Aircraft Record General Information

Manufacturer CESSNA **Model** 177B

Serial 17702278 **Registration Number** N35230

Date of Manufacture Changed to N3523Q

Engine(s) currently installed:

Manufacturer **Model**

HUB Model **Serial** **Serial**

Blade Model **Serial** **Serial** **Serial**

Blade Model **Serial** **Serial** **Serial**

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 Technician or Repair Facility. (*See* back pages for other specific entries.)

DATE:12/02/1993 TACH:1607.3 1778 CESSNA R35230 S/N:17782278 T.T.:1607.3 W/O # 15800

I certify that this airframe has been inspected in accordance with an **ANNUAL INSPECTION** per Cessna Service Manual and Jet Air, Inc. forms. Removed all inspection covers, panels, cabin interior, and engine cowling. Checked electrical systems and harnesses. Checked interior and exterior lights. Removed battery, serviced, charged, cleaned battery box, and reinstalled battery. Checked wings, fuselage, and empennage. Sumped all fuel drains and cleaned fuel filter an bowl. Checked lines, tubing, and hoses. Checked and lubricated flight controls. Checked and set cable tensions. Checked and set flight controls travel. Checked cabin interior and loose equipment. Checked doors and seals. Checked windows and instrument panel. Checked seats and seat rails. Checked and lubricated engine and propeller controls. Checked and lubricated landing gear. Checked tires, brakes, and repacked wheel bearings. Serviced brake syuten. Installed new vacuum filter P/N:83-5-1. Installed new suction filter P/N:D9-14-5. Pitot/ Static/ Altimeter/ Transponder E.A.R. testing due NOV/1994. E.L.T. battery change due JUN/1995. Vacuum filter P/N:83-5-1 next change due tach:1707.3. Suction filter P/N:D9-14-5 next change due tach:2009.7. Compression tests found all cylinders above 70/80. A.D. 84-26-02 installation of new induction air filter P/N:AM10763SP2, next change due tach:2009.7. C/W A.D. 87-20-03R2 by visual inspection and measuring of seat rails and seat flanges, all found to be serviceable, next inspection due tach:1707.3. C/W A.D. 86-19-11 by sumping all fuel drains, next compliance due at pre-flight. A.D. 78-09-07R3 magneto impulse coupling inspection due tach:1956.0. C/W A.D. 76-07-12 by functional testing of ignition switch, found to operate normal, next testing due tach:1707.3. Washed engine and performed engine run-up, no leaks noted. Installed all inspection covers, panels, cabin interior, and engine cowling.

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 Technician or Repair Facility. (*See* back pages for other specific entries.)

DATE:12/02/1993 TACH:1607.3 177B CESSNA N35230 S/N:17702278 T.T.:1607.3 W/O # 15800

And have found this airframe to be in an airworthy condition as of this date.

I certify this AIRFRAME has been inspected in accordance with an ANNUAL inspection and was determined to be in airworthy condition as of this date.

Signed Robert Ackerman

Date 12/2/93 W.O. No. 15800

Tach 1607 Total Time 1607

JET AIR, INC.

FAA Certified Repair Station CRS #JAFR110F

Galesburg, Illinois 61401

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 Technician or Repair Facility. (*See* back pages for other specific entries.)
				DATE:01/13/1994 TACH:1656.8 177B CESSNA 835230 S/N:17702278 T.T.:1656.8 W/O # 15991

I certify that this airframe has been inspected in accordance with an **50 HOUR INSPECTION** per Cessna Service Manual and Jet Air, Inc. forms. Removed inspection covers, panels, and engine cowling. Checked electrical systems and harnesses. Checked interior and exterior lights. Removed battery, serviced, charged, cleaned battery box, and reinstalled battery. Checked wings, fuselage, and empennage. Checked lines, tubing, and hoses. Checked and lubricated flight controls. Checked cabin interior and loose equipment. Checked doors and seals. Checked windows and instrument panel. Checked seats and seat rails. Checked and lubricated engine and propeller controls. Sumped all fuel drains. Checked landing gear, tires, and brakes. **Compression tests found all cylinders above 70/80. Pitot/ Static/ Altimeter/ Transponder F.A.R. testing due NOV/1994. E.L.T. battery change due JUN/1995. Vacuum filter P/N:B3-5-1 next change due tach:1707.3. Suction filter P/N:D9-14-5 next change due tach:2009.7.** A.D. 84-26-02 installation of new induction air filter P/N:AH107635FP, next change due tach:2009.7. A.D. 87-20-03R2 visual inspection and measuring of seat rails and seat flanges, next inspection due tach:1707.3. A.D. 78-09-07R3 magneto impulse coupling inspection due tach:1956.0. A.D. 76-07-12 functional testing of ignition switch, next testing due tach:1709.3. C/W A.D. 86-19-11 by sumping all fuel drains, next compliance due at pre-flight. Washed engine and performed engine run-up, no leaks noted. Installed all inspection covers, panels, and engine cowling. And have found this airframe to be in an airworthy condition as of this date.

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 Technician or Repair Facility. (*See* back pages for other specific entries.)
				DATE:01/13/1994 TACH:1656.8 177B CESSNA N35230 S/N:17702278 T.T.:1656.8 W/O # 15991

I certify this AIRFRAME has been inspected
in accordance with an 50 HR Inspection
and was determined to be in airworthy condition
as of this date.
Signed Robert Bauer
Date 1/13/94 W.O. No. 15991
Tach 1656 Total Time 1656
JET AIR, INC.
FAA Certified Repair Station CRS #JAFR110F
Galesburg, Illinois 61401

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
19 94 1-28	1666.5			

I certify that the altimeter, static system, transponder and altitude reporter test required by FARs 91.411, 91.413 & 91.217 have been performed and found to be within the limits of FAR 43 appendices E & F and AC 43.6a.

TESTED TO 20 Kt.

Altimeter Model SX 34AA-56 #1 S/N E2326 #2 S/N

Transponder Model KT76A #1 S/N 31687 #2 S/N

Altitude Reporter Apollo #1 S/N 5750 #2 S/N

Signed [signature] Date 1-28-94

STC Aviation Inc., St. Cloud, MN 56304
CRS BDKR393C

Installed 2000/ GPS + Narco Encoder removed B&K Encoder

MAINTENANCE RELEASE

The component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repairs are on file at this Repair Station under work order [illegible] Date 1-28-94

DATE 19 94	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 Technician or Repair Facility. (*See* back pages for other specific entries.)
1/26			16665	Hrs. Hobbs Installed New LEFT MAIN TIRE + Greased Bearings.

MAINTENANCE RELEASE

The component identified was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repairs are on file at this Repair Station under work order 10974/10959, Date 1-26-94, Signature Brian A Stai, Type of Certificate/Number 2247647 for CRS BDKR393C, STC Aviation, Inc., St. Cloud, MN 56302.

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 Technician or Repair Facility. (*See* back pages for other specific entries.)

A/C Model Cessna 177B

S/N 17702278

Reg. No. N35230

Eng. Mod. -0-

Cycles -0-

GIBBS SERVICE CENTER

Montgomery Field, San Diego, CA 92123
FAA Approved Repair Station #VT3R931L

Date 2-23-94

W.O. # 15169

Eng. S/N -0-

R/H Engine -0-

Eng. S/N -0-

L/H Engine -0-

TACH 1682.4

AirFrame 1682.4

The aircraft and/or component identified above repaired/replaced and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the Repair/Replacement are on file at this agency under Order No. 15169

Date 2-23-94 Signed JEFF RUNYON

Replaced Pilots side cabin door stop.

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 Technician or Repair Facility. (*See* back pages for other specific entries.)

A/C Model Cessna 177B

S/N 17702278

Reg. No. 35230

GIBBS SERVICE CENTER

Montgomery Field, San Diego, CA 92123
FAA Approved Repair Station #VT3R931L

Date 5-23-94

W.O. # 15304

Eng. Mod. -0- Eng. S/N -0- Eng. S/N -0- TACH 1685.4

Cycles -0- R/H Engine -0- L/H Engine -0- AirFrame -0-

The aircraft and/or component identified above repaired/replaced and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the Repair/Replacement are on file at this agency under Order No. 15304

Date 5-23-94 Signed [signature]

Removed attitude gyro model RCA 21-14, S/N 17587. Replaced with new attitude gyro, Sigma Tech model 5000B-36, P/N 23-501-06-16, S/N T64027J. Function check ok.

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 Technician or Repair Facility. (*See* back pages for other specific entries.)

A/C Model Cessna 177B

S/N 17702278

Reg. No. N35230

Eng. Mod. -0- Eng. S/N -0- Eng. S/N -0-

Cycles -0- R/H Engine -0- L/H Engine -0-

GIBBS SERVICE CENTER
Montgomery Field, San Diego, CA 92123
FAA Approved Repair Station #VT3R931L

Date 7-15-94

W.O. # 15362

TACH 1690.6

AirFrame 1690.6

The aircraft and/or component identified above repaired/replaced and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the Repair/Replacement are on file at this agency under Order No. 15362

Date 7-15-94 Signed JEFF RUNYON 3 INSP

Installed O/H alternator, S/N 4060569. Serviced and charged aircraft battery. Repaired hour meter system. Repaired underwing / courtsey light system. Serviced NLG strut with fluid and air. Replaced avionics cooling duct. Serviced tires.

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 Technician or Repair Facility. (*See* back pages for other specific entries.)

A/C Model Cessna 177B

S/N 17702278

Reg. No. N35230

GIBBS SERVICE CENTER
Montgomery Field, San Diego, CA 92123
FAA Approved Repair Station #VT3R931L

Date 12-07-94

W.O. # 22739

Eng. Mod. — Eng. S/N — Eng. S/N — TACH 1699.3

Cycles — R/H Engine — L/H Engine — AirFrame —

The aircraft and/or component identified above repaired/replaced and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the Repair/Replacement are on file at this agency under Order No. 22739

Date 12-07-94 Signed Don Dardé

Removed and replaced DG with overhauled exchange DG, Sigma-Tech Model 4000B-30, S/N T26214E.

1-3-95	1701.2			Removed NAV/COM 1 and installed MK-12D
			Cessna	nav/com. See 337 this date for details.

A/C Model Cessna 177B

S/N 17702278

Reg. No. N35230

Eng. Mod. -0- Eng. S/N -0- Eng. S/N -0-

Cycles -0- R/H Engine -0- L/H Engine -0-

GIBBS SERVICE CENTER

Montgomery Field, San Diego, CA 92123
FAA Approved Repair Station #VT3R931L

Date 1-16-95

W.O. # 15534

TACH 1701.2

AirFrame 1701.2

The aircraft and/or component identified above repaired/replaced and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the Repair/Replacement are on file at this agency under Order No. 15534

Date 1-16-95 Signed JEFF HUNYON

J INSP

Annual Inspection Completed this date. Lubricated all engine controls. Replaced all inst. air filters. Resecured loose TXP-DME racks under inst. panel. Replaced incorrect rivets @ F.S. 75.5 under floor and FWD doorposts, both sides. Reinstalled clock S/N 20152. Retorqued both stabilator hinge bolts & saftied. Resaftied rudder cable ends and installed rudder bonding strap. Saftied wing flap "DN" cable @ transmission. Uncrossed L/wing aileron cables, rigged ailerons I/A/W C177B Maint Manual. Drained vent & header lines. Serviced battery. Replaced R/brake pads. Packed all wheel bearings. C/W AD78-09-07R3 Bendix Impulse coupling. Ref to engine logbook. C/W AD84-26-02 induction air filter by inspection and cleaning. Next replacement due @ 2009. C/W AD86-19-11 fuel contamination by draining all sumps. Due ea. preflight. C/W AD87-20-03R2 seat and rail insp. No defects noted. Next due @ 1-96 or 1801. C/W AD93-05-06

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 Technician or Repair Facility. (*See* back pages for other specific entries.)

A/C Model Cessna 177B

S/N 17702278

Reg. No. N35230

Eng. Mod. -0-

Cycles -0-

GIBBS SERVICE CENTER
Montgomery Field, San Diego, CA 92123
FAA Approved Repair Station #VT3R931L

Date 1-16-95

W.O. # 15534

Eng. S/N -0-

R/H Engine -0-

Eng. S/N -0-

L/H Engine -0-

TACH 1701.2

AirFrame 1701.2

The aircraft and/or component identified above repaired/replaced and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the Repair/Replacement are on file at this agency under Order No. 15534

Date 1-16-95 Signed JEFF RUNYON 3 INSP

Next switch lube due @ 3701.0 Hrs. Annual Inspection Completed this date.

I certify that the ELT has been inspected in accordance with the requirements of FAR 91.207(d), and was found to be in satisfactory condition.

ELT LM-ELT6 S/N 44689

Aircraft Make Cessna Model 177B Reg. 3543P

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 Technician or Repair Facility. (*See* back pages for other specific entries.)

A/C Model Cessna 177B

S/N 17702278

Reg. No. N35230

Eng. Mod. -0-

Cycles -0-

GIBBS SERVICE CENTER

Montgomery Field, San Diego, CA 92123
FAA Approved Repair Station #VT3R931L

Date 3-17-95

W.O. # 15625

Eng. S/N -0-

R/H Engine -0-

Eng. S/N -0-

L/H Engine -0-

TACH 1709.5

AirFrame -0-

The aircraft and/or component identified above repaired/replaced and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the Repair/Replacement are on file at this agency under Order No. 15625

Date 3-17-95 Signed _____

Removed D.G., S/N T26214E, installed O/H unit, S/N 81296E. Swung compass at MYF compass rose.

Date 3-16-96 Tach/~~Hr. Meter~~ 1751.5 Total Time 1751.5 Performed routine maintenance and lubrication as per CESSNA service manual. ~~Inspected I.A.W. 's part 135 operations specifications manual the ELT, Fire Extinguisher, Floatation Gear, and Pyrotechnic signaling device.~~

C/W AD 87-20-03 By INSP OF SEAT RAILS Next Due At 1851.5 OR 3/97

C/W AD ____ By ____ Next Due At ____

C/W AD ____ By ____ Next Due At ____

SERVICED BATTERY BRAKES, +SHIMMY DAMP. - CHECK FUEL STRAINERS, REPLACED CARB HEAT CABLE, ADJUSTED CABIN HEAT CABLE, LUBED DOOR LATCHES REPLACED 5 COWL MOUNTS. TIGHTEN RIVETS ON LOWER COWL + PATCH LOWER COWL

I certify that this aircraft has been inspected in accordance with AN ANNUAL inspection and has been determined to be in airworthy condition.

Name Dave Gieschelberger Certificate Number 471906828 IA

3-16-96		REPLACED ELT BATTERY WITH NEW, NOW DUE SEP. 97 ELT INSPECTED AND CHECKED (FAR 91.207) AND WAS FOUND TO BE IN SATISFACTORY CONDITION
TACH	1751.5	D—Gieschelberger
TOTAL	1751.5	471906828 A+P

DATE 19 96	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 Technician or Repair Facility. (*See* back pages for other specific entries.)
3-19	17523			Rig rudder and rudder trim systems per Cessna Service manual. All turnbarrels resafetied and operation check ok Thom J Wek A+P 471847350
3-20	17523			I certify that the altimeter, static system, transponder and altitude reporter test required by FARs 91.411, 91.413 & 91.217 have been performed and found to be within the limits of FAR 43 appendices E & F and AC 43.6a. TESTED TO 18 Kft. Altimeter Model _____ #1 S/N _____ #2 S/N _____ Transponder Model _____ #1 S/N _____ #2 S/N _____ Altitude Reporter _____ #1 S/N _____ #2 S/N _____ Signed Lon Baker Date 3-20-96 STC Aviation Inc., St. Cloud, MN 56304

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 Technician or Repair Facility. (*See* back pages for other specific entries.)
4-3-97			1958.8	Performed annual inspection - IAW check List. Replaced ELT battery - next due May 99, C/W AD 87-20-03 seat tracks. Replaced all 3 tires and tubes, greased all bearings, Replaced brake pads both mains, Serviced shimmy Dampner, Repaired marker Beacon support Rod. C/W AD 96-12-07 impulse Coupling insp. next Due 2458.8 hrs. Ground Run Leak and Ops Checked - Good.

I certify that this AIRCRAFT has been inspected in accordance with a Annual inspection and is determined to be in an airworthy condition. Pertinent details of the repair are on file at this Repair Station under work order No. 6735 Tach time ~~1~~ Total time 1758.8
Date 4-3-97 Signed [signature]

HEARTLAND AVIATION, INC.
3800 STARR AVENUE, SUITE 1
EAU CLAIRE, WI 54703-0567

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
19 98				

1-20

FLYTELINE SERVICES, INC. - FAA Certified Repair Station FYPR626B
Airlake Airport, 22100 Hamburg Avenue, Lakeville, MN 55044 (612) 469-4414

Item	Make	Model	S/N
Altimeter #1	United	5934 PA-56	F2326
Altimeter #2			
Encoder #1	Apollo	428-2003	5780
Encoder #2			
Transponder #1	King	KT76A	31087
Transponder #2			

I certify that the altimeter system & ATC transponder tests & inspections are in compliance with and have been performed per Appendix E & F of FAR Part 43.

Signature of Authorized Inspector: [signature]

Date: 1-20-98 Certified To (Feet): 20,000 Work Order #: 3416s

DATE 19 98	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 Technician or Repair Facility. (*See* back pages for other specific entries.)
4/27/98	2172.2		2172.2	Removed inspection panels, lubed controll surface hinge points and pulleys. Installed new O rings in shimmy dampener, serviced shimmy dampener with 88 cc 5606, Replaced left nav light, replaced landing light. Checked AD Through Bi Weekly 98-07 (see list in rear of aircraft log and AD compliance report) I certify that this aircraft has been inspected according to an annual insp and is in airworthy condition at this time Richard Nerlins 1992283 IA

RAPCO™ inc.
REPLACEMENT AIRCRAFT PARTS CO.
HARTLAND, WI MADE IN USA

Air Filter

Changed at:	Next Change
2172 Hrs.	_____ Hrs.
Date 4/27/98	

DATE 19 99	RECORDING TACH TIME	TOTAL FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
5/1/99	2303			Removed inspection pannels, lubed pulleys and control surface hinge points. Replaced battery in clock, Replaced taxi light bulb. Replaced air filter element. Checked ELT and found it to be inoperative, placed placard on inst pannel, Checked AD's through Bi weekly 99-08 (see list in rear of airframe log.)
		See 337 dated 5/2/98 for Bracket filter		
		Replaced ELT after repair		
				I certify that this aircraft has been inspected according to an annual insp and is in airworthy condition at this time. Richard Harding

DATE 19 99	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 Technician or Repair Facility. (*See* back pages for other specific entries.)
7-8-99	2344			RIGHT MAIN TIRE REPLACED HBuston CFI 1718685
6/6/00	2489			JUNE 5 2000 TACK TIME 2489 ANNUAL INSPECTION COMPLETTED IN ACCORDANCE WITH FAR 43 APPENDIX D, REMOVED INSPECTION PANNEL S, LUBED CONTROL SURFACE HINGE POINTS AND PULLYS, REPLACED BRAKE LININGS, REPLACED BOLT IN ALTERNATOR BRACKET, REPLACED LANDING LIGHT BULB, REPAIRED RUDDER TRIM, REPLACED SPRING ON PILOTS DOOR, ADDED FLUID TO BRAKE RESIVOR, .CHECKED Ads THROUGH BI WEEKLY 2000-10, (SEE LIST IN REAR OF AIRFRAME LOG). PREFORMED ALL NORMAL MAINTANCE. THE AIRCRAFT WAS RELEASED FOR SERVICE. RICHARD NERLING 1992283 IA Richard Nerling

DATE 2001	RECORDED TACH TIME	TENTH'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
6-28	2686.0		2686.0	Annual inspection Completed this date Controls lubed & Pulleys Checked & Hinge pins & lubed Electric system Checked. Battery Serviced And Cables Cleaned. E & T Battery Checked Nose Wheel and Brakes Checked. New tires installed P.D. Notes located Checked. 87.20-03 Checked OK Seat track ALL CYL. TESTED OVER 70 Annual June 28, 2001 T. T. 2686.0 David Workman

DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Descriptic** Entries must … Technician or Repair Facility. (*See* back pages for other specific entries.)
4-4-02	TACH Reads 2791.3			
	Removed Propeller and D.A.L checked Flange-Faced OKay. Installed Overhauled Propeller Model B2D34C211, Serial No. 743458. Ground Run For leaks and Performance. Aircraft Safe For Ferry Flight From Hayward WI TO Oshkosh WI For Repairs. See FAA Special Flight Permit DATED 4-3-2002			Steve A. Mapes A&P 471780408 IA
				– END –

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 Technician or Repair Facility. (See back pages for other specific entries.)
7-16-02	2792.8		2792.8	Annual inspection completed this time and date in conjunction with repairs made to nose and firewall - refer to FAA form 337 dated 7-16-02 for details of the repairs. Engine re-installed following tear-down inspection by Poplar Grove Aviation - refer to engine log for details. Installed overhauled propeller by ~~Hartzell~~ Executive Propeller. Installed serviceable nose gear fork and repaired Shimmy dampener. Removed Horiz. Stab. and installed with new bolts and bushings. Repaired Rt Stab. tip and both wing tips - cracks. Cleaned battery box & unplugged drain tube. Re-established ground on Rt strobe light. Installed new brake linings on Rt side. Installed new vac. air filter and reg. filter. Inspected and lubed, as required, all control surfaces, cables, pulleys,

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DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
				cont'd.
7-16-02	2792.8			ballcranks and hinges. Serviced aircraft battery, brakes, tires and wheel bearings. Drained sumps and cleaned main fuel strainer. Installed new windows on LH cabin door. Opt checked ELT - battery next due 7/03. C/W AD 87-20-03R2 (seats/ seat tracks). ADs C/W through 2002-14.
				I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND DETERMINED TO BE IN AIRWORTHY CONDITION. Steve C. Myers RP47180408IA
				END
8/7/02				Remove old battery, install new battery

19	TACH TIME	FLIGHT	TIME IN SERVICE	Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
7/25/03				

7/25/03, Tack time 2858 Total time 2858 Annual inspection completed according to FAR. 43 Appendix D. Removed inspection panels, lubed control surface hinge points and pullys. Replaced ELT battery, Checked ELT according to FAR 91.207. Replaced missing dutz fasteners as necessary, replaced one receptical. Replaced landing light bulb. Preformed all normal maintenane Checked AD's through Bi weekly 2003-14 (see AD list in the rear of the aircraft logbook). The aircraft was test run on the ground and released for service.

Richard Nerling

Richard Nerling 1992283 IA

I certify that the altimeter, static system, transponder and altitude reporter test required by FARs 91.411 & 91.413 have been performed and found to be within the limits of FAR43 Appendixes E & F.

Aircraft tested to 20,000 ft. N# 35230

Tach/Hobbs time: 2427.3

Altimeter Model #1 Kentad 5134PA-5C S/N 2326 Model #2 — S/N —

Transponder Model #1 King KT76A S/N 31087 Model #2 — S/N —

Altitude Reporter#1 Apollo 420 2003 S/N 5780 Model #2 — S/N —

Signed [signature] Date 8/2/04

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Top Flight Avionics, LLC Boyceville, WI 54829

CRS # T53R1530

DATE 19____	RECORDING TACH TIME	FLIGHT	TIME IN SERVICE	Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
8/24/04				8/24/04 TACK TIME 2922.4 2922.4 Total time Annual inspection completed in accordance with FAR 43 appendix D. Checked ELT according to FAR 91.207. Lubed all control surface hinge points and pullys. Replaced Left wing nav. light bulb. Replaced mag switch with origional part. Replaced dutz fasteners as necessary. Preformed all normal maintinance. Complied with all recurring AD notes. Checked Ads through Bi weekly 2004.16 (see AD list in the rear of the aircraft log.) the aircraft was test run and released for service. Richard Nerling 1992283 IA Richard Nerling
				N3523Q **June 30, 2005** **Tach time:** 2947.3 TACH Removed Horizon for overhaul, see attached 8130 for return to service. Removed Apollo 2000NMS GPS receiver for factory updates and internal battery replacement. Ground tested systems with no problems. Richard Nerling Richard Nerling

DATE 19____	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspection, Maintenance, Alteration or Repair Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)	19__
				9/14/05, TACK TIME 2958.7 TOTAL TIME 2958.7 An annual inspection was completed according to FAR 43.Appendix D. Lubed control system pulleys and control surface pivot points. Replaced ELT battery (expires 9/07, Checked ELT according to FAR 91.207 Preformed all normal maintenance. Checked AD's through Bi weekly 2005-17. (see AD list in the rear of the airframe logbook.) The aircraft was test run on the ground and returned to service I certify that this Aircraft has been inspected in accordance with Annual inspection and was determined to be in airworthy condition. Richard Nerving Richard Nerving 1992283 IA	
6/17/06				Installed new G-35 battery	

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 Technician or Repair Facility. (*See* back pages for other specific entries.)
				N3523Q SN NO. 17702278 10/12/06 TACK TIME 2995.9 TOTAL TIME 2995.9 Annual inspection completed in accordance with FAR. 43 Appendix D. Lubed control systems pulleys and control surface pivot points. Checked ELT according to FAR 91.207. Replaced R/H lower engine cowling attach lord mount. Replaced engine air filter element Replaced right wing nav light bulb. Repaired pilots inboard seat back stop bracket. Repaired right hand flap inboard control rod cracked attach bracket per AC 43.13 1B section 4 paragraph 58 with a doublers repair. Checked ADs through Bi Weekly 2006-20 (See recurring list in the Back of the airframe log). I certify that this aircraft is in airworthy condition at this time. Eugene Schuh 3927224796 IA

19 Jan 07	TACH TIME	FLIGHT	TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
				I Certify that this Aircraft has been inspected in accordance with an Annual Inspection and was Determined to be in Airworthy Condition Tach 3020.0 Date 09-26-07 Robin R Werner IA 396502945
				CHECKED * LUBED ALL CONTROLS * HINGES * PULLEYS * BELLCRANKS * PUSH PULL TUBES C/W AD 87-20-03 R2
1/6/08				Replaced ELT battery, next due Feb '10
10-09-08	3037.4		3037.4	Removed panels to access inspection, Lubed all points. Inspected area and reinstalled panels. ELT bat due Feb 10 Pitot tests req. by FAR 91.207(d)(2-4). AD's up to date with latest revisions 2008-19. I certify that this aircraft has been inspected in accordance with an annual inspection and determined to be airworthy at this time. See 337 form dated 10/9/08 Wilbur J. Alb 1601433 IA

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TACH TIME	FLIGHT	TIME IN SERVICE

Description of Inspections, Tests, Repairs and Alterations
Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)

MODERN AVIONICS

10000 Flying Cloud Drive
Eden Prairie, MN 55347

952 / 941-2783
800 / 525-2783
fax 952 / 941-0206

C.R.S. QI2R110L

CESSNA 177B, SN 17702278, N3523Q
TACH: 3026.2 HOBBS: 291.4

I certify that the altimeter, static system, transponder, and altitude reporter test required by FARs 91.411, 91.413 & 91.217 have been performed and found to be within limits of FAR 43 appendix E, para. C and appendix F. Tested to 20000 feet.

Altimeter model: **#1 – 5934PA-56, SN 2326**
Transponder model: **#1 – KT76A, SN 31087**
Altitude reporter: **#1 – 428-2003, SN 5780**
WO: 19716 **DATE: 03//06/2008**

BY: _____

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 Technician or Repair Facility. (*See* back pages for other specific entries.)

Maine Aviation
Aircraft Maintenance, LLC.

406 Yellowbird Rd • Portland International Airport • Portland, ME 04102
(207) 780-1811 • Fax (207) 772-6900

CRS FSER011E

Date	WO#	Registration	Type/Model	SN	Tach	
11/18/2008	32092	N3523Q	Cessna 177B	17702278	3037.8	

Installed a Garmin GMA347 Audio Panel, p/n 011-00807-00, s/n 47006204. Unit is mounted in the center radio stack, Unit is interfaced to the GNS530W GPS/Nav/Com, SL30 Nav/Com, KN64 DME, marker beacon antenna, and newly installed 4 place Mic / HP jacks.. Power is derived from a 5 amp circuit breaker labeled "AUDIO". Work was done in accordance with Garmin GMA347 Installation Manual, p/n 190-00325-01, Rev C. The Owner/Operator has been provided with Garmin GMA347 Pilot's Guide, p/n 190-00325-00, Rev. A.

Installed a Garmin SL30 Nav/Com, p/n 430-6040-303, s/n 25905328 with a GI-106A CDI, p/n 013-00049-01, s/n H08-10140. Unit is mounted in the center radio stack as the #2 radio. The SL30 is interfaced to the GMA347 Audio Panel and the Aspen ACU. Power is derived form a 5 amp circuit breaker labeled "COM 2" and a 2 amp circuit breaker labeled "NAV 2". The work was done in accordance with Apollo SL30 Installation Manual, p/n 560-0404-03, Rev. A, dated August 2003. The Owner/Operator has been provided with Garmin SL30 Nav/Com Pilot's Guide, p/n 190-00486-00, Rev. C.

Installed a Garmin GTX 327 Mode C Transponder, p/n 011-00490-00, s/n 83734412. Unit is mounted in the center radio stack. Unit is interfaced to the GNS 430W GPS/Nav/Com, and new encoder, p/n SSD120-30N, s/n N11124. Power is derived from a 3 amp circuit breaker labeled "XPDR". Work was done in accordance with Garmin GTX 327 Installation Manual, p/n 190-00187-02, Rev N. The Owner/Operator has been provided with Garmin GTX327 Pilot's Guide, p/n 190-00187-00, Rev. C.

Installed an Artex ME406 ELT system consisting of the following equipment: ELT, p/n 453-6603, s/n 11792, Antenna, p/n 110-773; Switch, p/n 345-6196-04. The ELT is mounted in the aft fuselage. Power is derived from a 1-amp fuse labeled "ELT". The work was done in accordance with Artex ME406 Operation, Installation and Maintenance Manual, p/n 570-1600, Rev. E. Complied with FAR 91.207 para (d) inspection requirements. *Required battery replacement date is August 2013 (5 years).*

Installed a Troll Avionics Cooling Fan, p/n FN200/14 behind the copilots instrument panel. Power is derived from a 2-amp circuit breaker labeled "AV FAN". The fan provides cooling air to the GNS530W and GTX327. Work was done in accordance with Troll Avionics Doc. 2000004, Rev. D.

Performed analysis of the above minor alterations and determined that these alterations do not meet the criteria to be considered *major alterations. All Work was done in accordance with the applicable sections of AC43.13-1B/2B.*

Date	WO#	Registration	Type/Model	SN	Tach	
11/18/2008	32092	N3523Q	Cessna 177B	17702278	3037.8	

Installed Aspen Avionics EFD1000 (Pro) Primary Flight Display System in accordance with STC SA10822SC and FAA Form 337, dated November 17, 2008.

Installed the following equipment: EFD1000 PFD, p/n A-05-110-00, s/n 2082; ACU, p/n A-05-112-00, s/n 1774; RSM, p/n A-05-111-00, s/n 1832; Config Module, p/n A-05-114-00, a/n 1814.

This alteration and Aspen Instructions for Continued Airworthiness, Doc. A-01-126-00, Rev. C, Appendix D, is now part of this aircraft's inspection/maintenance requirements. **This includes an annual inspection requirement and backup battery replacement every 5 years.**

Installed a Garmin GNS530W WAAS System in accordance with STC SA01933LA and STC SA01695SE and FAA Form 337, dated November 17, 2008 in the #1 position.

Installed the following equipment: GNS 530W GPS/Nav/Com Receiver, p/n 011-01064-00, s/n 23820311; GA35 WAAS Antenna, p/n 013-00235-00, s/n 38870.

This alteration and the Garmin 500W Series Instructions for Continued Airworthiness, Doc. 190-00357-65, Rev. A; and GA Antenna Series Instructions for Continued Airworthiness, Doc. 190-00673-01, Rev. F, referenced in the 337 are now part of this aircraft's inspection/maintenance requirements. **This includes an annual inspection requirement.**

Cessna SEB 08-5A"Alternate static source selector valve" not applicable by p/n.

Repaired faulty splice in voltage regulator monitor circuit, tightened alternator belt, and tightened ground connection at alternator.

Replaced beacon switch, p/n S2160-1 with new switch and re-terminated wiring at switch.

Replaced RH static sump bottle, p/n S1258-1. Replaced damaged pitot line in LH door pillar.

Performed 24 month certifications of pitot/static system and the following equipment to 20,000 ft: EFD1000, p/n A-05-110-00, s/n2082. Standby Altimeter, p/n 5934A-56, s/n 2326; GTX327 Transponder, p/n 011-00490-00, s/n 83734412. The altimeter system & altitude reporting equipment tests & inspections required by FAR part 91.411 paragraph (a.1) have been performed & found to comply with FAR part 43 Appendix E & F and is approved for return to service. The ATC transponder tests and inspections required by FAR part 91.413 paragraph (a) have been performed and found to comply with FAR part 43 Appendix F and is approved for return to service.

Performed compass calibration and placarded in accordance with FAR 23.1547.

Aircraft equipment list and weight & balance have been updated. The change to aircraft electrical load is negligible.

Performed post installation checkout and configuration in accordance with applicable Installation Manuals with no defects noted.

Performed successful test flight in accordance with 91.407B.

I certify that this aircraft was repaired and inspected in accordance with current Regulations of the FAA and is approved for return to service with respect to the work performed.

Signature

CRS FSER011E

Type and Certificate Number

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DATE | RECORDING TACH TIME | I

19 /

/

-cate Number of specific entries.)

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Date	WO#	Registration	Type/Model	SN	Tach	ACTT
11/20/08	32216	N3523Q	Cessna 177B	17702278	3037.8	----------

- Complied with SEB 07-5 R1 "Pilot's Secondary Seat Stop Installation" by installing SK210-174 iaw with procedure K.

I certify that this aircraft was repaired and inspected in accordance with current Regulations of the FAA and is approved for return to service with respect to the work performed.

James M Waite

Signature

CRS FSER011E

Type and Certificate Number

7/29/08	3022.4	3022.4	LT Side Of Magneto Has Excessive Drop & Rough - Changed Out D Magneto Timed & Ran Engine Checked Out OK. Installed Ser# 8170066 Type D4LN - 3000 R Cassady 2014834

DATE 2009	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 Technician or Repair Facility. (*See* back pages for other specific entries.)
				Serial # FN190849 Mod. # 149NL
				R Cassidy 2014634
8/27/08	3022.4		3022.4	Installed Power Flow Exhaust System Per STC
				SA02674AT R Cassidy 2014834
Oct 1	3057.8		3057.8	Removed inspection panels. Lubed all points and reinstalled inspection panels. ELT Bat due ~~Feb 10~~ Aug 2013 passed all tests required by FAR 91.207(d)(1-4). AD 97-20-03 R2 on seat tracks ok. AD's up to date with 2009-19 revisions. Wipe cowl, belly, and gear legs clean. Cleaned gascolator and inspected muffler. I certify that the aircraft has been inspected in accordance with an annual inspection and found airworthy at this time. William J. Cassidy ~~Cassidy~~

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Date	WO#	Registration	Type/Model	SN	Tach	
3/16/2010	33519	N3523Q	Cessna 177B	17702278	3063.4	

Complied with Aspen SB 2009-05, "Software Upgrade of the EFD1000 Pro Version 1.1 to 2.1" to EFD1000 PFD p/n A-05-110-00, s/n 2082 in accordance with STC 10822SC amendment Rev 2. The software p/n are 302-00007-002 (MAP) and 302-00008-001 (IOP).

I certify that this aircraft was repaired and inspected in accordance with current Regulations of the FAA and is approved for return to service with respect to the work performed.

Signature

CRS FSER011E
Type and Certificate Number

Nov 10 2010 — Installed JPI Eng. Analyzer per STC SA2586NM instructions
R Cassidy 2014834

Nov 10 2010 — Installed Plane Power Alternator + Regulator
Replaced All Associated Wire Shielded + Unshielded With Tefzel Insulated Wire
Operation Checks Out Good
R Cassidy 2014834

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DATE ~~19~~ 2010	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 Technician or Repair Facility. (*See* back pages for other specific entries.)
Nov 11				Installed Rosen Sun Visors per STC SA 4964NM Instructions R Cassidy 2014834
Nov 11				Installed BAS Shoulder Harnesses per STC SA 2067NM R Cassidy 2014834
NOV 19	3068.2		3068.2	ELT Bat due Aug 2013 - passed tests per 91.207 (d)(1-4). cleaned gascolator. Lubed all points, chkd fluid levels, and tire pressures. c/w AD 68-17-04 on Stal warning by ops; AD 70-24-04 fuel sel valve by ops; AD 72-03-03 Lube jackscrew by ops; AD 87-20-03 R1 seatbelts and rollers ok. Left to date with 2010-23 remains. See 337 form this date for engandprop SA 258CNM, Rosen sun visors SA4964NM, and BAS shoulder Harness SA 2067NM

Continued →

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DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
~~19~~ 2010				
Nov 14	3068.2	continued:		wiped belly clean and reinstalled inspection plates. I certify that this aircraft has been inspected IAW an annual inspection and found airworthy at this time 160433 A. Williams A&P
2011				
Jan 25	3068.2		3068.2	Oil + Filter Change (K Cassity 2014834)
July 7	3075.1		3075.1	Accomplished Lycoming Service Instruction 1508C Installed New Type Magneto Clamps, Retimed Mag, Run Checked Ok (K Cassity 2014834)

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CRS FSER011E

Date	WO#	Registration	Type/Model	SN	Tach	
6/22/2011	34856	N3523Q	Cessna 177B	17702278	3074.3	

Performed 24 month certifications of pitot/static system and the following equipment to 20,000 ft: Standby Altimeter, p/n 5934A-56, s/n 2326; GTX327 Transponder, p/n 011-00490-00, s/n 83734412. The altimeter system & altitude reporting equipment tests & inspections required by FAR part 91.411 paragraph (a.1) have been performed & found to comply with FAR part 43 Appendix E & F and is approved for return to service. The ATC transponder tests and inspections required by FAR part 91.413 paragraph (a) have been performed and found to comply with FAR part 43 Appendix F and is approved for return to service.

The EFD1000, p/n A-05-110-00, s/n 2082 failed the altimeter certification

I certify that this aircraft was repaired and inspected in accordance with current Regulations of the FAA and is approved for return to service with respect to the work performed.

Signature

CRS FSER011E
Type and Certificate Number

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Aircraft Maintenance, LLC.

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CRS FSER011E

Date	WO#	Registration	Type/Model	SN	Tach	
8/3/2011	34969	N3523Q	Cessna 170B	17702278	3079.1	

Removed Aspen PFD, p/n A-05-110-00, s/n 2082 and installed new exchange unit, p/n 910-00001-001, s/n 10136 in accordance with Aspen SB2011-03. Software p/n's are 302-00007-009 (MAP 2.3.1) and 302-00013-002 (IOP B2.0.2). The static system and data correspondence tests and inspections required by FAR part 91.411 paragraph a.2 and a.3, have been performed and found to comply with FAR part 43 Appendix E paragraph a & c, and is approved for return to service.

I certify that this aircraft was repaired and inspected in accordance with current Regulations of the FAA and is approved for return to service with respect to the work performed.

Signature

CRS FSER011E
Type and Certificate Number

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DATE 2011	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 Technician or Repair Facility. (*See* back pages for other specific entries.)
Nov 28	3086.3		3086.3	chkd brake fluid and bolting. ELT Bat due Aug 2013 passed required tests 91.207(d)(1-4). Tire pressures ok, lubed all points. C/w AD 70-24-04 68-17-04 and 76-04-03 by visual and gps, c/w 11-16-09 by visual + measurements. AD 72-03-03R3 on snubbers n/a by S/N listed. Re-installed all inspection plates. I certify that this aircraft has been inspected in accordance with an annual inspection and found airworthy at the time. Mallard A&P 1604433 IA
Apr 11 2012	3091.2		3091.2	Installed New Brake Pads + Repacked Wheel Bearings - Changed Eng Oil + Filter R. Cassidy 2014834

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DATE ~~10~~ 2012	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 Technician or Repair Facility. (*See* back pages for other specific entries.)
NOV 13	3109.9		3109.9	ELT Bat due Aug 2013. Passed tests for 91.207(d)(4). Lubed all points c/w AD 70-24-04 + 65-17-04 + 76-04-03 and 11-10-09 by visual and measurements. Lubed all points and reinstalled inspection plates. ADs up to date with 2012-22 revisions. I certify that this aircraft has been inspected in accordance with an annual inspection and found airworthy at this time William J Ally 1601433 IA.
NOV 13, 2013	3116.3		3116.3	ELT Bat o/o date never noted. Chk AD 70-24-04 and 65-17-04 and 76-04-03 and 11-10-09 by visual and dimensional inspection. Lubed all points and reinstalled all inspection panels. ADs up to date with 2013-22 revisions. I certify that this aircraft has been inspected in accordance with an annual insp and found airworthy at this time William J Ally 1601433 IA

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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 Technician or Repair Facility. (*See* back pages for other specific entries.)
Nov 13	3116.3		3116.3	Changed Oil & Filter Per Logbook 2014834
Nov 30	3116.3		3116.3	Installed New ELT Battery Kit Logbook 2014834

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Aircraft Maintenance, LLC.

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CRS FSER011E

Date	WO#	Registration	Type/Model	SN	Tach	
2/3/2014	37476	N3523Q	Cessna 177B	17702278	3118.5	

Repaired multiple static leaks at the airspeed, VSI, and altimeter connections.
Recalibrated the Aspen IAW Tech Note 2009-09, Rev C.
Performed 24 month certifications of pitot/static system and the following equipment to 20,000 ft: Aspen PFD, p/n 910-00001-001, s/n 10136; Standby Altimeter, p/n 5934A-56, s/n 2326; GTX327 Transponder, p/n 011-00490-00, s/n 83734412. The altimeter system & altitude reporting equipment tests & inspections required by FAR part 91.411 paragraph (a.1) have been performed & found to comply with FAR part 43 Appendix E & F and is approved for return to service. The ATC transponder tests and inspections required by FAR part 91.413 paragraph (a) have been performed and found to comply with FAR part 43 Appendix F and is approved for return to service.

I certify that this aircraft was repaired and inspected in accordance with current Regulations of the FAA and is approved for return to service with respect to the work performed.

Signature

CRS FSER011E
Type and Certificate Number

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 Technician or Repair Facility. (*See* back pages for other specific entries.)

Airframe Log Entry For N3525Q (Annual Inspection) N3523Y

TACH: 3161.4 **AFTT:** 3161.4 **DATE:** 11-05-14

Annual inspection completed this date. Removed all necessary inspection panels and inspect and lubricate as necessary. Inspect and lubricate all control surfaces. Inspect cockpit and under dash. Jack aircraft and inspect landing gear, tires, wheels and brakes. Service brake reservoirs. Cleaned and greased all wheel bearings. Removed previously installed owner produced fuel manifold and installed correct Cessna fuel fitting P/N 1750010-2 and two AN823-6D fittings as per C177 manual. Removed previously installed owner produced oil cooler fitting and installed an AN822-6-6 as per C177 manual. ELT tested and inspected IAW FAR 91.207(D).

A.D. 2011-10-04 Seat Tracks, C/W by inspection, next due 11-2015 or 3261.4 Tach.

I certify this **aircraft** has been inspected IAW an **Annual** inspection per **FAR 43 App D** and was determined to be in airworthy condition

Signed: Ryan A Johnson

A&P# 3123276IA

Johnson Bros Flying Service Tri-County Airport (INR) E2525 Co Hwy JJ Spring Green, Wi 53588 (608)341-8030

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 Technician or Repair Facility. (*See* back pages for other specific entries.)
NOV 10TH 2015	TACH 3,191.2	AFTT 3,191.2		ANNUAL INSPECTION COMPLETED THIS DATE. OPEN INSPECTION PANELS ON WINGS, TAIL FUSELAGE & INTERIOR. INSPECT AND LUBRICATE. INSPECT & LUBE FLIGHT CONTROLS. INSPECT LANDING GEAR, WHEELS & BRAKES. INSPECT & TEST ELT IAW FAR 91.207 & BATTERIES DUE NOV 2020, AD. 11-10-09 SEAT TRACKS, C/W BY INSPECTION, NEXT DUE 3,291.2 TACH. I CERTIFY THIS AIRCRAFT HAS BEEN INSPECTED IAW FAR PART 43 APP D AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. Ryan A Johnson A&P 3123276 IA

DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspection, Maintenance, Alteration or Repair Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)

FAA - PMA

This tag certifies that Sky-Tec Model No. **STS-S12**
Serial No **S2S-411552** was manufactured new on 12 Dec 2015
by Sky-Tec under the authority of FAA-PMA No. PQ0852SW
Supplement No. **11** in accordance with Sky-Tec's
FAA-Approved Quality System (14CFR Part 21, Subpart K).
This article has been determined to be airworthy.
For installation eligibility see *www.skytecair.com/eligibility.htm*
Installed on N 33236 by [signature]
(Aircraft) (Mechanic)
AP3123276

Form CC1108-1

ALTIMETER, STATIC, AND TRANPONDER CERTIFICATE

N3523Q

Wisconsin Aviation – Four Lakes Inc.
FAA CRS No. DBKR124D

Stby
Madison, WI 53704

608-268-5006

Test Alt. x 1k Ft	-1	0	.5	1	1.5	2	3	4	6	8	10	12	14	16	18
Tol. ± Ft.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
Actual ± Ft.	0	-10	-10	-20	-20	-25	-30	-30	-25	-10	-15	-25	-25	-25	-30

Test Alt. x 1k Ft	20	22	25	30	35	40	45	50	Case Leak	OK	Hysteresis Tol + 75 Ft.	
Tol. ± Ft.	130	140	155	180	205	230	255	260	Tol. 100 Ft	86	50% Max	10
Actual ± Ft.	-50	X	X	X	X	X	X	X	Temp C	22	40% Max	0

CERTIFIED STATIC PRESSURE SYSTEM PER FAR 43 APP. E (a)
CERTIFIED ALTIMETER PER FAR 43 APP. E. (b) TO (20) THOUSAND FEET.
CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING EQUIPMENT PER FAR 43 APP. E (c).
COMPLIED WITH RECORDS KEEPING PER FAR 43 APP. E (d).
CERTIFIED TRANSPONDER SYSTEM PER FAR 43 APP. F.

TRANSPONDER MAKE: Garmin MODEL: GTX-327 S/N: 83734412

The aircraft and/or component identified hereon was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Regulations and is airworthy and approved for return to service.

Date: 2/17/16 W.O.: AV16-14541 Tach: 3219.4 Signed:

ALTIMETER

MAKE: United
MODEL: 5934A-56
S/N: 2326

BLIND ENCODER

MAKE: TCI
MODEL: SSD120-30N
S/N: N11124

#2 TRANSPONDER

MAKE: X
MODEL: X
S/N: X

WISCONSIN AVIATION FOUR LAKES, INC.

DESCRIPTION OF WORK DONE: **N3523Q**

Upgraded GNS-530W Main software to v5.20 per Garmin SB 1461 Rev A and GPS to v5.0 per SB 1317 Rev A. Ramp check good.

----------END----------

The aircraft component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details are on file at this agency under the following work number.

DATE: 2/17/16 TACH: 3219.4 WO#: AV16-14541 SIGNED: _____

3606 Corben Ct. – Madison, WI 53704 - CRS No7DBKR124D
(608) 268-5006 (608) 268-5038 FAX

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 Technician or Repair Facility. (*See* back pages for other specific entries.)

AIRFRAME LOG ENTRY FOR N3523Q (ANNUAL)

DATE: 11-23-16 TACH: 3,302.8 AFTT: 3,302.8

Annual inspection completed this date. Open panels on wings tail an interior to inspect and lubricate as needed. Inspect ELT IAW FAR 91.207(D), battery due Nov 2020. Inspect landing gear, tires, wheels and brakes. Clean and grease all wheel bearings, Service shimmy dampener. Inspect cockpit and under dash. Drain fuel sumps. Install two re-tread tires LH and RH MLG wheels, see 8130's by CRS U8SR971J, form 787-018 dated 10 Oct 2016 and form 787-002 dated Oct 7 2016. Install two new Rapco brake discs P/N RA164-04000. Install 3 new cowl mounts for lower cowling, P/N SK2003-50ADJ.

A.D. 2011-10-09 Seat Tracks and Rollers, C/W by inspection, next due 3,402.8 Tach.

I certify this aircraft has been inspected IAW an **ANNUAL** inspection as per **FAR PART 43 APP D** and was determined to be in airworthy condition.

Signed: Ryan A Johnson

A&P 3123276IA

AIRFRAME LOG ENTRY FOR N3523Q

DATE: 01-03-~~16~~17 TACH: 3,318.3

Disassemble RH brake caliper and replace piston o-ring MS28775-244, reassemble and re-bleed RH brake system.

Signed: Ryan Johnson

A&P 3123276IA

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 Technician or Repair Facility. (*See* back pages for other specific entries.)

AIRFRAME LOG ENTRY FOR N3523Q (ANNUAL)

DATE: 12-12-17 TACH: 3,372.6 AFTT: 3,372.6

Annual inspection completed this date. Open panels on wings tail an interior to inspect and lubricate as needed. Inspect ELT IAW FAR 91.207(D), battery due Nov 2020. Inspect landing gear, tires, wheels and brakes. Service shimmy dampener. Inspect cockpit and under dash. Drain fuel sumps. Install the following new carburetor air box parts, (1) MC1752078-4 shaft, (1) MC0750111-119 arm, (1) NASM166562-11 roll pin, and (1) MCS2323-5 clamp with new AN3 high temp nut. Ops check of carburetor heat satisfactory upon run up.

A.D. 2011-10-09 Seat Tracks and Rollers, C/W by inspection, next due 3,472.6 Tach.

I certify this aircraft has been inspected IAW an **ANNUAL** inspection as per **FAR PART 43 APP D** and was determined to be in airworthy condition.

Signed: Cyndi Hamm

A&P 3123276IA

Johnson Bros. Flying Service E2525 Co Hwy JJ Spring Green Wi 53588 Tri County Airport (LNR) (608)341-8030

02-22-18	NEW CONCORD BATTERY	TERRY SHAFFER	

DATE	RECORDING	TODAYS	TOTAL	Description of Inspections, Tests, Repairs and Alterations

ALTIMETER, STATIC, AND TRANPONDER CERTIFICATE

N3523Q

EFD
Madison, WI 53704

608-268-5006

Wisconsin Aviation Inc.
FAA CRS No. DBKR124D

Test Alt. x 1k Ft	-1	0	.5	1	1.5	2	3	4	6	8	10	12	14	16	18
Tol. ± Ft.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
Actual ± Ft.	-5	-10	-10	-5	-10	-5	0	0	0	0	5	5	5	5	5

Test Alt. x 1k Ft.	20	22	25	30	35	40	45	50	Case Leak	OK	Hysteresis Tol + 75 Ft.	
Tol. ± Ft.	130	140	155	180	205	230	255	260	Tol. 100 Ft	OK	50% Max	10
Actual ± Ft.	15	X	X	X	X	X	X	X	Temp	29	40% Max	10

CERTIFIED STATIC PRESSURE SYSTEM PER FAR 43 APP. E (a)
CERTIFIED ALTIMETER PER FAR 43 APP. E. (b) TO (20) THOUSAND FEET.
CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING EQUIPMENT PER FAR 43 APP. E (c).
COMPLIED WITH RECORDS KEEPING PER FAR 43 APP. E (d).
CERTIFIED TRANSPONDER SYSTEM PER FAR 43 APP. F.

TRANSPONDER MAKE: Garmin MODEL: GTX-327 S/N: 83734412

The aircraft and/or component identified hereon was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Regulations and is airworthy and approved for return to service.

Date: 8-14-2018 W.O.: AV18-16082 TACH: 3383.6 Signed:

ALTIMETER

MAKE: Aspen
MODEL: EFD1000
S/N: 10136

BLIND ENCODER

MAKE: TCI
MODEL: SSD120-30N
S/N: N11124

#2 TRANSPONDER

MAKE: X
MODEL: X
S/N: X

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 Technician or Repair Facility. (*See* back pages for other specific entries.)

AIRFRAME LOG ENTRY FOR N3523Q (ANNUAL)

DATE: 01-03-19 TACH: 3,389.4 AFTT: 3,389.4

Annual inspection completed this date. Open panels on wings tail an interior to inspect and lubricate. Inspect ELT IAW FAR 91.207(D), battery due Nov 2020. Inspect landing gear, tires, wheels and brakes, clean and grease all wheel bearings. Service shimmy dampener. Inspect cockpit and under dash. Remove LH cowl flap control and install new control P/N MCS1391-25. Install 1 new cowl mount P/N 08-15971 and replace various missing rivets in cowl mount brackets with cherry max rivets. Replace two sections of SCAT duct for muffler shroud inlet and outlet.

A.D. 2011-10-09 Seat Tracks and Rollers, C/W by inspection, next due 3,489.4 Tach.

I certify this aircraft has been inspected IAW an **ANNUAL** inspection as per **FAR PART 43 APP D** and was determined to be in airworthy condition.

Signed: Ryan R Johnson

AP3123276IA

Johnson Bros. Flying Service E2525 Co Hwy JJ Spring Green Wi 53588 Tri County Airport (LNR) (608)341-8030

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 Technician or Repair Facility. (*See* back pages for other specific entries.)

AIRFRAME LOG ENTRY FOR N3523Q

DATE: 12-05-19 **TACH:** 339.7

Install Uavionics tailbeacon ADS-B out indicator P/N UAV-1003202-001, S/N 2005795 in place of OEM position light. Installation done IAW STC SA04362CH, see form 337 filed this date. Tailbeacon configured using section 10 of installation manual P/N UAV-1002810-001.

Signed:

AP3123276IA

Johnson Bros. Flying Service E2525 Co Hwy JJ Spring Green Wi 53588 Tri County Airport (LNR) (608)341-8030

DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)

AIRFRAME LOG ENTRY FOR N3523Q (ANNUAL)

DATE: 01-24-20 TACH: 3,400.9 AFTT: 3,400.9

Annual inspection completed this date. Open panels on wings tail an interior to inspect and lubricate. Inspect ELT IAW FAR 91.207(D), battery due Nov 2020. Inspect landing gear, tires, wheels and brakes. Replace all brake linings with new P/N RA66-105. Replace 2 cups P/N 08231-20629 and 2 bearings P/N 08125-20629 in NLG wheel. Clean and grease all wheel bearings. Inspect cockpit and under dash. Remove Uavionics Tail Beacon ADS-B out transmitter and re-install previously removed Whelen tail nav light P/N 7101112. Replace aft rudder cable attachment hardware with 2 new AN23-11 clevis bolts, 2 AN310-3 castle nuts and 2 cotter pins P/N MS24665-132-2-2.

A.D. 2011-10-09 Seat Tracks and Rollers, C/W by inspection, next due 3,500.9 Tach.

I certify this aircraft has been inspected IAW an **ANNUAL** inspection as per **FAR PART 43 APP D** and was determined to be in airworthy condition.

Signed: Roger A Johnson

AP31232761A

Johnson Bros. Flying Service E2525 Co Hwy JJ Spring Green Wi 53588 Tri County Airport (LNR) (608)341-8030

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 Technician or Repair Facility. (See back pages for other specific entries.)

ALTIMETER, STATIC, AND TRANPONDER CERTIFICATE

N3532Q

STBY

Wisconsin Aviation-Four Lakes Inc. Madison, WI 53704 608-268-5006

FAA CRS No. DBKR124D

Test Alt. x 1k Ft	-1	0	.5	1	1.5	2	3	4	6	8	10	12	14	16	18
Tol. ± Ft.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
Actual ± Ft.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Test Alt. x 1k Ft.	20	22	25	30	35	40	45	50	Case Leak	OK	Hysteresis Tol + 75 Ft.	
Tol. ± Ft.	130	140	155	180	205	230	255	260	Tol. 100 Ft	29	50% Max	0
Actual ± Ft.	0	X	X	X	X	X	X	X	Temp C	-3	40% Max	0

ALTIMETER

MAKE: United
MODEL: 5934AD 4
S/N: 4Z0748

CERTIFIED STATIC PRESSURE SYSTEM PER FAR 43 APP. E (a).
CERTIFIED ALTIMETER PER FAR 43 APP. E. (b) TO (20) THOUSAND FEET.
CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING EQUIPMENT PER FAR 43 APP. E (c).
COMPLIED WITH RECORDS KEEPING PER FAR 43 APP. E (d).
CERTIFIED TRANSPONDER SYSTEM PER FAR 43 APP. F.

BLIND ENCODER

MAKE: Garmin
MODEL: GEA 12
S/N: 3T6018557

TRANSPONDER MAKE: Garmin MODEL: GTX 345 S/N: 3EF032061

#2 TRANSPONDER

MAKE: N/A
MODEL: N/A
S/N: N/A

The aircraft and/or component identified hereon was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Regulations and is airworthy and approved for return to service.

Date: 2/5/2020 W.O.: AV20-0025 HOBBS: 395.3 Signed:

DATE 19_	RECORDING TACH	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of

ALTIMETER, STATIC, AND TRANPONDER CERTIFICATE

N3523Q

PFD

Wisconsin Aviation-Four Lakes Inc. Madison, WI 53704 608-268-5006

FAA CRS No. DBKR124D

Test Alt. x 1k Ft	-1	0	.5	1	1.5	2	3	4	6	8	10	12	14	16	18
Tol. ± Ft.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
Actual ± Ft.	0	0	0	0	0	0	0	0	0	0	+10	+10	+10	+10	+20

Test Alt. x 1k Ft.	20	22	25	30	35	40	45	50	Case Leak	OK	Hysteresis Tol + 75 Ft.	
Tol. ± Ft.	130	140	155	180	205	230	255	260	Tol 100 Ft	29	50% Max	10
Actual ± Ft.	+20	X	X	X	X	X	X	X	Temp C	-3	40% Max	20

ALTIMETER

MAKE: Aspen
MODEL: EFD 1000
S/N: 10136

CERTIFIED STATIC PRESSURE SYSTEM PER FAR 43 APP. E (a)
CERTIFIED ALTIMETER PER FAR 43 APP. E. (b) TO (20) THOUSAND FEET.
CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING EQUIPMENT PER FAR 43 APP. E (c).
COMPLIED WITH RECORDS KEEPING PER FAR 43 APP. E (d).
CERTIFIED TRANSPONDER SYSTEM PER FAR 43 APP. F.

TRANSPONDER MAKE: Garmin MODEL: GTX 345 S/N: 3EG032061

The aircraft and/or component identified hereon was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Regulations and is airworthy and approved for return to service.

Date: 2/5/2020 W.O.: AV20-0025 HOBBS: 395.3 Signed:

BLIND ENCODER

MAKE: Garmin
MODEL: GEA 12
S/N: 3T6018557

#2 TRANSPONDER

MAKE: N/A
MODEL: N/A
S/N: N/A

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 Technician or Repair Facility. (*See* back pages for other specific entries.)

WISCONSIN AVIATION FOUR LAKES, INC.

DESCRIPTION OF WORK DONE: **N3523Q**

Aircraft modified per FAA Form 337 dated this date; details include installation of the Garmin GTX 345 transponder system to provide ADS-B Out. The installation of the Garmin GTX 345 is approved under STC SA01714WI and the AML. All equipment installed is listed in the Garmin Master Drawing List P/N 005-00734-04 Rev 16. Removed GTX-327 transponder P/N 011-00490-00 S/N 83734412 and SSD120 encoder P/N SSD120-30A S/N 11124. Installed GTX-345 transponder P/N 011-03302-00 S/N 3EG032061 and GEA-12 encoder P/N 011-03080-01 S/N 3T6018557. Removed old coax and CI105 antenna and Installed new AV-74 antenna and coax. Updated GNS-530W software to version 5.4 in accordance with Garmin service bulletin 1726. System ramp checks good in accordance with FAR 43 APP. F . The installed ADS-B OUT system was shown to meet the equipment requirements of 14 CFR § 91.227"
Repaired static system leak by replacement of (2) static bottles. Completed BE-Certification, see BE Certificate for details. Completed required FAA paperwork.

----------END----------

The aircraft component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details are on file at this agency under the following work number.

DATE: February 7, 2020 **TACH** 3401.4 **HOBBS:** 395.3 **WO#:** AV20-0025 **SIGNED:**

3606 Corben Ct. – Madison, WI 53704 - CRS No. DBKR124D
(608) 268-5006 (608) 268-5038 FAX

Airworthiness Directives

Chronological Listing of Compliance and Method of Compliance

DATE 19 98	A.D. NUMBER	TOTAL TIME IN SERVICE	
4/3/97	96/12/07	1958.8	Impulse coupling insp due 2455.8
4/27/98	872003	2172.2	Seat rails
4/27/98	96-9-10		Oil pump gears N/A AD 81-15-4 PCW
4/27/98	96233	2172.2	Fuel pump N/A no new pump installed
4/27/98	97-1-13	2172.2	Fuel & hyd hoses, no new hoses installed
4/27/98	98-1-6	2172.2	Carb NA NA 4-5 carb installed
4/27/98	98-2-8	2172.2	N/A Crankshaft (constant speed prop.)
4/30/98	98-11-11	2303	Crankshaft crack NA
4/30/98	72-3-3	2302	visual
NOV 19-10	96/12/07	3068.2	Impulse coupling due at 3522.4 changed out at 3022.4

Packard Hosing - 1992 82 17 yr