

REPLACE

EXT EXPS  
10/3/04

1712

LOG #11



The Standard

AIRCRAFT LOG

ASA-SA-11

## Aircraft Record General Information

Manufacturer Aero Comm Model 500B

Serial 1450-159 Registration Number 171Z

Date of Manufacture \_\_\_\_\_

### Engine(s) currently installed:

Manufacturer TEXTRON (L) Model IO 540 E1B5 Serial L-3456-48

Manufacturer Textron (R) Model IO 540 E1B5 Serial RL-8770-48

### Propeller(s) currently installed:

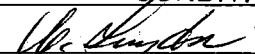
Manufacturer \_\_\_\_\_ Model \_\_\_\_\_

HUB Model \_\_\_\_\_ Serial \_\_\_\_\_ Serial \_\_\_\_\_

Blade Model \_\_\_\_\_ Serial \_\_\_\_\_ Serial \_\_\_\_\_ Serial \_\_\_\_\_

Blade Model \_\_\_\_\_ Serial \_\_\_\_\_ Serial \_\_\_\_\_ Serial \_\_\_\_\_

DATE 19 <u>97</u>	RECORDING TACH TIME	TODAY'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.)
			9551.5	
8/11/97	HM 2.362.4		9546.4	Performed ANNUAL / 100 hr INSPECTION IAW USFS INSP FORM FS-5700F Service battery, brakes, tires. JACK AIRCRAFT & check L/gear operation, pack all wheel bearings. Service Hyd Reservoir. Check ELT for Operation Bat Exps. 4/99 IAW FAR 91.207 R&R Both Landing light lamps P/N 4553. Check AD notes thru 97-15 Remove Rudder & replace rivets in lower torque tube attach - Reinstall & safety

DATE 19 ____	RECORDING TACH TIME	TODAY'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.)
I CERTIFY THAT THIS <u>AIRCRAFT</u>				HAS BEEN INSPECTED
IN ACCORDANCE WITH A <u>100hr</u>				INSPECTION AND
WAS DETERMINED TO BE IN AIRWORTHY CONDITION.				
CENTURION AIR MAINTENANCE				
		<u>AP 22120195A</u>		

FLIGHT INFORMATION  
1205 N.E. Airport Way  
Portland, OR 97218  
503-288-9310


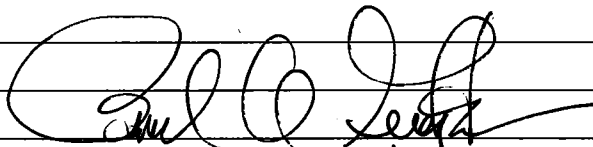
DATE 19__	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
8/26/97	HM 2375.5		9:40.2	Complied w/OAS Safety Alert No 97-03 and OAS Tech Bulletin No 97-04. Hydraulic pump shut-off switch guards, safelined w/ copper safety wire <i>J. J. A 262788432</i>
9-22-97	TT 9557			INSTALLED 107A GENERATOR S/N 15033 ON LH ENG OPS CHECK GOOD.  <b>FLIGHTCRAFT INC./PORTLAND</b> 7505 N.E. Airport Way Portland, OR 97218 FCPR831D
2/16/98				Removed LH Engine for Overhaul. S/N L5456-48 <i>A. Supton AP2212019</i>

DATE 19__	RECORDING TACH TIME	TODAY'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.)
3/12/98	HM 2405.2 TTAF 9589.2			Perform Aero Comm SB 223 Wing Leading Edge Modification. Performed PARTS I, II, III. Fuel Tanks were REMOVED @ EACH Wing ROOT & OVER HAUKE SEE yellow tags (CONTINENTAL Fuel Cell) <i>W. Supton</i> AP2212019
5/8/98	HM 2405.2			Reinstalled LH Engine - see Eng log for details. S/N L5456-48 <i>W. Supton</i> AP2212019

DATE 19 <u>98</u>	RECORDING TACH TIME	TODAY'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.)
<u>5/8/98</u>	<u>2405.2</u>			REMOVED HARTZELL propellers HC-A34K-2 SN 155-163, SN 155-164 & spinners & BULKHEADS INSTALLED Hartzell propellers HC-C34R-2UF R/H SN CK 4607A L/H CK 4609A UNITS ARE FACTORY NEW AND INSTALLED NEW SPINNERS AND BULKHEADS TORQUED AND SAFTIED. Propellers are listed under T.C. DATA sheet for Aero Comm 500B & IO 540 EIB5 ENGINE. AIRCRAFT WAS WEIGHED SEE ANNUAL ENTRY NEXT PAGE. C. Duffin AP 2212019

DATE 19 <u>98</u>	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE  TOTAL	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.)
<u>5/8/98</u>	<u>2405.2</u>		<u>9589.2</u>	PERFORMED ANNUAL INSPECTION IAW FAR 43 App D & Aero Comm USFS Insp sheet. SERVICE battery, brakes, tires, Hyd SYSTEM JACK AIRCRAFT, CHECK GEAR OPERATION, EMER EXT, WARNING SYSTEMS PACKED ALL wheel BEARINGS INSTALLED NEW DUNGEONS <sup>P/N</sup> 9044. CHECKED ELT IAW FAR 91.207 BAT EXPS 4/99. Reinstalled C-Pilot's ATT GYRO. See yellow tag. Checked ALL controls and lubricated. Checked HEATER controls, filter, igniter. CONT.

DATE 19 <u>98</u>	RECORDING TACH TIME <u>5/8/98 2405.2</u>	TODAY'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.)
				AIRCRAFT WAS WEIGHED WITH '0' FUEL
				FULL OIL AND 1 MIDDLE SEAT (PASS).
				L/M 2359 NOSE 461 R/MAIN 2363 <sup>see</sup> wgt <sup>Baker</sup>
				NEW EMPT. WGT = 5183. C/W AERO COMM
				SB 226 INSPECT FLAP PULLEYS WITH
				TOOL P/N SB226 ALL PULLEYS ACCEPTABLE
				C/W'S AD 98-07-17 AM 39-10437.
				C/W AD 98-08-19 SB223 PCW ON 3/12/98
				WING LEADING EDGE MODIFICATION. CHECK
				AD'S TMRV 98-08.


DATE 19 <u>98</u>	RECORDING TACH TIME	TODAY'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.)
				I CERTIFY THAT THIS <u>AIRCRAFT</u> HAS BEEN INSPECTED
				IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND
				WAS DETERMINED TO BE IN AIRWORTHY CONDITION
				CENTURION
				AIR 
				MAINTENANCE <u>U. Ruyter</u>
				<u>AP22120191A</u>
				5/8/98 2405.2 C/W SB227 RE: INSPECTION OF LEFT & RIGHT
				MAIN GEAR SENSORS. CHECK OF STR WTS OK.
				ATT: 9594.3
				
				AP544130659









DATE 19 <u>99</u>	RECORDING TACH TIME	TODAY'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.)
3/5	2563.5			 <p><b>CENTURION AIR MAINTENANCE, INC.</b> 69335 HAWKFLIGHT DR. SISTERS, OR 97789</p> <p>DATE: 03-05-99 A/C: 600B N# 171Z HOBBS: 2563.5 TOTAL: 9747.5</p> <p><b>SERVICES:</b> Completed Annual inspection. Service battery brakes and tires. Jack aircraft, inspect landing gear, check gear extension and retraction, adjust nose down lock switch. Check clean and inspect and pack wheel bearings. Check all pulleys, cables and fittings. Check ELT with IAW FAR 91-207, replace battery, due mar 2001. Remove Oxy bottles for HYD STAT. Checked for leaks. Reinstall bottle HYD STAT due again in 5 years. Check all Ads thru 99-05. <i>R &amp; R BURGERS</i></p> <div style="border: 1px solid black; padding: 5px;"> <p>I CERTIFY THAT THIS AIRCRAFT // ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A <del>ANNUAL</del> // 100HR // 50HR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION</p> <p><i>[Signature]</i> <i>AP 22120192K</i></p> </div>



N171Z

7/13/99

W.O. 3153

Repaired pilot push to talk switch by repair to the wiring in the control yoke, operational checks complied with, no discrepancies noted.

## APPROVAL FOR RETURN TO SERVICE

The aircraft identified above was inspected and repaired in accordance with current FARs and is approved for return to service only for work performed. Pertinent details are on file at this agency under the above listed work order.

SIGNED, *[Signature]* Designated Inspector for Aero Air, LLC

DATE

19\_\_

AERO AIR

N171Z

July 12, 1999

ACTT 9816.7

W.O. 3151

Complied with a 50 hour inspection in accordance with maintenance manual requirements. Repaired small crack in the leading edge of the right nacelle skin by the installation of a patch (minor repair). Removed and replaced the right landing light, installed new P/N 4553. Serviced the nose strut with clean fluid and dry nitrogen. Ground runs, operational checks and leak checks complied with, no discrepancies noted.

## APPROVAL FOR RETURN TO SERVICE

I certify that the aircraft identified above has been inspected IAW a "50 hour" type inspection and has been determined to be in an airworthy condition on the above indicated date IAW the requirements of FAR 91.409 (f).  
 SIGNED, [Signature] Designated Inspector for CRS 09IR003Y.

Repair

DATE

19\_\_

REC  
TAC  
TIME

AERO AIR

## Left engine log entry

N171Z, Commander 500B

WO 03185

July 29, 1999

Meter 2653.3 hours

Removed left magneto, checked internal timing, cleaned, set start points to "0" TDC and reinstalled mageto and adjusted to the correct timing. Ground runs were satisfactory.

## APPROVAL FOR RETURN TO SERVICE

I certify that the above described engine has been inspected and repaired IAW current FARs and is approved for return to service only for the work performed. Pertinent details are on file at this agency under the above work order.

Signed, [Signature]

Inspector, Aero Air LLC., CRS# 091R003Y

AERO AIR

N171Z, TCAC 500B, S/N 1450-159 W.O. 3245 August 27, 1999

ACTT 9866.6 hours/Meter 2682.6 hours

Left eng TSO 277.4 hours

Right eng TSO 590.3 hours

Performed 100 hour inspection IAW FAR43, appendix D. Researched AD's through 99-16. Performed 100 recurring inspection IAW AD76-07-12 "Bendix ignition switch". Performed 100 recurring inspection IAW AD93-02-05 "Fuel injection lines". Complied with Flight Manual revision IAW AD98-20-34 "Severe icing". Note: AD94-04-13 "Spar inspection" is due prior to ACTT of 9947.2 hours. Determined AD97-18-02 "Hartzell propellers" is not applicable to this aircraft by propeller model number. Complied with Commander SB 225 by inspection of upper and lower main landing gear bearings. Complied with Commander Communique 99-22 by NDT inspection of MLG clevis pins. Repaired copilot's window latch by installing new roll pin. Installed "fuel type" placard at center fuel tank filler. Repaired inop "no smoking" light by replacing 3 each lamps P/N GE32. Installed placard on overhead switch panel reading "Left fuel vent heat inop". ~~Installed placard stating "Electric elevator trim inop" (manual trim is operational).~~ Repaired oxygen leak by replacing oxygen regulator with an *overhauled* unit P/N 8883-

an or Repair

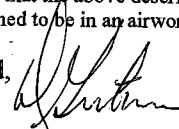
00, S/N 5965 (serviceable tag provided by Eagle Industries, CRS# WP1R592K, dated 6-22-99). Reinstalled missing patch above left MLG wheel well. Installed new key washer P/N MS21258-15 at right main wheel retaining nut. Replaced one elevator static wick with *serviceable* static wick P/N AN/ASA-38. Repaired worn area of door seal with black RTV. Replaced MLG center scissors bushing with new bushings P/N ED11060 (2 each), and P/N ED11061 (2 each).

or Repair

## APPROVAL FOR RETURN TO SERVICE

I certify that the above described airplane has been inspected IAW a 100 hour type inspection and has been determined to be in an airworthy condition on the above described date per the requirements of FAR 91.409(f).

Signed,



Inspector, Aero Air LLC., CRS# 091R003Y

R.S. 091R003Y • 2050 N.E. 25th • Hillsboro, OR 97124

DATE RECORDING

## LOG BOOK ENTRY

AERO AIR

Portland - Hillsboro Airport (HIO)  
PHO 503-640-3711 - FAX 503-640-1093

Aircraft: Commander 500B Serial No: 1450-159 "N" No: N171Z W.O. No: 3258

Cleaned and lubricated trim servo actuator in the aircraft. Actuator was found to be sticking causing trim servo not to fully engage and no trim function. Ground checked system serviceable.

## APPROVAL FOR RETURN TO SERVICE

The Aircraft identified above was inspected and repaired in accordance with current FAR's and is approved for return to service only for work performed. Pertinent details are on file at this agency under the above listed work order.

SIGNED,

Date:

Designated Inspector for Aero Air, LLC

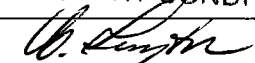

R.S. 091R003Y • 2050 N.E. 25th • Hillsboro, OR 97124

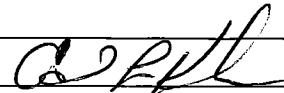

Technician or Repair

DATE	RECORDING TACH TIME	TODAY'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.)
10/4/99	2728.9			COMPLETED 50 HR. SERVICE BATTERY BRAKES & TIRES. SERVICED MAIN GEAR STRUTS OPS CHECK GOOD.
				I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH A 50 HR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.
				CENTURION AIR MAINTENANCE
10/4/99	4M 2728.9			C/O PART 1 OF SB 228 NOSE GEAR
	ACT: 9918.0			STEERING PIN PCW
				Mitch Bury ATP462747084

DATE 19__	RECORDING TACH TIME	TODAY'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.)
Log Book Entry N#: <u>1712</u> WIO# <u>126612</u>				
Description of Work: <u>C/W AD 94-04-13 INSPECT</u>				
<u>FRONT SPAR LOWER CAP AS PER SB 906 REV1</u>				
<u>PART I DATED 6-5-92 DUE AGAIN 500 HRS. FROM</u>				
<u>C/W SB 900 PART I DATED 2-9-99 DUE AGAIN</u>				
<u>750 HRS.</u>				
Signature: <u>Bruce Stephenson</u> Date: <u>12-29-99</u>				
FLIGHTCRAFT, INC. / PORTLAND FCPR831D				
HM/TACH: <u>2742</u>				
AFT <u>9926.0</u> <b>FLIGHTCRAFT</b>				

DATE <u>2000</u>	RECORDING TACH TIME	TODAY'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.)
<u>4/10/2000</u>	<u>HM</u> <u>2743.7</u>			<u>Performed Annual Insp IAW FAR 43 App D &amp; USFS</u>
<u>TOTAL</u>	<u>9927.7</u>			<u>100 hr Insp. Service battery, brakes, tires, JACK AIRCRAFT</u>
<u>HM/TACH</u>	<u>66/5</u>			<u>CHECK H/G OPERATION, CHECK EMERGENCY EXT &amp; WARNING SYSTEM</u>
<u>HM</u>				<u>R+R Bungee's PIN 9044. Service blow down bottle w Nitrogen</u>
				<u>Perform 100 hour insp. check ELT for operation IAW</u>
				<u>FAR 91-207 (D) Bat. Exps 3/01. Remove STATIC WICKS</u>
				<u>INSTALL STATIC ELIMINATORS IAW DAYTON/GRANINGOR INST.</u>
				<u>DIAGRAM Remove Rudder &amp; ELEVATORS to rebalance flight</u>
				<u>(FACTORY) controls, install bonding straps on all hinges.</u>
				<u>C/W AD A074-07-12 Bendix Ign. Sw Check SB 198A</u>
				<u>ON TRIM TABS PCW on Part 1 &amp; 2. Check AD</u>
				<u>NOTES THRU 2000-6. All systems normal on ground</u>
				<u>RUN.</u>
				<u>over cont.</u>


DATE 19__	RECORDING TACH TIME	TODAY'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.)
4/10/2000	HM 2743.7			I CERTIFY THAT THIS <u>AIRCRAFT</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.  CENTURION AIR MAINTENANCE  <u>AP28120192A</u>
6-14-00	HM 2761			INSTALLED OVERHAULED GENERATOR S/N A 128795 OPS CR OKAY   AEP1731350

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6-22-00	Hobbs 2781			INSTALLED L/H GENERATOR P/O 1105055 S/N A-153326 OPS CHECK GOOD   AEP1731350
<p>N# 171Z Hobbs: 2789.2 Date: 7/5/2000 WO#101273</p> <p>1.) Completed Aero Commander 50 hour inspection.</p> <p>2.) Ran and leaked checked</p> <p>Joshua Bradford AP541157654 </p>				





DATE	
19	3/29/01 Hobbs: 2866.5 Removed Bendix FCS-810 Flight Director/HSI System. Installed S-TEC System 65 Programmer p/n# 0142-2, GPSS p/n# 01278-2, Turn Co-Ordinator p/n# 6405-28L and Altitude Selector p/n# 0140, Roll Computer p/n# 0110-8T, Remote Annunciator p/n# 01188, Roll Servo p/n# 0106-R9, Pitch Servo p/n# 0108-P4, Trim Servo p/n# 0106-T10, Transducer p/n# 0111 in accordance with STC # SA7164SW-D. Interfaced System 65 and Altitude Selector with (all installed under separate 337) Bendix/King KEA-130 Encoding Altimeter, Sandel SN3308 EHSI and #1 Garmin GNS-430 Nav/Com/GPS. Installed FAA Approved Flight Manual p/n# 89832, dated 11/08/89. Removed Wulfsberg RT-9600F/C-962A FM Transceiver system, King KN-65/KI-265 DME system, KDF-800/KFS-580 ADF system, 2 ea. KNR-600A/KFS-560 Nav system, 2 ea. KTR-900A/KFS-590A Com system, KAA-445/KA-37 Audio system, KI-226 RMI, KGM-690 Glideslope Receiver, KNI-520 Vor/Loc/GS Indicator, Narco ELT-10, Northstar M3 GPS system, 2 ea. Aerosonic Encoding Altimeter, Sigtronics SPA-400 Intercom, AN5820-TI Turn and Bank, AIM P-10A Inverter, NAT RS-08/PB-08 Remote Switch and JEM 500 Tone Encoder. Installed dual Garmin GA-56 GPS antennas, ELT-910 antenna and CI-121 Aux AM antenna antennas utilizing existing or fabricated doubler plates in accordance with AC43.13-2A, chapter 38. Recut pilots, co-pilots, eyebrow and circuit breaker panels utilizing .105 5051 aluminum and reinstalled utilizing existing mounting. Attached radio panel blank Beechcraft p/n# 35-344234 over radio panel cutout in co-pilots panel. Installed 2 ea. Garmin GNS-430 GPS/Com/Nav p/n# 011-00280-00, NAT TH-250 FM Control, DP-12 Keypad and NAT CC-450 Repeater in radio panel blank. Installed RCA 26BK-9 Electric Horizon, United 5934P-3.A198 and Bendix/King KNI-582 RMI in co-pilots panel. Installed #1 and #2 Aircom ACS-1278 Audio Controllers, Narco ELT-910 Remote Switch, Bendix/King KDI-572/574 DME Indicator with control switches and KA-25A pilot/co-pilot speaker switches in eyebrow panel. Installed Sigma Tek 5000B-40 Artificial Horizon, Bendix/King KI-206 Vor/Loc/GS/GPS Indicator, KEA-130 Encoding Altimeter, KR-87 ADF Receiver, KT-70 Transponder and Sandel SN3308 EHSI in pilots panel. Installed audio junction terminal strips p/n# MS27212-1-20 with covers p/n# MS18029-1S20, 2 ea. Bendix/King KA-25A Speaker Amplifiers and NAT AA34-300 Radio Adapter on existing shelf in nose avionics bay. Installed Comant CI-502 Vor Coupler and Comant CI-503 Glideslope Coupler behind co-pilots panel. Installed #3 ACS-1278 Audio Controller behind co-pilot on side wall and ACS-700-3 Intercom Expansion Unit below #3 ACS-1278 behind interior. Installed Bendix/King KDM-706 DME, KMR-675 Marker Beacon, KG-102A Directional Gyro, 2 ea. NAT NTX-138N FM Transceivers, Narco ELT-910 Flitronics PC-125 Static Inverter, ACK AK-950 Noise Filter, AC Fuse Holder p/n# 3453LF2A and AC Fail Relay p/n# 2TR-4971 on existing shelf in aft avionics bay. Installed 3 ea. MS24187-D1 avionics, alternate avionics and emergency buss relays, 2 ea. Fuse blocks p/n# 4164, 35A Fuse p/n# ANL-35 and ACK AK-950 Noise Filter in aft junction box. Installed Bendix/King KMT-112 in tail cone utilizing existing mount bracket. Interfaced SN3308 with KG-102A and KMT-112.

DATE	
19	Interfaced KR-87 with SN-3308 and KNI-582. Interfaced 2 ea. GNS-430, KDM-706A, KR-87, KMR-675, 2 ea. NTX-138N and ACS-700-3 with 3 ea. ACS-1278. Interfaced #1 GNS-430 with SN3308, KNI-582, KDM-706A and S-TEC System 65 Autopilot (installed under separate 337). Interfaced #2 GNS-430 with SN3308, KNI-582, KI-206 and KDM-706A. Interfaced KEA-130 with 2 ea. GNS-430 and KT-70. Interfaced PC-125 with SN3308 and KNI-582. Interfaced KMR-675 with SN-3308 and existing KA-35 Marker Lights. Interfaced TH-250 with DP-12 and 2 ea. NTX-138N. Interfaced CC-450 with 2 ea. GNS-430 (Com) and 2 ea. NTX-138N. Replaced coax cables with RG-400 and RG-393. Utilized existing Com/Nav/Glideslope, Transponder and Marker Beacon antennas. Equipment installed in accordance with Garmin installation manual p/n# 190-00140-02, Rev. H, dated 9/00; Garmin GA-56 Antenna Installation Instructions p/n# 190-00094-00 Rev. B; AC20-138 Chapter 8; Sandel p/n# 90106-IM, Rev. G, dated 10/27/00; Narco p/n# 03754-0621, Dated 1/92; Aircom p/n# ACS1278-300-USFS, Rev 2.6; p/n# ACS700-3, Rev 2.2; ACK p/n# IM-950, Rev D1; Bendix/King p/n# 006-00137-0004, Rev 4, dated 3/88; p/n# 006-00184-0005, Rev 5, dated 12/96; p/n# 006-00177-0004, Rev 4, dated 10/93; p/n# 006-00093-0003, Rev 3, dated 6/97; p/n# 006-00673-0002, Rev 2, dated 7/97; p/n# 006-00193-0002, Rev 2, dated 5/88. The electrical load was computed and does not exceed 80% of full capacity. GPS installation is a follow on approval based on Garmin STC# SA00705WI in a Piper PA-32. SN3308 installation is a follow on approval based on Sandel STC# SA00696LA in a Beechcraft F-33. Installed Flight Manual Supplement for GNS-430 and SN3308 dated 2/13/01. Aircraft placarded "GPS Not Approved for IFR" pending flight accuracy evaluation at which time the placard can be removed. Sunair, Inc. reweighed aircraft. Logbook entry made. Instructions for Continued Airworthiness: Upon reinstallation of any of the above described components perform post installation functional tests in accordance with above referenced installation manuals as revised. Instructions for Continued Airworthiness include the requirement to replace the SN3308 projection lamp within the first 200 hours and every 200 hours thereafter, or every calendar year, whichever comes first. See S-TEC p/n# 81377 and p/n# 81487 for autopilot maintenance. Performed altimeter/encoder correlation iaw FAR Part 43, Appendix E, Paragraph C. Leak checked static system iaw FAR Part 23.1325, Paragraph b(2)i. Transponder system has been inspected and tested as required by FAR Part 91.413 and found to comply with FAR Part 43, Appendix F.
	 William Dolf Leading Edge Avionics, Inc. FAA CRS# QLDR577K

N171Z, Commander 500B, S/N 1450-159 W.O. 4554 May 25, 2001

ACTT: 10053.4 hours/hobbs 2869.5 hours

L. engine S/N L-5456-48, TSO: 464.3 hours

R. engine S/N RL-8770-48, TSO: 777.2 hours



Performed 100 hour/annual inspection IAW FAR43, Appendix D and Forest Service Report FS5700-F. AD's researched through 2001-10. Note: the inspection was performed per the Forest Service Checklist (which meets the requirements of FAR43, App. D), however some overhaul/replacement/inspection items listed only in the Forest Service inspection schedule (not required by FAR's or Commander) were not done per the customers request. Complied with the recurring requirements of AD76-07-12 "Bendix Ignition Switch". Determined AD2001-07-03 "Hartzell Y shank propellers" is not applicable by propeller serial numbers. Performed **transponder certification** per FAR91.413 and **altimeter certifications** per FAR91.411. Performed annual **seat belt** inspection. Performed annual/1000 hour **fuel quantity system** calibration. Performed 1000 hour **fuel quantity transmitter** inspection. Replaced **hydraulic reservoir filter**. Performed Commander SB222 "Inspection and Repair of Corrosion on Engine Mounts", dated Sept. 8, 1999 by replacing corroded left and right engine mounts with *new* mounts using Commander parts kit No. SB222-1. Performed Commander SB230A "Magnesium Fuel System

Parts Replacement", dated Mar. 8, 2001, by replacing fuel sump with a *new* aluminum sump P/N 630183-501 and replacing fuel filter bodies with *new* aluminum bodies P/N 630194-501. Determined the 500 hour recurring inspection per SL376 "Inspection of Landing Gear Clevis and Drag Brace Installations" is not due at this time. Installed provisions for copilot shoulder belt on cabin sidewall per Aero Air LLC Drawing No. AEA106-90, dated 5-11-01. Shoulder belt is not to be installed until FAA approval of this installation. Investigated reported clicking noise during taxiing on left MLG. No defects noted. Corrected elevator trim indication error by resetting potentiometer per the Maintenance Manual. Cleaned and reshimmed NLG steering collar. Installed new Hoskins fuel totalizer memory battery P/N A76. Corrected crossed leads at EGT indicators. Repaired wiring at right wing inspection light. Charged and serviced battery. Replaced all four forward lower rudder cable pulley brackets with *new* brackets P/N 530065-5 and P/N 530065-6. Replaced tail position light bulb and repaired broken ground wire. Replaced MLG bungees with *new* bungees P/N 9044. Stop drilled and patched minor cracks in lower cowl per AC43-13. Replaced light bulbs as needed.



Performed landing gear swings and lubricated aircraft.



### APPROVAL FOR RETURN TO SERVICE

I certify that the above aircraft/engine has been inspected IAW a 100 hour/annual type inspection and has been determined to be in an airworthy condition on the above date IAW the requirements of FAR91.409(f).

Signed:

Inspector, Aero Air LLC, CRS 09IR003Y  
2050 NE 25 Ave. Hillsboro, OR 800-448-2376

[illegible]

N171Z

W.O. 4554

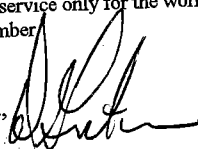
May 31, 2001

Installed Copilots single shoulder belt inertial reel/belt P/N P/N FN000058-0D-010 in accordance with Aero Air LLC Drawing No. AEA106-90, "Shoulder Strap Inst.", Rev. IR, dated 5-11-01 which is structurally substantiated in Volant Technica Document No. VT-AEA106-25, "Structural Substantiation-Inertial Reel Shoulder Harness Installation-TC500B, S/N 1450-159", Rev. A, dated 5-30-01, which is approved on FAA form 8110-3 prepared by Peter Pupator, DERT 635895-NM, dated 5-31-01. A field approved FAA form 337 is filed with the FAA and a copy placed in the aircraft records.

## APPROVAL FOR RETURN TO SERVICE

I certify that the above aircraft was inspected and repaired in accordance with current FARs is approved for return to service only for the work performed. Pertinent details are on file at this agency under the above work order number.

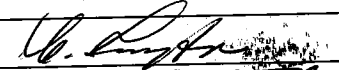
Signed,




Inspector, Aero Air LLC, CRS# 09IR003Y  
2050 NE 25<sup>th</sup> Ave. Hillsboro, OR 800-448-2376



DATE 19__	RECORDING TACH TIME	TODAY'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.)
6/29/01	HM 2890.7			Remove Eng due to oil press low to GOU Sent to PREM. INC. ENGS - TROUTDALE, OR. for Repairs. <i>Up Dayton</i> AP 22180917A
7/18/01	HM 2890.7			Re-INSTALL ENG AFTER REPAIRS by PREM. (see USED NEW TURBO GASSETS & SEALS. INST IAW 500B S.M. Ops & LEAK CK NORMAL. PR R/H CHT PROBE AN 5546-1 Ops & LEAK CK NORMAL. FIT TEST GOOD. <i>Up Dayton</i> AP 22180917A

DATE 19__	RECORDING TACH TIME	TODAY'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.)
12/10/01	HM 2914.7			Perform 50 hr INSP IAW USFS INSD
TT	10,098.6			Guide SERV. BAT. Brakes TIRES CK
				AD's THRU 2001-13.
				I CERTIFY THAT THIS <u>AIRCRAFT</u> HAS BEEN INSPECTED
				IN ACCORDANCE WITH A <u>50 hr</u> INSPECTION
				WAS DETERMINED TO BE IN AIRWORTHY CONDITION.
				CENTURION AIR MAINTENANCE  <u>AT 2212019734</u>

DATE 2001	RECORDING TACH TIME	TODAY'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.)
8/2/01	HM 2968.5			Perform 100 hr ON AIRCRAFT, SERVICE battery, brakes
Time	10,149.4			TIRES, HYD RESER. JACK AIRCRAFT + check L/G OPER.
Heater HM	661.5			EMER EXT. & WARNING SYSTEM, PACK ALL wheel bearings
				Lube gear. Check ECT for operation IAW FAR
				91:207 D BAT EXP 04/02 Check controls & lube
				CK AD's THRU 2001-15. Chw AD 76-7-12 ON Pkg Sutures <sup>at</sup> 1000
				I CERTIFY THAT THIS <u>AIRCRAFT</u> HAS BEEN INSPECTED
				IN ACCORDANCE WITH A <u>100 hr</u> INSPECTION AND
				WAS DETERMINED TO BE IN AIRWORTHY CONDITION.
				CENTURION AIR MAINTENANCE  <u>AT 2212019734</u>


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DATE	RECORDING TACH TIME	TODAY'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.)
19 2001				
12/4	HODDS	3082.3		<p>INSTALLED NAT 7516- 3/4" # 2892            REMOTE SWITCH AND INTERLOCKS            WITH EXISTING SN3308 BUS, #1 &amp; #2 GNS430 - NAVG. CHANGE TO            WT &amp; BALANCE. UPDATED SN3308            AND GNS430 FLIGHT MANUALS.            REPLACED SN3308 BULB w/ 7/8" #            57N 90122 KIT.</p> <p><del>WDD</del> #2464679            LEADING EDGE AVIONICS            FAA APPROVED REPAIR STATION NO. QLD577K</p>

[illegible]

DATE 19__	RECORDING TACH TIME	TODAY'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.)
2002	HM			
3/01/02	3087.2			PERFORM ANNUAL INSP IAW VSF5 INSP Guide
TTAF	10,268.1			1 FAR 43 App D. SERVICE battery, brakes, tires
HAM	661.5			Hyd loss. CHECK ELT IAW FAR 91:207 D BAT
				Exps 4/02. JACK AIRCRAFT AND CHECK
				L/G OPERATION, EMER EXT & WARNING system
				RXR BUNGIES 9044. Remove rudder cables
				(Frayed) Sent to McFarlane Av. ProA to
				copy cables (See form) REINSTALL AND SET
				TENSION IAW 500B S.M. Reset ELE TRIM
				CABLE TENSION IAW 500B S.M. OPS & 1st
				NORMAL. PERFORM 100 hr ON HEATER, clean
				filter, plug INSP for leaks OPS

DATE 19__	RECORDING TACH TIME	TODAY'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.)
				IND LEAK TEST NORMAL. TEST ALL LEAKS FOR operation.
				C/W AD 76-12-7 ON Ign Switches due ea 100 hr OR good
				CHECK AD NOTES THRU 2002-04.
				I CERTIFY THAT THIS <u>AIRCRAFT</u> HAS BEEN INSPECTED
				IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND
				WAS DETERMINED TO BE IN AIRWORTHY CONDITION.
				CENTURION
				AIR
				MAINTENANCE  <u>AP 25120121A</u>



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DATE 19__	TOTAL TIME IN SERVICE	Reference of Major Repairs and Major Alterations To FAA Form ACA-337 by Date, or to the Work Order by Number and the Approving Agency
5/8/02	HMM 3119	Remove & Replace Fire EXTINGUISHER NO wgt & Dal change. P/N A1600 V. Snytn AP 22/20/2002

06/07/02 Hobbs: 3130.6 N171Z

Removed the existing Garmin GNS-430 S/N 96308805 from the aircraft and replaced with S/N 97108038. Reconfigured the unit for the aircraft. Removed the existing Bendix/King KT-70 transponder P/N 066-01141-0101 S/N 12295 due to intermittent failure. Replaced with KT-70 S/N 14726. Ramp checked, good. Transponder tested as required by FAR Part 91.413 and meets the requirement of FAR Part 43, Appendix F.

Ronald Wallace Repairman #2581661  
Leading Edge Avionics, Inc.  
CRS #QLDR577K

DATE 19__	TOTAL TIME IN SERVICE	Reference of Major Repairs and Major Alterations To FAA Form ACA-337 by Date, or to the Work Order by Number and the Approving Agency
6/07/02	HMM 3130.7	Service battery, brakes, tires, Hyd system Repair co-pilot's seat. OK AP'S THRU 2002-9
		I CERTIFY THAT THIS <del>AIRCRAFT</del> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>50 M. USFS</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.
		CENTURION AIR MAINTENANCE
		V. Snytn AP 22/20/2002

DATE	TOTAL TIME IN SERVICE	Reference of Major Repairs and Major Alterations To FAA Form ACA-337 by Date, or to the Work Order by Number and the Approving Agency
19		

**FLIGHTCRAFT**  
a PAPE GROUP company

FAA CRS FCPR831D  
7777 N.E. Airport Way  
Portland, OR 97218

DATE 4/16/2002 TAC/HM 3107.7 N# 171Z

Weighed Aircraft with fuel drained using Road Runner wheel weigh system IAW Aero Commander 500B Flight manual.  
LH main 2368 RH main 2328 Nose Wheel 474. Revised weight and balance section of AFM.

W.O.# 100677

Flightcraft Portland RS# FCPR831D

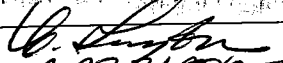

*Bruce Stephanson*  
Bruce Stephanson

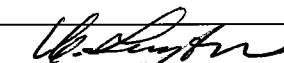
7/16/02	3167.4	R&R LH GENERATOR P/N 1105055 A-197648 TORQUE & SAFETY FLASH FIELD OPS OK NORMAL. See 8130

*U. Luyten*

AP 201 201977

DATE	A.D. NUMBER	TOTAL TIME IN SERVICE	Airworthiness Directives Chronological Listing of Compliance and Method of Compliance
19			
7/13/02	MM 3181.0	TTAF 10,361.9	PERFORMED ANNUAL/100hr INSP IAW USFS INSP guide. SERVICE BATTERY, BRAKES, TIRES, HYD PAPER PACK RESE. JACK AIRCRAFT, CHECK L/GEAR OPERATION EMER EXT. & WARNING SYSTEM. R&R L/H TIRE W 850 X10 X8 F1T. CUST II PACK ALL wheel BEARINGS. CK ELT FOR OPERATION IAW FAR 91.207 D BAT EXP. MARCH/04 R&R PILOT'S SEAT RAILS. R&R L/H VOLT REG PIN V300-28-50 - FLASH FIELD See 8130. C/W AD 76-7.12 ON BEND, Ign Switches. OK good due ea 100hr. AD 94-04-13 SPARE CAP due @ Hourmeter 3492. CK AD'S THRU 2002-12. All systems Annual ON RUN-UP. (OVER)
4/16/02	HM 6661.5		

DATE 19__	A.D. NUMBER	TOTAL TIME IN SERVICE	Airworthiness Directives Chronological Listing of Compliance and Method of Compliance
7/13/02	3181.0		<p>I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>100hr</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</p> <p>CENTURION AIR MAINTENANCE  <u>AP22100195A</u></p>
7/14/02	3181.2		<p>RFR Left Gen, P/N 1105054RX S/N A103710 S/N NONE New O/H. Aero Elec See 8130 Ops OK NORMAL - Field was Packed According to 500B S.M.  <u>AP22100195A</u></p>

DATE 19__	TOTAL TIME IN SERVICE	Manufactures' Mandatory Service Bulletins Chronological Listing of Compliance and Method of Compliance
8/14/02	3220.9	<p>Perform VSFS 50 HOUR INSP. SERVICE BATTERY, DRUGS TIRES, Hyd. Rese. Check Oupits, Water. Remove &amp; Replace LH GEN W P/N 1105054RX S/N A127963 R+R BOTH L &amp; R Volt. Reg P/N VR300-28-50 <sup>8130</sup> 8130's R+R PARALLELING RELAY P/N DGP-2. Flash fields Ops check NORMAL. All systems NORMAL on ground RUN. Check AD's thru 2002-14.</p> <p>I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>VSFS 50hr</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</p> <p>CENTURION AIR MAINTENANCE  <u>AP22100195A</u></p>

DATE 19__	TOTAL TIME IN SERVICE	Equipment Addition, Removal or Exchange				
		Item	Manufacturer's Name	Model	Serial Number	
9/11/02	HM 3261.4	PERFORM ANNUAL INSP IAW FAR 43 App D & USFS INSP guide. SERV. BAT, BRAKES, TIRES, Hyd Reservoir, JACK AIRCRAFT & CHECK 46 OPERATION EMER EXT & WARNING SYSTEMS. PACK ALL wheel bearings & lub & gear. RTR BUNGERS PIN 9044. CR CLT IOW FAR 91:207 D OK good BATTERY 03/04. HEATER WAS REMOVED FOR REPAIRS CB RICK & SECURED PANEL PLACARDED - FUEL + ELEC LOUN. were secured. CHECK ALL PLT. CONTROLS FOR TRAVEL & SECURITY - lubed. OK				<input type="checkbox"/> Addition of Optional Equipment <input type="checkbox"/> Removal of Optional Equipment <input type="checkbox"/> Addition of Required-Exchanged for Optional <input type="checkbox"/> Removal of Required-Exchanged for Optional
TTAF	10450.5 10,442.3	PERFORM 50 HR INSP IAW USFS 50m INSP. guide. SERV. BAT. BRAKES, TIRES, Power PAK. REINSTALL HEATER (See yellow tag) RPS & GND OK NORMAL CR ADIS 2002-17				<input type="checkbox"/> Addition of Optional Equipment <input type="checkbox"/> Removal of Optional Equipment <input type="checkbox"/> Addition of Required-Exchanged for Optional <input type="checkbox"/> Removal of Required-Exchanged for Optional
HM	6615	I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH A 50m USFS INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.				<input type="checkbox"/> Addition of Optional Equipment <input type="checkbox"/> Removal of Optional Equipment <input type="checkbox"/> Addition of Required-Exchanged for Optional <input type="checkbox"/> Removal of Required-Exchanged for Optional
		CENTURION AIR MAINTENANCE				<input type="checkbox"/> Addition of Optional Equipment <input type="checkbox"/> Removal of Optional Equipment <input type="checkbox"/> Addition of Required-Exchanged for Optional <input type="checkbox"/> Removal of Required-Exchanged for Optional
		ADIS TMM 2002-16 AD 94-04-13 ON Cap Spar due @ HM 3492. TT 10676 CUN 76-7-12 ON TANSW OK 9074				<input type="checkbox"/> Addition of Optional Equipment <input type="checkbox"/> Removal of Optional Equipment <input type="checkbox"/> Addition of Required-Exchanged for Optional <input type="checkbox"/> Removal of Required-Exchanged for Optional

DATE 19__	TOTAL TIME IN SERVICE	Equipment Addition, Removal or Exchange				
		Item	Manufacturer's Name	Model	Serial Number	
9/11/02	HM 3261.4	PERFORM ANNUAL INSP IAW FAR 43 App D & USFS INSP guide. SERV. BAT, BRAKES, TIRES, Hyd Reservoir, JACK AIRCRAFT & CHECK 46 OPERATION EMER EXT & WARNING SYSTEMS. PACK ALL wheel bearings & lub & gear. RTR BUNGERS PIN 9044. CR CLT IOW FAR 91:207 D OK good BATTERY 03/04. HEATER WAS REMOVED FOR REPAIRS CB RICK & SECURED PANEL PLACARDED - FUEL + ELEC LOUN. were secured. CHECK ALL PLT. CONTROLS FOR TRAVEL & SECURITY - lubed. OK				<input type="checkbox"/> Addition of Optional Equipment <input type="checkbox"/> Removal of Optional Equipment <input type="checkbox"/> Addition of Required-Exchanged for Optional <input type="checkbox"/> Removal of Required-Exchanged for Optional
TTAF	10450.5 10,442.3	PERFORM 50 HR INSP IAW USFS 50m INSP. guide. SERV. BAT. BRAKES, TIRES, Power PAK. REINSTALL HEATER (See yellow tag) RPS & GND OK NORMAL CR ADIS 2002-17				<input type="checkbox"/> Addition of Optional Equipment <input type="checkbox"/> Removal of Optional Equipment <input type="checkbox"/> Addition of Required-Exchanged for Optional <input type="checkbox"/> Removal of Required-Exchanged for Optional
HM	6615	I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH A 50m USFS INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.				<input type="checkbox"/> Addition of Optional Equipment <input type="checkbox"/> Removal of Optional Equipment <input type="checkbox"/> Addition of Required-Exchanged for Optional <input type="checkbox"/> Removal of Required-Exchanged for Optional
		CENTURION AIR MAINTENANCE				<input type="checkbox"/> Addition of Optional Equipment <input type="checkbox"/> Removal of Optional Equipment <input type="checkbox"/> Addition of Required-Exchanged for Optional <input type="checkbox"/> Removal of Required-Exchanged for Optional
		ADIS TMM 2002-16 AD 94-04-13 ON Cap Spar due @ HM 3492. TT 10676 CUN 76-7-12 ON TANSW OK 9074				<input type="checkbox"/> Addition of Optional Equipment <input type="checkbox"/> Removal of Optional Equipment <input type="checkbox"/> Addition of Required-Exchanged for Optional <input type="checkbox"/> Removal of Required-Exchanged for Optional