <u>80</u>		
FOOTHILL AIRCRAFT SALES & SERVICE, INC. CABLE AIRPORT, UPLAND, CALIFORNIA 91786 FAA APPROVED REPAIR STATION AJ4R052M I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH <u>AN OIL CHANGE</u> INSP. AND APPROVED FOR RETURN TO SERVICE OTHER DETAILS OF THIS INSPECTION ARE ON FILE AT THIS FACILITY. W.O. NO. <u>9676</u> DATE <u>9-3-93</u> TAC <u>224</u> / <u>TTAC</u> / <u>2811</u> ENG. <u>821</u> NAME <u>White</u>													
BROUGHT FORWARD													
TOTALS													

TOTALS brought forward from previous page

DESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

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DESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

Page No

ENGINE LOG

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
May 10 th 1995	HOURS: 314.8	TSM: 000.0 ch		Removed Engine for Overhaul Engine and Accessories Overhauled per Manufacturer Recommended Instructions or sent out for o/h. Reinstalled Engine in accordance with Cessna Maintenance Manual. Engine Test Run Satisfactory No leaks See Attached W/D for PMS List, c/w All 100 h and Annual Inspection Items per Cessna Service Manual this Date. I certify that I have inspected this engine in accordance with 100 h inspection and determined it to be in an Airworthy Condition this Date. T.D. Miller A/P 2329157
May 10 th 1995	HOURS: 314.8	TSM: 000.0 ch		CHECKED APPLICABLE AD NOTES thru 95-05. Engine c/w All applicable AD Notes thru 95-05 I certify that I have inspected this engine in with an Annual Inspection and determined it to be in an Airworthy Condition this Date. T.D. Miller A/P 2329157 IA
July 15 th 1995	HOURS: 330.8 ch	TSM: 16.0 ch		CHANGED OIL & FILTER INSTALLED AEROSHELL 50WT. DET. TEST RUN CHECKED for CRANKAGE, CRANKED 14/9.7MS AND GEARING AIRWORTHY CONDITION. T.D. Miller A/P 2329157
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
September 14 th 1995				HOURS: 352.0 h TSMOH: 38.0 h CHANGED OIL & FILTER AIRSHELL SWT. DE. INSTALLED NEW CHAMPION SPARK PLUGS. RHB32E NEW AMPUTURBS. CHECKED OVERALL ENGINE CONDITION T.D. White AIP 2329157.
11-28-95				HOURS 375 TSMOH 61 Hrs. OIL & FILTER CHANGED, 11 QTS BOAT COMP. AIRSHELL POWER, LUBRICATE CONTROLS.
				FOOTHILL AIRCRAFT SALES & SERVICE, INC. CABLE AIRPORT — UPLAND, CALIF. 91786 FAA APPROVED REPAIR STATION AJ4R052M WO# 11857 DATE 11-28-95 TAC 375 NAME <u>T.D. White</u>
April 21 st 1996				HOURS: 401.2 h TSMOH: 86.9 h ✓ CHANGED OIL & FILTER TEST DAM NO LEAKS. T.D. White AIP 2329157
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
Aug. 1 st 1996				HRS: 409.2 ^h TSMOT: 94.3 ^h 86.9 ^{OKTH}
Done @ 401.2 ^h				(CHANGED OIL & FILTER) SERVICED PLUGS, CLEANED ALL FUEL SYSTEM SCREENS & INJECTOR ASSYS. CLEANED AIR FILTER, WASHED ENGINE, CK'D ALL HOSES for LEAKAGE AND SECURITY. CK'D ALL ENGINE CONTROLS for proper operation. Compression test as follows: #1 76/80 #2 76/80 #3 57/80 #4 76/80 #5 76/80 #6 76/80, CK'D WASH TUNING. C/W AN 100 ^h ANNUAL INSPECTION ITEMS per CESSNA SERVICE MANUAL THIS DATE.
				I CERTIFY THAT I HAVE INSPECTED THIS ENGINE IN ACCORDANCE WITH A 100 ^h INSPECTION AND DETERMINED IT TO BE IN AN AIRWORTHY CONDITION THIS DATE.
				T.D. Willis AIP 2329157.
None 1 st 1996				HRS: 409.2 ^h TSMOT: 94.3 ^h 86.9 ^{OKTH}
				CHECKED APPLICABLE AD NOTES thru 96-06.
				I CERTIFY THAT I HAVE INSPECTED THIS ENGINE IN ACCORDANCE WITH AN ANNUAL INSPECTION AND DETERMINED IT TO BE IN AN AIRWORTHY CONDITION THIS DATE.
				T.D. Willis AIP 2329157 IT.
9/4/96				TACH TIME 425.2 CHANGE OIL & FILTER T.T. 110.4 HRS <i>Frank Paul [Signature]</i> 1279270
1/22/97				TACH. TIME 449.6 TSMOT 134.8 CHANGE OIL & FILTER. OPEN FILTERS NO METAL 100W ACRO SHELL
				SUB-TOTALS this page <i>Frank Paul [Signature]</i>
				TOTALS—Carry forward to next page AIP 1279270

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
11-9-00		0283	0597	Changed oil 12 qt A7 10050 not compressed. Now CH48109 filter, cut open old filter OK. Cleaned + insp spark plugs. Adjusted idle speed + mixture. Installed new K9910299-3 LH Elbow and new K9910299-2 tail pipe and new gasket in exhaust. Cleaned exhaust areas, checked mag timing OK (comp #1 68/80 #2 70/80 #3 75/80 #4 68/80 #5 removed #6 68/80 #5 cyl removal + sent to Coronado for repair, same cyl installed with new rings. AD 76-02-07 gH due 0652. TW AD 2000-01-16 Exhaust (b)(c)(d)(e) visual insp and pressure test no defects found. (b) due 0647 (c) due 11-01 (d) due 1097 (e) due 11-01 (f) due 0783. Replaced missing hardware and adj alt air door slide, engine wash and general run up OK. FOOTHILL AIRCRAFT SALES & SERVICE, INC. CABLE AIRPORT, UPLAND, CALIF. 91786 FAA APPROVED REPAIR STATION I CERTIFY THAT THIS <u>Engine</u> HAS BEEN INSPECTED IN ACCORDANCE WITH <u>Annual</u> INSOR AND APPLICABLE RETURN TO SERVICE. OTHER DATA INSPECTION ARE ON FILE AT T W.O. NO. <u>4749</u> DATE <u>11-9-00</u> TAC <u>0597</u> TAC NO <u>3190</u> 0283 SMOH NAME <u>Paul R. Blythe</u>
3/8/01		615		oil change only
9/23/01		631		oil change + filter

DATE 2001 NOV 18 : REG'N NO. N55PP

TACH TIME: 634.2 : HOBBS MTR. _____

SMOH ENG: 319.2 : TOTAL TIME 1239.7

I certify that this AIRCRAFT Powon Puant
OPPSD Puant, was inspected in accordance with an ANNUAL ~~PROGRESSIVE TYPE~~ INSPECTION and has been determined to be in an AIRWORTHY CONDITION at this time and date. (2001 NOV 18)

Charles L. Roy
Charles L. "Roy" Downing (AGP-1/A 199226)

SUB-TOTALS this page

TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
6/3/02		659		oil change
7-10-02				Removal, cleaned, gapped + tested all spark plugs. Comp test 1/65 2/68 3/67 4/65 5/77 6/66
Hobbs	667.5			FOOTHILL AIRCRAFT SALES & SERVICE, INC. CABLE 91786 FAA A&P 14R052M WO# 6148 DATE 7-10-02 C 667.5 NAME <i>John Hobbs</i>

DATE: 12 09 02 : REG'N NO. N-55PPTACH TIME: 679.0 : HOBS MTR. 679.0TSMOH ENG: 3642 : TOTAL TIME: 1284.7I certify that this AIRCRAFT Pawn Plane

Recip Opps was inspected in accordance with an ANNUAL ~~INSPECTION~~ TYPE OF INSPECTION and has been determined to be in an AIRWORTHY CONDITION at this time and

date: (2002 Dec 09)

Charles L. "Roy" Downing
Charles L. "Roy" Downing A&P-I/A 18823

12-18-03	Hobbs	688		changed oil 12 qt AS 100w90 new CH481096. Head cut open old filter OK. Oil sample taken, washed engine. Inspected exhaust parts for leaks + defects. none noted. Comp # 157/80 rhy # 2 62/80 rhy # 3 69/80 # 4 68/80 rhy # 5 70/80 # 6 64/80. Engine ground run up OK.
				FOOTHILL AIRCRAFT SALES & SERVICE, INC. CABLE 91786 FAA A&P 14R052M WO# 7371 DATE 12-18-03 0688 NAME <i>John Hobbs</i>

SUB-TOTALS this page

TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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forward from previous page

Date: 2004 Jan 04Tach Time: 688 HrsEng TSOH: 373.2 HrsPrp TSOH: 850 HrsFAA Reg: N-55PPAfrn T/T: 688 HrsEng T/T: 1293.7 HrsPROP T/T: 850 Hrs3280 TT AFM
QED

This Recip-Opposed Aircraft Powerplant was inspected as defined under CFR - 14; Parts 43 & 91, along with all other applicable FARs, manufactures maintenance manuals and check-lists. Mags, Plugs, & Harness were inspected.

#1 /80; #2 /80; #3 /80; #4 /80; #5 /80; #6 /80; Added 12 Qts Avio 50 cc Oil. I CERTIFY THAT THIS

POWERPLANT WAS INSPECTED I/AW AN ANNUAL INSPECTION & HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION AT THIS TIME AND DATE:

2004 Jan 04

Charles L. Roy
Charles L. "Roy" Downing - I/A 1882364 w/ A & P

12-24-04	I certify that this engine has been inspected in accordance with a annual inspection and was found to be in a airworthy condition. Compression #1=72 2=76 3=68 4=72 5=72 6=65
hobbs=699.4	
TSMOH 384	Oil Change & filter. Complete exhaust inspection and exhaust pressure checks OK. Spark plugs cleaned and gapped. Timing checked at 20°
	Donald F. Allison
	A&P 1481667 I-A.
	1-800-962-7746

MAKE: Cessna
MODEL: 414
S/N: 414-0366
REG. NO: 55PP
WORK ORDER:
16239-01-2006



Howard Aviation, Inc.
Repair Station No. T03R874L
1401 Fairplex Drive
La Verne, CA 91750
Phone: 909-593-2596

DATE: 1/13/2006
A/C TSN:
HOBBS: 723.5

Airframe Entries

Removed all cover plates connectors to do pressurization check. Found numerous leaks on firewall wire bundles and antenna cover plate on belly at rear of fuselage & some working rivets on left of fuselage. Cleaned area on firewall wire bundles and prc'd wire bundles that were leaking. Made new cover plate for belly antenna hole, prc'd plate & riveted in place. Reconnected all hoses that were disconnected for testing system. Reinstalled all floor panels and seats & carpet in fuselage & reinstalled baggage compartment hoses and hardware back in place.... Replaced loose rivets on left lower wing root fairing.

The airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Howard Aviation, Inc. Inspection Manual and the Federal Aviation Regulations under which the operator is certified, and is approved for return to service as per those requirements. Pertinent details of the repair are on file at this Repair Station under Repair Order 16239-01-2006.

DATE: 1/13/2006

SIGNED: Rob Howard

Robin Howard
Certified Repair Station No. T03R874L

Work Order: 16239-01-2006

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
	4066			TOTALS brought forward from previous page
12-21-06	0743	0429		cleaned + gapped all spark plugs. check timing at comp #1 66/80 #2 69/80 #3 71/80 #4 65/80 #5 72/80 #6 68/80. CW AD 2000-01-16 (b-g) (b) due again hobbbs 0293. (C) due again 12-07. (d) due again 1243. (E) due again 12-07. (F) due again 1243 g due again 3243 on 12-2018. Installed knisly new "Y" collector, new multi v band clamp, engine washed and ground run up
FOOTHILL AIRCRAFT SALES & SERVICE, INC. CABLE AIRPORT — UPLAND, CALIF. 91786 FAA APPROVED REPAIR STATION A14R052M WO# <u>9635</u> DATE <u>12-21-06</u> Hobbbs <u>0743</u> NAME <u>Mike Hobbbs</u>				
Date: <u>2007 MAR 04</u> Reg'n No.: N- <u>55PP</u> Tach. Time: <u>744.6</u> Afrm T/T: <u>3336.6</u> Eng. TSOH: <u>735.6</u> Eng T/T: <u>735.6</u> Prop TSOH: <u>39.7</u> Prop T/T: <u>1351.3</u> *****				
This Air Vehicle Powerplant <u>RECIP OPSD</u> was inspected as defined under Title 14 CFR Parts 91 & 43, along with other applicable FARs, manufacturing maintenance manuals, charts and check lists. Mags; Plugs & Harnesses were inspected I/A/W all applicable Pubs. The AC 43.13-1B Chap 8; Para 8-14 required Compression Check #1, ___/80; #3, ___/80; #5, ___/80; #2, ___/80; #4, ___/80; #6, ___/80: And added ___ Qts of ___ Oil.				
I CERTIFY THAT THIS POWERPLANT HAS BEEN INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF AN ANNUAL INSPECTION and WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION and RETURNED TO SERVICE;				
<u>Charles L. Roy</u> Charles L. "Roy" Downing; I/A 1882364 w/A&P				
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		748.7	748.7	TOTALS brought forward from previous page
7/2/07		433.9		CHANGED OIL AND FILTER SERVICED WITH A\$100+ OIL WASHED DOWN ENGINE GRD. RUN WITH NO LEAKS NOTED.
				FOOTHILL AIRCRAFT SALES & SERVICE, INC. CABLE AIRPORT — UPLAND, CALIF. 91786 FAA APPROVED REPAIR STATION AJ4R052M
				WO# <u>9351</u> DATE <u>7/2/07</u> TAC _____
				NAME <u>Jim Wachs</u>
				CHANGED OIL AND FILTER SERVICED WITH A\$100W OIL WASHED DOWN ENGINE GRD RUN WITH NO LEAKS NOTED
				FOOTHILL AIRCRAFT SALES & SERVICE, INC. CABLE AIRPORT — UPLAND, CALIF. 91786 FAA APPROVED REPAIR STATION AJ4R052M
				WO# <u>9682</u> DATE <u>1-3-08</u> TAC <u>774.3</u>
				NAME <u>Jim Wachs</u>
				Date: <u>20 08 MAR 08</u> Reg'n No.: <u>N-557A</u>
				Tach. Time: <u>774.3</u> Afrm T/T: <u>3366.7</u>
				Eng. TSOH: <u>765.6</u> Eng T/T: <u>765.6</u>
				Prop TSOH: <u>69.7</u> Prop T/T: <u>1381.3</u>

				This Air Vehicle Powerplant _____ was inspected as defined under Title 14 CFR Parts 91 & 43, along with other applicable FARs, manufacturing maintenance manuals, charts and check lists. Mags; Plugs & Harnesses were inspected I/A/W all applicable Pubs. The AC 43.13-1B Chap 8; Para 8-14 required Compression Check #1, ___/80; #3, ___/80; #5, ___/80; #2, ___/80; #4, ___/80; #6, ___/80.
				And added ___ Qts of _____ Oil.
				I CERTIFY THAT THIS POWERPLANT HAS BEEN INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF AN ANNUAL INSPECTION and WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION and RETURNED TO SERVICE;
				R <u>Charles L. "Roy" Downing</u> Charles L. "Roy" Downing; I/A 1882364 w/A&P
				TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
				CHANGED OIL AND FILTER SERVICED
				WITH AS100W OIL. R/R #3 CYL.
				INTAKE GASKET WITH NEW, WASH
				DOWN ENGINE G/RD RUN WITH NO
				LEAKS NOTED
				FOOTHILL AIRCRAFT SALES & SERVICE, INC. CABLE AIRPORT — UPLAND, CALIF. 91786 FAA APPROVED REPAIR STATION AJ4R052M
				WO# 9999 DATE 8-13-08 TAC 783.6
				NAME <u>Jim Wade</u>
				Compression test #1 70/80 #2 64/80 ^E
				#3 71/80 #4 68/80 #5 72/80 #6 64/80
				cleaned & gapped all spark plugs
				FOOTHILL AIRCRAFT SALES & SERVICE, INC. CABLE AIRPORT - UPLAND, CA 91786 FAA APPROVED REPAIR STATION AJ4R052M
				WO# 10152 DATE 12-19-08 TAC 0793.7
				NAME <u>Mike Hts</u>
2009 Jun 07				Date: 2009 Jun 07 Tach Time: <u>799.3</u> Hrs Eng TSOH: <u>790.8</u> Hrs Prp TSOH: <u>94.9</u> Hrs
NOTICE ALL				FAA Reg: N- <u>55 AP</u> Afrn T/T: <u>1391.9</u> Hrs Eng T/T: <u>790.8</u> Hrs PROP T/T: <u>1406.5</u> Hrs
ENGINE AND PROPELLER				*****
TIMES SINCE NOW AND				This Air Vehicle <u>OPPOSED</u> Powerplant was
OVERHAUL HAS BEEN				inspected as defined under Title 14 CFR - Parts 91 & 43, along
RECALCULATED AND				with other applicable FARs, manufactures maintenance manuals,
CORRECTION TO THE 2004				charts and check-lists. Mags, Plugs & Harness were inspected.
ANNUAL RECORDING AT.				AC 43.13 - 1B; Chap. 8; Para. 8 - 14: as required Compression
RIGHT 1A 1882364 w/ASP				Check: #1 71/80; #3 71/80; #5 71/80; #7 180; #9 180
CHUCK L ROY W				#2 180; #4 180; #6 180; #8 180
CHARLES L ROY DOWNING				also added: <u>Qts 100 SHELL 100</u> Oil.
				I CERTIFY THAT THIS POWERPLANT WAS INSPECTED I/A/W
				REQUIREMENTS OF AN ANNUAL INSPECTION AND HAS
				BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION
				AND RETURNED TO SERVICE at this time and date
				<u>Charles L Roy</u>
				Charles L. "Roy" Downing - I/A 1882364 w/ A&P
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

N55PP

Tom's Aircraft

Phone 1-562-426-5331

DATE 09/20/2013

414

Maintenance Inc

FAX 1-562-426 1052

HOBBS 874.6

4140366

2641 E Spring Street * Long Beach Int'l Airport * Long Beach, CA 90806

WO#13S-18527

AIRFRAME LOG ENTRY

- # 1 INSTALLED A NEW INSTURMENT AIR FILTER, PN# AM103534IA
 # 2 INSTALLED A NEW NOSE CABIN PRESSURE DUCT PN# 5117257-2
 # 3 INSTALLED A NEW RECIVER DRYER, EXPANSION VALVE, SERVICED THE AC SYSTEM WITH FREON.
 # 4 INSTALLED AN OVERHAULED RH FUEL PUMP, PN# 646210-11A1
 # 5 INSTALLED A SERVICABLE TAKE OFF REGULATOR, PN# 642100-5/6
 # CW SID97-3 AND SET UP ENGINE FUEL FLOW PRESSURES

FRANCIS SALISBURY

FAA REPAIR STATION VTMR569K

ENGINE MODEL:
TSIO-520-N
ENGINE S/N (R):
R-218738-R
REG. NO: 55PP
WORK ORDER:
14731-12-2013

Foothill Aircraft Sales & Service, Inc.

Repair Station No. AJ4R052M
1749 W 13Th St
Upland, CA 91786
Phone: 909-985-1977

DATE: 12/5/2013
A/C TSN: 3475
ENG TT (R): 567.6
TSMOH (R): 567.6
HOBBS: 882.4

Right Engine Entries

(2) CHANGED OIL, AND FILTER, TOOK OIL SAMPLE. SERVICED WITH AS 100w OIL. WASH DOWN ENGINE, GRD. RUN NO LEAKS NOTED.

Maintenance Release

I certify that the ENGINE in 55PP was repaired in accordance with the manufactoures maintenance manual and current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 14731-12-2013, Dated 12/5/2013.

DATE: 12/5/2013

SIGNED:

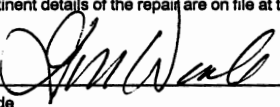
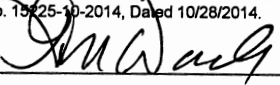
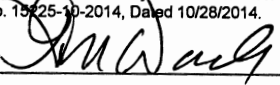
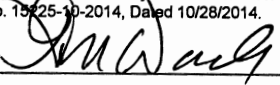
Work Order: 14731-12-2013

Don Wade
Certified Repair Station No. AJ4R052M

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1 of 1

SUB-TOTALS this page**TOTALS**—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
ENGINE MODEL: TSIO-520-N ENGINE S/N (R): R-218736-R REG. NO: 55PP WORK ORDER: 14877-03-2014 Foothill Aircraft Sales & Service, Inc. Repair Station No. AJ4R052M 1749 W 13Th St Upland, CA 91786 Phone: 909-985-1977 DATE: 3/14/2014 A/C TSN: 3480 ENG TT (R): 572.6 TSMOH (R): 572.6 HOBS: 887.4				
Right Engine Entries (3) C/W ANNUAL/100 HR INSPECTION ON THIS ENGINE I.A.W FAR 43 APPENDIX D USING CESSNA M.M CHAPTER 5 INSPECTION CHECKLIST AS A GUIDE. CHECKED MAG TO ENGINE TIMING, CLEANED, RE-GAPPED AND CHECKED SPARK PLUGS. PERFORMED COMPRESSION CHECK: 62, 68, 70, 66, 70, 66/80. ENG WAS GROUND RUN AND LEAKED CHECKED OK.... (8) REMOVED AND REPLACE TURBO WITH OVERHAULED TURBO P/N 407810-9001 SERIAL NUMBER BC037999.				
Maintenance Release I certify that the Engine and/or component(s) on 55PP was repaired and inspected in accordance with a Annual/100HR. Inspection per the manufactures maintenance manual and current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 14877-03-2014, Dated 3/14/2014.				
DATE: 3/14/2014 SIGNED:  Don Wade Certified Repair Station No. AJ4R052M Work Order: 14877-03-2014 Printed by EBis 3 (datcomedia.com)				
1 of 1				
ENGINE MODEL: TSIO-520-N ENGINE S/N (R): R-218736-R REG. NO: 55PP WORK ORDER: 15225-10-2014 Foothill Aircraft Sales & Service, Inc. Repair Station No. AJ4R052M 1749 W 13Th St Upland, CA 91786 Phone: 909-985-1977 DATE: 10/28/2014 A/C TSN: 3485 ENG TT (R): 577.6 TSMOH (R): 577.6 HOBS: 892.4				
Right Engine Entries (2) CHANGED ENGINE OIL AND FILTER AND SERVICED WITH 12 QTS OF A/S 100W AND A NEW CH48108-1 FILTER. OLD FILTER WAS CHECKED FOR CONTAMINATION. NONE FOUND. ENG WAS GROUND RUN AND LEAKED CHECKED OK.				
Maintenance Release I certify that the ENGINE in 55PP was repaired in accordance with the manufactoures maintenance manual and current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 15225-10-2014, Dated 10/28/2014.				
DATE: 10/28/2014 SIGNED:  Don Wade Certified Repair Station No. AJ4R052M Work Order: 15225-10-2014 Printed by EBis 3 (datcomedia.com)				
1 of 1				
ENGINE MODEL: TSIO-520-N ENGINE S/N (R): R-218736-R REG. NO: 55PP WORK ORDER: 15225-10-2014 Foothill Aircraft Sales & Service, Inc. Repair Station No. AJ4R052M 1749 W 13Th St Upland, CA 91786 Phone: 909-985-1977 DATE: 10/28/2014 A/C TSN: 3485 ENG TT (R): 577.6 TSMOH (R): 577.6 HOBS: 892.4				
Right Engine Entries (2) CHANGED ENGINE OIL AND FILTER AND SERVICED WITH 12 QTS OF A/S 100W AND A NEW CH48108-1 FILTER. OLD FILTER WAS CHECKED FOR CONTAMINATION. NONE FOUND. ENG WAS GROUND RUN AND LEAKED CHECKED OK.				
Maintenance Release I certify that the ENGINE in 55PP was repaired in accordance with the manufactoures maintenance manual and current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 15225-10-2014, Dated 10/28/2014.				
DATE: 10/28/2014 SIGNED:  Don Wade Certified Repair Station No. AJ4R052M Work Order: 15225-10-2014 Printed by EBis 3 (datcomedia.com)				
1 of 1				
ENGINE MODEL: TSIO-520-N ENGINE S/N (R): R-218736-R REG. NO: 55PP WORK ORDER: 15225-10-2014 Foothill Aircraft Sales & Service, Inc. Repair Station No. AJ4R052M 1749 W 13Th St Upland, CA 91786 Phone: 909-985-1977 DATE: 10/28/2014 A/C TSN: 3485 ENG TT (R): 577.6 TSMOH (R): 577.6 HOBS: 892.4				
Right Engine Entries (2) CHANGED ENGINE OIL AND FILTER AND SERVICED WITH 12 QTS OF A/S 100W AND A NEW CH48108-1 FILTER. OLD FILTER WAS CHECKED FOR CONTAMINATION. NONE FOUND. ENG WAS GROUND RUN AND LEAKED CHECKED OK.				
Maintenance Release I certify that the ENGINE in 55PP was repaired in accordance with the manufactoures maintenance manual and current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 15225-10-2014, Dated 10/28/2014.				
DATE: 10/28/2014 SIGNED:  Don Wade Certified Repair Station No. AJ4R052M Work Order: 15225-10-2014 Printed by EBis 3 (datcomedia.com)				
1 of 1				
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				TOTALS —Carry forward to next page

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[illegible]

RX Aviation • PO Box 3635 • Jurupa Valley, CA 92519 • 951-847-6669

N55PP

Hobbs: 959.0

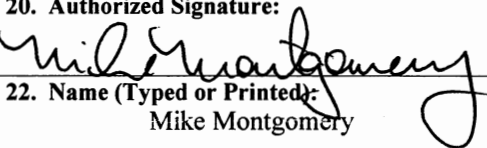
Continental, TSIO-580-NB, S/N: 266530-R
TTSN: 645.0

April 2, 2019

1. Performed annual inspection on right engine IAW FAR 43, Appendix D. Ran engine to check for normal operation, no abnormalities found. Performed differential compression check, #1:66/80, #2:60/80, #3:62/80, #4 58/80, #5: 63/80, #6:63/80. Removed engine cowling and drained oil from crankcase and removed oil filter. Removed spark plugs, cleaned and inspected plugs, set gap to .019". Adjusted timing of left magnetos to 20 degrees, right mag properly set at 20 degrees. Rotated and reinstalled spark plugs with new gaskets. Added 11 quarts of w100 to engine, installed new oil filter. Ran engine to test for normal operation and leaks, no abnormalities noted. Installed (1) AN900-10 - Crush Gasket, ID:0.6250", Installed (12) UM674 - Gasket, Spark Plug, Installed (1) CH48108-1 - Oil Filter.
2. Removed injectors and upper-deck reference tubes. Ultrasonically cleaned injectors and reference tubes, inspected all parts, no abnormalities noted.
3. Reinstalled fuel injectors in RH engine IAW Continental manual FI-2. Replaced all o-rings and seals, torqued injectors to 60 in lbs, torqued fuel lines to 45 in lbs. Installed (12) 630979-9 - O-Ring, Installed (6) 633958-3 - Seal, Installed (6) 628556 - Washer, Installed (6) 640612 - Washer. Rubber.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with RX Aviation under work order: WO 1141.

Kevin Kane A&P 3533701IA

Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 64117	
4. Organization Name and Address: RAM AIRCRAFT LIMITED PARTNERSHIP 7505 KARL MAY DRIVE WACO, TEXAS 76708 (VA1R551K)						5. Work Order/Contract/Invoice Number: 64117	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	AIRESEARCH TURBO CONTROLLER end	470836-9018 end	N/A end	1 end	WHL0106 end	OVERHAULED end	
13. Remarks: Overhauled I/A/W 400999-0000, and applicable RAM Aircraft STC O. H. Manual Supplements. "Certifies that the work specified in Block 12/13 was carried out in accordance with EASA Part 145 and with respect to that work the aircraft component is considered ready for release to service under EASA PART-145 Approval Certificate Number EASA.145.5208." end							
14. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in Block 13.				19. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature:		21. Approval/Certificate No.:	
				 Mike Montgomery		VA1R551K	
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name (Typed or Printed):		23. Date :	
						July 14, 2011	
User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the use/installer performs work in accordance with the national regulations of an airworthiness authority different then the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							