

THE **adlog**TM AIRCRAFT
MAINTENANCE
RECORDKEEPING
SYSTEM

**AIRFRAME
MAINTENANCE
RECORDS**



AIRFRAME MAINTENANCE RECORDS

Log No. 2

Aircraft Registration No. 5813F

Aircraft Mfg. Mooney Model M 20 J Serial No. 24-1563

Engine Mfg. Lycoming Model IO 360-A3B00 Serial No. L-24181-51A

Engine Mfg. _____ Model _____ Serial No. _____

Propeller Mfg. McCawley Model B2D34C 214 Serial No. 850222

Hub Design No. _____ Hub Serial No. _____

Blade Design No. 90DHB-16E Blade Serial No's. FB 093

FB 096

Propeller Mfg. _____ Model _____ Serial No. _____

Hub Design No. _____ Hub Serial No. _____

Blade Design No. _____ Blade Serial No's. _____

(All applicable information must be filled in)

AERO
TECH PUBLICATIONS INC.
P.O. BOX 528 / OLD BRIDGE, NJ 08857

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
4-7-87	534	534	R.F.R. Turbometer PH 880059-507 Replaced CHT probe, opps ok OK, Install Maint Hobbs Meter Reading 00.00 Replaced Fuel Selector Valve (500HP) replacement. AERO VENTURE INC. Trenton-Robbinsville Airport Robbinsville, N.J. 08691 587-1250 585-9527 1959441JA

MAINTENANCE RELEASE

The appliance identified on the reverse side 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 repair are on file at this repair station under

Work Order No. 12592
P.O. No. SM3264
Date Dec. 1, 1986
Signed R. T. M. M.



B&D INSTRUMENTS, INC
209 W. MAIN
Valley Center, Kansas 67147

F.A.A. CERTIFICATE
NO. CRS-322-20

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTAL brought forward from previous page			
10/26/87	685		Replaced L. Main Tire and Brake Linings. Cleaned & Repacked Bearings, OPS check OK PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # 7040 DATE 10/26/87 HOBBS Authorized Signature <i>H. Blum</i> TACH 685 PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128
11-9-87	698	—	INSTALL NEW GILL G-35 BATT. S.N. 60794192. OPS. CK. O.K. PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # 7040 DATE 11-9-87 HOBBS Authorized Signature <i>H. Blum</i> TACH 698 PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128
12/3/87	4T 716 Hobbs		1.) Inspected Airframe F/A/W Mooney Checklist. 2.) Standard Service items c/w. 3.) Standard and Emergency gear Extension checks O.K. 4.) Lubed Airframe F/A/W checklist. 5.) Replaced vacuum system central Air Filter, Next due @ 1216 hrs. P/N D9-18-1. 6.) Installed new brake linings P/N 66-30 on Right main wheel Assy. 7.) A.D.S checked thru issue 87-22. 77-23-04 D.M.A. 85-23-07 P.C.W 85-25-02 P.C.W. 86-05-02 D.N.A. 87-20-05 D.N.A. 87-04-19 D.N.A. 87-06-09 D.N.A. 8.) C/w A.D. 85-24-03 Para. 8 by installing New O-rings in both Fuelcups (P/N MS 29513-338 and -010) Next Due @ 816 TT or 12/88. 9.) C/w A.D. 78-09-07 F/A/W Bendix S.B. 599B Impulse Coupling Insp. No defects. Next due @ 1216 TT. Aircraft is Approved for Return to Service. Joe Ferrelli ATP 84603733
I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR. DEFERRED TO BE IN AN AIRWORTHY CONDITION. THIS INSPECTION ARE ON FILE WITH THIS STATION UNDER W/O # 7096 TIME 716.0 DATE 12-3-87 FOR SIGNED <i>H. Blum</i> PANORAMA FLIGHT SERVICES INC. QRS 111-128			
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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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1/25/88	803		Replaced Rt Main tire, ops check OK <i>end</i> PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # DATE 1/25/88 HOBBS Authorized Signature <i>JTBlinch</i> TACH 803 PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128
2/5/88	814	814	Insp Airframe I/A/w Mooney Checklist All standard service items c/w Standard & Emergency Gear Extension checks OK TTAF 814 Lubbed Airframe I/A/w MOONEY checklist TTE 814 Replaced Vac. Reg. Filter TTP 814 c/w AD 85-24-03 By Replacing Both O-Rings Eng TBO 2000 HRS in Both Fuel Caps. Next Due 914 HRS Prop TBO 1500 HRS Neutralized Batt. Acid on AFT Avionics Shelf ELT Due sept 89 Removed Corrosion From Aft Avionics Shelf Next Annual Due Feb 89 Painted Affected Areas of Aft Avionics Shelf with Stat Plc Due Aug 89 Bituminous Paint — <i>end</i> — Aft Due Aug 89 <i>James Poirer A9P120543775</i> XPDR Due Aug 89 I CERTIFY THAT THIS Aircraft HAS BEEN INSPECTED IN ACCORDANCE WITH AN Annual INS. 111-128 HAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. PARTS OF THIS INSPECTION ARE ON FILE WITH THIS STATION UNDER W/O # 7193 TIME 814 DATE 2/5/88 SIGNED <i>JTBlinch</i> FOR PANORAMA FLIGHT SERVICES INC. CRS 111-128
2/7/88	820	Hobbs	Replaced VOLTAGE REGULATOR PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # 7187 DATE 2/7/88 HOBBS Authorized Signature <i>JTBlinch</i> TACH 820 PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128

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5/16/88	910		Replaced Left Main Tire, cleaned & Repacked Bearings ops checked OK — end — PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # 7346 DATE 5/16/88 HOBBS Authorized Signature <i>[Signature]</i> TACH 910 PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128
5/21/88	911	Hobbs	Performed inspection I/A/W mooney check list. Performed gear retraction test + emergency extension check. cleaned + repacked all wheel bearings. I CERTIFY THAT THIS <u>AIRFRAME</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>100 HR.</u> INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. DETAILS OF THIS INSPECTION ARE ON FILE WITH THIS STATION UNDER WIO # <u>7382</u> TIME <u>911</u> DATE <u>5/21/88</u> SIGNED <i>[Signature]</i> FOR  PANORAMA FLIGHT SERVICES INC. CRS 111-128
5/27/88	911	Hobbs	Replaced VOLTAGE REGULATOR AND ADJUSTED. REGULATOR PN VR-415-F PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # <u>7401</u> DATE <u>5/27/88</u> HOBBS Authorized Signature <i>[Signature]</i> TACH 911 PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128 

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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July 29, 1988,	Hobbs 1011.0		TTAF 1011.0 G/W 100 Hr Insp. IAW FAR 43 AAA D using mooney check LIST as A Guide AD Notes checked Thru BW 88-14, G/W AD 85-24-03 By Replacing Fuel cap O Rings. Installed New Bracket Air Filter . Cleaned Insp. & Repack wheel Bearings Lubed Landing Gear, Normal & Alternate Extension checks OK. Pressure Tested Muffler/ heat Exchanger found Leaks and Installed new Pn630045-50B & AB1000 GASKETS Replaced Exhaust Pipe shock mount , Dressel & Painted Prop. Rebuilt LH Brake with new O Rings & Linings. I CERTIFY THAT THIS Aircraft HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. DETAILS OF THIS INSPECTION ARE ON FILE WITH THIS STATION UNDER W/O # 7528 TIME 1011.0 DATE 7-29-88 SIGNED J.Blinde FOR PANORAMA FLIGHT SERVICES INC. CRS 111-128
8/29/88	1059 Hobbs		G/W 50 HR Insp. serviced Tires, Brake Fluid, and BATT., checked All Lights OK. Lubed Nose gear — end — James [Signature] ATP 120543775 PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # 7612 DATE 8/29/88 HOBBS Authorized Signature J.Blinde TACH 1052 PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128
			SUB-TOTAL this page
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11/21/88	1119.6	Hobbs	Performed Insp I/A/w Mooney Checklist All Standard Service Items w/with All AD's checked thru 88-21 Replaced Bracket Air Filter Element P/N BA-6205 Replaced Both Fuel Cap O-Rings in Both Fuel Caps AS per AD 85-24-03 Next Due @ 1219 HRS. Replaced All Brake Linings and Both Brake Discs Replaced Both Nose Gear Wheel Felt Grease Seals, Inspected Fuselage Structure Tubes I/A/w Mooney 5/B M20-208A No Corrosion Found - Next Due Nov 89. Cleaned & Repacked All wheel Bearings. Performed Normal Gear Retraction Test and Emergency gear Extension Check OK — End — <i>James P. Sinn</i> ASP 120543715 I CERTIFY THAT THIS ACFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. DETAILS OF THIS INSPECTION ARE ON FILE WITH THIS STATION UNDER W/O # 7801 TIME 1119.6 DATE 11/21/88 SIGNED <i>[Signature]</i> FOR PANORAMA FLIGHT SERVICES INC. CRS 111-128
1/26/89	1180	Hobbs	Complied with A.D. 88-25-11, dated Jan. 5, 1989. As per Mooney Service Bulletin M20-239, dated Sept. 28, 1988. Paul R. Marlin ASP 043582058
1/31/89	1180	Hobbs	Serviced Tires, Brake Fluid & Bath. Checked all lights Lubed Nose Gear — end — <i>James P. Sinn</i> ASP 120543715 PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # 7885 DATE 1/31/89 HOBBS Authorized Signature <i>[Signature]</i> TACH 1180 PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128

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1989			TOTAL brought forward from previous page
1-31	1180	HOBBS	REMOVED DAMAGED SKIN L-H WING TIP FROM RIB (WING STA.) 193.50 TO RIB WING STA. 210.97 FITTED & INSTALLED UPPER & LOWER SKIN SECTION PROVIDED BY THE MANUFACTURER, ALL REPLACEMENT RIVETS WERE USED AS WAS IN THE ORIGINAL SKIN. NO FURTHER DAMAGED WAS SUSTAINED TO ANY OF THE SPARS AND RIB LOCATIONS. <i>J. W. Acosta</i> 1A 1204227
4/14/89	1211	HOBBS.	PERFORMED INSPECTION AS PER MOONEY SERVICE MANUAL.
	1211	T.TAF.	ALL STANDARD SERVICE ITEMS C/W. REPLACED CENTRAL
ALTIMETER	8/89		VACUUM FILTER, NEXT DUE @ 1711 hrs. C/W A.D. 85-24-03 PARA (6)
TRANSPOUNDER	8/89		FILLER CAP INSPECTION. REPLACED O-RINGS IN CAPS. REPLACED
STATIC	8/89		LEFT MAIN TIRE. PERFORMED GEAR RETRACTION TEST AND
E.L.T.	7/89		EMERGENCY EXTENSION CHECK. S/B M20-208A PART A DUE
ANNUAL	4/90		IN NOVEMBER 89. A.D.'s CHECKED THRU ISSUE 89-06.
			I CERTIFY THAT THIS <u>AIRFRAME</u> HAS BEEN INSPECTED
			IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND WAS
			DETERMINED TO BE IN AN AIRWORTHY CONDITION. DETAILS OF
			THIS INSPECTION ARE ON FILE WITH THIS STATION UNDER
			W/O # <u>8085</u> TIME <u>1211</u> DATE <u>4/14/89</u>
			SIGNED <u>[Signature]</u> FOR
			PANORAMA FLIGHT SERVICES INC. CRS 121-128

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1989			TOTAL brought forward from previous page
5-5-89	1242	HOBBS	REPLACED RT. MAIN TIRE, GOOD YEAR FLIGHT CUSTOMS II 6-00-6 67C. S/N 72431576. CLEANED, INSPECTED + PACKED WHEEL BEARINGS. PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # 8109 DATE 5-5-89 HOBBS Authorized Signature <i>[Signature]</i> TACH 1242 PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128 AEP 79569590
5-12-89	1244	HOBBS	REPLACED LT. POWER SUPPLY MODEL # C-70211-1 S/N SP-14-02148. OPS CHECKS GOOD. PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # 8109 DATE 5-12-89 HOBBS Authorized Signature <i>[Signature]</i> TACH 1244 PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128 AEP 79569590
7-13-89	1310.2	HOBBS	PERFORMED INSPECTION AS PER MOONEY SERVICE MANUAL. ALL STANDARD SERVICE ITEMS C/W. C/W A.D. 85-24-03 PARA (B) - FUEL CAPS, REPLACED O-RINGS IN CAPS. PERFORMED GEAR RETRACTION TEST AND EMERGENCY EXTENSION CHECK. A.D.'S CHECKED THRU ISSUE 89-12. <i>Alfred H. Benda</i> I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 hr. INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. DETAILS OF THIS INSPECTION ARE ON FILE WITH THIS STATION UNDER W/O # 8276 TIME 1310.2 DATE 7-13-89 SIGNED <i>[Signature]</i> FOR PANORAMA FLIGHT SERVICES INC. CRS 111-128 AEP 79569590

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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9/11	1376	Hobbs	Replaced 1/2 main Brake Linings and Fittings at supply Tee Fitting. Press Bled System ops checked OK — end — PERTINENT DETAILS OF THIS REPAIR ON FILE UNDER WORK ORDER # <u>8400</u> DATE <u>9/11/89</u> HOBBS Authorized Signature <u>[Signature]</u> TACH <u>1376</u> PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128
9-18-89	1380	HOBBS	REPLACED E.L.T. BATTERY. ARTEX 00-60-62. CHECKED E.L.T. NEXT DUE OPS. NEXT DUE @ OCT. 91 PERTINENT DETAILS OF THIS REPAIR ON FILE @ OCT. 91 UNDER WORK ORDER # <u>8400</u> DATE <u>9-18-89</u> HOBBS Authorized Signature <u>[Signature]</u> TACH <u>1380</u> PANORAMA FLIGHT SERVICES INC. APPROVED REPAIR STATION 111-128
			ALB M. Baudas AEP 79569590
10-11-89	Hobbs 1389.2	Installed New Gill 635 battery. serviced & charged. specific gravity OK. Flushed & painted battery box. Sr G1022096. Ramp. Electrical system ops check OK. End Ticket @ Nolte AXP61463832	

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5-21-90	1524.1	1524.1	I Certify this aircraft has been inspected in accordance with an Annual Inspection and determined to be in an airworthy condition. <i>John R. Pickett</i> #014739191A
6-24-91	1676.0	1676.0	Installed new Nav light bulb in Right Nav light. Installed new Bearing and Races in Nose Wheel & Main Wheels. all Bearings packed with Grease <i>John R. Pickett</i> #014739191A
6-24-91	1676.0	1676.0	I Certify this aircraft has been inspected in accordance with an Annual Inspection and determined to be in an airworthy condition. <i>John R. Pickett</i> #014739191A
8-5-91	ACTT	1685.5	Completed Mooney SB 208B. Part A Steps 1 thru 6 and Part A Steps 9-10. Part B Steps 22 thru 27. No Wetness or Corrosion Found. <i>John R. Pickett</i> #014739191A
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PIEDMONT AVIATION SERVICES INC.

919-767-5216

P.O. BOX 525, WINSTON-SALEM, NC 27102

LOG BOOK ENTRY

N# 5813F	MODEL M20J	S/N 241563	DATE: 10-18-91
TT: 912-6	H.M./TACH:	CYCLES:	W.O.# 72894

Dynamically Balanced Prop to .9 mil. Adjusted max R.P.M.
 Replaced vacuum pump - removed S/N T160-39 installed New S/N 8AG5412
 End

APPROVED BY
C.D. Brooker
 INSPECTOR FOR
 PIEDMONT AVIATION SERVICES, INC.
 WINSTON-SALEM, N. C.
 REPAIR STATION # PAIR 208A

AS-S-004
8-89

11/17/92	9625	Removed alternator on ALY-8420 S/N 6P 000154 & reinstalled after repair by NAPA ACCESSORIES Ref W/O #29332.54510 O/S checked satisfactory & is approved for return to service. Details of work performed on file @ this facility on W/O # M2799 Tim E. G. 11/17/92 S/N 021416
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1-31-92		972.2	REMOVED OLD FUEL PRESSURE TRANSDUCER. INSTALLED UPGRADED FUEL PRESSURE TRANSDUCER AND AMPLIFIER SYSTEM. INSTALLED NEW LANDING LIGHT.
			The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Charles W. Harty</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
2-18-92		989.0	CLEARED AND OR REPAIRED WIRING AND CONNECTIONS FOR ALTERNATOR FIELD SYSTEM.
			The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Charles W. Harty</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
5/6/92	1843.6	1843.6	ANNUAL inspection completed this date Replaced Static wick on Rt Elevator, Replaced main wheel covers, installed Taxis preheater system - no change to wt and balance. Replaced lower main wheel door fairings, Replaced Left wing plastic fairing for main gear door check and service brakes, Check ELT - Batt due 12-93. Check gear retraction checked Electrical system. Installed Left and Right Rear seat intercom Jacks. Lubed Airframe. AD's listed
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			AT REAR OF LOG. I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION AT THIS TIME. <i>Jerry Shum</i> IA2040258
8-17-92	19298		Replaced spinner bulkhead with factory new. PN 680031-017 Replaced exhaust pipe support rubber bracket. Tighten loose connection on cyl head temp prot. Aired up all tires
			The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <i>Jack J. Peltier</i> for Kenosha Aero, Inc., Certificate No. KABR 076A

KENOSHA AERO
9420 52nd Street
Kenosha, WI 53144
414-658-2025
FAX 414-658-0295
Airframe Log Book Insert

12-2-92
N5813F
HOBBS: 1171.0

Installed new C.H.T. Gauge, C.H.T Probe and associated wires.

The aircraft and/or component identified above
was repaired and inspected in accordance with
current Federal Aviation Regulations and was found
airworthy for return to service.
Signed *Charles Hoff* for
Kenosha Aero, Inc., Certificate No. KABR 076A

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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KENOSHA AERO
9420 52nd Street
Kenosha, WI 53144
414-658-2025
FAX 414-658-0295
Airframe Log Book Insert

11/25/92
N5813F
HQBBS; 1170.0

Installed new CHT Gauge, P/N 640281-157. See inspection tag this page.

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.

Signed Charles W. Long for

Kenosha Aero, Inc., Certificate No. KABR 076A

Date 5-5-93 Indicates 2092.0 hrs on Fach

I certify this powerplant, airframe has been inspected according to a 100 hour annual inspection and was determined to be in airworthy condition. Total Time 2092

A.D. conformity checked through card No. 95-8M Service letters checked for compliance through Inspection check list & pertinent details changed at repair on file at this agency under work order No. 9470

RAPCO™ INC. REPLACEMENT AIRCRAFT PARTS CO. HARTLAND, WI MADE IN USA	
Air Filter	
Changed at: <u>2092.0</u> Hrs.	Next Change
Date <u>5-1-93</u>	<u>2592</u> Hrs.

T/E 2092, T/ESMOH 248.4
T/P 2092, T/PSMOH 645

Resealed top plate on RH fuel tank. Changed all tires and balanced. Adjusted gear horn to 12" Reseal oil quick drain and new seal. Send Air. speed out for repair Diebrieh see yellow Tag 5-4-93. Resealed oil dip stick tube. Tw AD 85-24-3 Water fuel by inspection and new fuel cap O-rings. Tighten wing flaps rod end bolts and adjusted left flap. Tighten left nose gear door rod end bolt. Repaired left lower gear door. Replaced Brackett air filter and made 337 dated 5-5-93. See next page

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			KENOSHA AERO 9420 52nd Street Kenosha, WI 53144 414-658-2025 FAX 414-658-0295 Airframe Log Book Insert 7-21-93 N5813F Hour meter: 1276.9 Replaced hoses from regulator to instrument vacuum gauge. The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Michael C. McElung</u> for Kenosha Aero, Inc., Certificate No. KABR 076A

SKYCOM AVIONICS, INC. 1-800-443-4490
ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

TEST ALT. x 1000 FT.	-1	0	.5	1	1.5	2	3	4	5	6	8	10	12	14	15	16
TOL. ± FT.	20	20	20	20	25	30	30	35	40	40	60	80	90	100	90	110
ACTUAL	-10	-5	0	-10	+5	-5	-5	-15	30	+5	-5	+15	+10	0	30	-25
FRICITION																
TEST ALT. x 1000 FT.	18	20	22	25	30	35	40	45	50	BARO. SCALE ERROR (TOL. ± 25 FT.)						
TOL. ± FT.	120	130	140	155	180	205	230	255	280	28.10	28.50	29.00	29.50	29.92	30.50	30.90
ACTUAL	-30	-40								1725	1740	1765	1790	0	535	895
FRICITION																
HYSTERESIS (TOL. ± 75 FT.): MAX. 50% +25 40% MAX. +20										AFTER EFFECT (TOL. 30 FT.):			CASE LEAK: OK			

ALTIMETER MAKE: <u>United</u> MODEL: <u>5035AB-151/KEA</u> S/N: <u>17928</u>	BLIND ENCODER MAKE: <u>United</u> MODEL: <u>5035AB-151/KEA</u> S/N: <u>17928</u>	TRANSPONDER MAKE: <u>King</u> MODEL: <u>KT-760</u> S/N: <u>45569</u>
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CERTIFIED ALTIMETER PER FAR 43, APP. E (b) TO 20,000 FT. TO COMPLY WITH FAR 91.411
 CERTIFIED STATIC SYSTEM PER FAR 43, APP. E (a) TO COMPLY WITH FAR 91.411.
 CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEM PER FAR 43, APP. E (c) TO COMPLY WITH FAR 91.411.
 CERTIFIED TRANSPONDER PER FAR 43, APP. F TO COMPLY WITH FAR 91.413.

The aircraft and/or 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: 11/22/97 Tach: 13184 W.O. 301562 Signed: [Signature]

☐ **TIMMERMAN FIELD**
 Milwaukee, WI 53225
 F.A.A. No. NC5R062N

☐ **CRITES FIELD**
 Waukesha, WI 53188
 F.A.A. No. NC5D062N

☒ **KENOSHA MUNICIPAL AIRPORT**
 Kenosha, WI 53144
 F.A.A. No. NC52062N

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TOTAL—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TACH. RECORDING METER TIME	LOG BOOK ENTRY	ON OF WORK PERFORMED— DATE NO. OF PERSON PERFORMING WORK
		TOTAL	 LOG BOOK ENTRY E.L.T. BATTERY REPLACEMENT DATE <u>Jan 96</u>	
12-2-93	Hobbs	1320.6	Installed new ELT battery. Installed new static drains.	The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Michael C. McClure</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
12-31-93	Hobbs	2207.1	Cleaned and lubricated front bearing on electric trim motor. Installed new right wing tip light.	The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Michael C. McClure</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
Date <u>4-11-94</u> Indicates <u>2231.1</u> hrs on <u>Tach</u> I certify this aircraft airframe has been inspected according to a 100-hour annual inspection and was determined to be in airworthy condition. Total Time <u>TTA 2231.1</u>			A.D. conformity checked through card No. <u>94-7M</u> Service letters checked for compliance through _____ Inspection check list & pertinent details of repair on file at this agency under work order No. <u>9904</u>	
Tach	2231.1		CIW AD 85-24-3 Water in Fuel Tanks, by inspection and Test, next due 2331. Replaced all landing gear rubber disc. Replaced alternator belt.	
TTA	2231.1		Replaced Nav light switch. Repaired left outboard static wick.	
TTE	2231.1			
TTESMOH	387.7			
TPP	2231.1			
TPPSMOH	784.3		The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Michael C. McClure</u> for Kenosha Aero, Inc., Certificate No. KABR 076A	
SUB-TOTAL this page				
TOTAL—Carry forward to next page				

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
7-11-94	Hobbs 2275.1		Replaced Vacuum Reg. Filter due 2475.1. Replaced Brackett Air Filter due 2475.1.
			The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Michael C. McElroy</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
8-25-94	Hobbs 2325.5		Cut to Fit and installed new plastic wall panel on pilot side. Installed new bracket and fairing on left wheel. Installed new ball joints on left and right cowl Flaps.
			The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Michael C. McElroy</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
9-12-94	Hobbs 2332.2		Sealed Fuel leak in right wing. Repaired wire to Amp. meter.
			The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Michael C. McElroy</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
9-16-94	Hobbs 2333.3		Replaced hinges on left cowl Flaps. C/W AD 85-24-3 Water in tanks, by inspection and new seal on Fuel caps. C/W AD 93-9-7 Fuel injector lines, by inspection. C/W AD 78-9-7 R3 Impulse Coupling, by inspection, X value .041.
			The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Michael C. McElroy</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
			SUB-TOTAL this page
			TOTAL—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			BLACKHAWK AIRWAYS (608) 756-1000 DATE _____ TACH. _____ This Propeller Assembly has been <u>DYNAMICALLY BALANCED</u>, using Chadwick-Helmuth Model 192. Index of propeller and related components remain the same. Static Weights were not disturbed. If <u>MAJOR WORK</u> done to Propeller and or Engine, <u>DYNAMIC BALANCE WEIGHTS MUST BE REMOVED</u>. 210° 23.6 GR <u>Kay Wixom</u> Kavin Wixom A&P 395602533

SKYCOM AVIONICS, INC. 1-800-443-4490 5813F

ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

TEST ALT. x 1000 FT.	-1	0	.5	1	1.5	2	3	4	5	6	8	10	12	14	15	16
TOL. ± FT.	20	20	20	20	25	30	30	35	40	40	60	80	90	100	90	110
ACTUAL	10	10	0	0	20	20	25	20	20	10	30	30	10	5	30	20
FRICITION																
TEST ALT. x 1000 FT.	18	20	22	25	30	35	40	45	50	BARO. SCALE ERROR (TOL. ± 25 FT.)						
TOL. ± FT.	120	130	140	150	160	170	180	190	200	28.10	28.50	29.00	29.50	29.92	30.50	30.90
ACTUAL	0	0	0	0	0	0	0	0	0	1.25	1.35	1.50	1.65	0	5.40	5.80
FRICITION																
HYSTERESIS (TOL. ± 75 FT.): MAX. 50% 20 40% MAX 0										AFTER EFFECT (TOL. 30 FT.): 10			CASE LEAK: OK			
ALTIMETER MAKE <u>United Inst</u>					BLIND ENCODER MAKE <u>United Inst</u>					TRANSPONDER MAKE <u>King</u>						
MODEL <u>KEA 130A</u>					MODEL <u>KEA 130A</u>					MODEL <u>KT-76A</u>						
S/N <u>17928</u>					S/N <u>17928</u>					S/N <u>45569</u>						
CERTIFIED ALTIMETER PER FAR 43, APP. E (b) TO 20,000 FT. TO COMPLY WITH FAR 91.411																
CERTIFIED STATIC SYSTEM PER FAR 43, APP. E (a) TO COMPLY WITH FAR 91.411																
CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEM PER FAR 43, APP. E (c) TO COMPLY WITH FAR 91.411																
CERTIFIED TRANSPONDER PER FAR 43, APP. F TO COMPLY WITH FAR 91.413																
The aircraft and/or 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: <u>4-25-95</u> Tach: <u>1506.7</u> W.O. <u>301881</u> Signed <u>Stat Wixom</u>																
☐ TIMMERMAN FIELD Milwaukee, WI 53225 F.A.A. No NC5R062N					☐ CRITES FIELD Waukesha, WI 53188 F.A.A. No NC5D062N					☒ KENOSHA MUNICIPAL AIRPORT Kenosha, WI 53144 F.A.A. No NC52062N						

Date 4-26-95 Indicates 2409.3 hrs on Hobbs

I certify this airframe has been inspected according to a 100-hour annual inspection and was determined to be in airworthy condition. Total Time 11A 2409.3

A.D. conformity checked through card No. 95-8M Service letters checked for compliance through _____
Inspection check list & pertinent details of repair on file at this agency under work order No. 10474

C/W AD 78-9-7 R3 Impulse Coupling, by inspection, due 2909.
C/W AD 85-24-3 Water in Fuel Tank, by inspection, due 2509.
C/W AD 93-2-5 Fuel injector lines, by inspection, due 2509.
Tested ELT, O.K., battery due 1/96. Reshimmed nose steering

SUB-TOTAL this page

TOTAL—Carry forward to next page

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
1-17-96			Tach: 2482.6 C/W AD 95-26-16 R1 Air Box, by inspection and Mooney kit # M20-253-01A.
			The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Michael C. McElroy</u> for Kenosha Aero, Inc., Certificate No. KABR 076A

Late Entry - Entered 2-2-96

KENOSHA AERO
9420 52nd Street
Kenosha, WI 53144
414-658-2025
FAX 414-658-0295
Airframe Log Book Insert

N5813F
21 Sept 96
Hobbs: 2465.2

Removed, cleaned and reconnected pitot tube.

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.

Signed Michael C. McElroy for

Kenosha Aero, Inc., Certificate No. KABR 076A

Date 5-1-96 Indicates 2500.0hrs on Hobbs
I certify this ~~airframe~~ airframe has been
inspected according to a ~~100-hour~~ 100-hour annual
inspection and was determined to be in air-
worthy condition. Total Time TTA 2500.0

FAI conformity checked through card
No. 96-8M Service letters checked
for compliance through _____
inspection check list & pertinent details of
repair on file at this agency under work
order No. 10960

C/W AD 85-24-3 Water in Fuel Tank, by inspection, due 2600.
E/W AD 93-2-5 Fuel Injection Lines, by inspection, due 2600.

SUB-TOTAL this page

TOTAL—Carry forward to next page

Next Page

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
			Replaced ELT battery, due 5-98. ELT operational test O.K. Replaced Vacuum Regulator Filter. Replaced Brackett Air Filter. Installed new left main tire. Repacked wheel bearings. Replaced right main gear door attaching bracket. Replaced both brake hoses. Installed new wheel cover on right wheel. Installed new valve core in nose tire. Landing gear retract test good. Installed washers left aileron rod end bolt. Installed chains on fuel caps.
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u><i>Michael C. McPherson</i></u> for Kenosha Aero, Inc., Certificate No. KABR 076A			

KENOSHA AERO
9420 52nd Street
Kenosha, WI 53144
414-658-2025
FAX 414-658-0295
Airframe Log Book Insert

7-08-96
Tach: 2516.7
N5813F

Removed starter switch and cleaned contacts, lubed and reinstalled, Tested O.K.

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.

Signed *John J. Kulla* for

Kenosha Aero, Inc., Certificate No. KABR 076A

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO OF PERSON PERFORMING WORK				
TOTAL brought forward from previous page							
7-24-96	TACH: 2518-3		TIGHTENED CANNON PLUG FOR TACH. cord. TESTED OK				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed: <u>Glenn Bruckner</u> for Kenosha Aero, Inc., Certificate No. KABR 078A							
5/7/97			MIDWEST AVIONICS Date <u>5/7/97</u> Work Order No. <u>0016</u> I certify that the automatic pressure altitude reporting system checks required by FAR 91.217 and FAR 91.411 have been performed this date and were found to comply with Part 43, Appendix E, Paragraph C. Transponder Serial No. <u>45569</u> Encoder Serial No. <u>17428</u> Signed for CRS # G9HR794N MIDWEST AVIONICS Date <u>5/7/97</u> Work Order No. <u>0016</u> I certify that the ATC transponder test and inspections required by FAR 91.413 were performed this date and found to comply with FAR 43, Appendix F. Transponder Make <u>KING</u> Model <u>KT76A</u> Serial # <u>45569</u> Signed for CRS # G9HR794N				
RAPCO inc. REPLACEMENT AIRCRAFT PARTS CO. HARTLAND, WI MADE IN USA MIDWEST AVIONICS Date <u>5/7/97</u> Work Order No. <u>0016</u> I certify that the static system checks required by FAR 91.411 have been performed this date and found to comply with Part 43, Appendix E, Para. a. Signed for CRS # G9HR794N							
Air Filter <table border="1" style="width: 100%;"> <tr> <td>Changed at: <u>2563.9</u> Hrs.</td> <td>Next Change</td> </tr> <tr> <td>Date <u>5/7/97</u></td> <td><u>2663.9</u> Hrs.</td> </tr> </table>				Changed at: <u>2563.9</u> Hrs.	Next Change	Date <u>5/7/97</u>	<u>2663.9</u> Hrs.
Changed at: <u>2563.9</u> Hrs.	Next Change						
Date <u>5/7/97</u>	<u>2663.9</u> Hrs.						
Date <u>5-13-97</u> Indicates <u>2563.9</u> hrs on <u>Tach</u> I certify this powerplant, airframe has been inspected according to a 100-hour annual inspection and was determined to be in airworthy condition. Total Time <u>2563.9</u> A.D. conformity checked through card No. <u>97-941</u> Service letters checked for compliance through <u>11366</u> inspection check list & pertinent details of repair on file at this agency under work order No. <u>11366</u>							
TTPSMOH 7203 TTPSMOH 1365 YW SI M20-93 by installing kit SI M20-93-1-1 Ran air removal-retight. Replaced Vacuum ventral filter, three clamps on fuel injection lines, O-rings in both wheel cyls. Packed all wheel bearing, and painted right gear door, one inspection plate, and lower cowling. YW AD85-24-3 Water in fuel tank by inspection next due 2663.9 HR. YW AD 93-2-5 Fuel Injection Lines by inspection next due 2663.9 HR							
SUB-TOTAL this page <u>See next Page</u> TOTAL—Carry forward to next page							

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
1997			
			TOTAL brought forward from previous page
			Reposition prop drive pipes on prop. Tighten clamps on heat X-changer scatt. Installed chapt tape on flaps. FLT operational test O.K.
			The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Kitter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
12-4-97	2594.2		Replaced right Main tire and balanced Repaired light socket on dice light,
			The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Kitter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
			REPLACE ELT BATTERY BY: MAY '00
Date <u>5-6-98</u>	Indicates <u>2603.3</u> hrs on <u>Tach</u>		A.D. conformity checked through card No. <u>78-814</u> Service letters checked for compliance through <u> </u> Inspection check list & pertinent details of repair on file at this agency under work order No. <u>11691</u>
			I certify this <u> </u> airframe has been inspected according to a <u> </u> annual inspection and was determined to be in airworthy condition. Total Time <u>2603.3</u>
			Installed new G 35 % Battery. %AD85-24-3 Water in fuel tank by inspection next due 2703.3 %AD93-2-5 Fuel injection lines by inspection next due 2703.3 %AD97-26-8 Fuel Cops by removed chain. Replaced FLT battery next due 5-00 See next page ➡
			SUB-TOTAL this page
			TOTAL—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
			<i>ELT inspected and operational test per Action Notice A8310.1 performed OK.</i> The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u><i>Jack J. Kutter</i></u> for Kenosha Aero, Inc., Certificate No. KABR 076A
			<i>7-16-98 Tach 2630.1 Removed props and replaced spinners P/N 680031-515 Installed props with new rings.</i> The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u><i>Jack J. Kutter</i></u> for Kenosha Aero, Inc., Certificate No. KABR 076A
			<i>10/14/98 2635 H.M. Removed cowling and right front belly panel to find TKS leak. Replaced fitting on TKS line and tested OK. ZN4856 Nut ZN101-12 Olive SBD1-12 seal.</i> The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u><i>Jack J. Kutter</i></u> for Kenosha Aero, Inc., Certificate No. KABR 076A

SUB-TOTAL this page

TOTAL—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTAL brought forward from previous page			
Date <u>5-14-99</u> Indicates <u>2654.1</u> hrs on <u>Tach</u>			A. D. conformity checked through card No. <u>99-1011</u> Service letters checked for compliance through <u> </u>
I certify this powerplant , airframe has been inspected according to a 100-hour annual inspection and was determined to be in air-worthy condition. Total Time <u>2654.1</u>			Inspection check list & pertinent details of repair on file at this agency under work order No. <u>11994</u>
Replaced CHT probe ^{PN} 880010-503, retract rod boots, ground wires terminal at alternator, RH Nav light, fuel gauge light, O-rings in right master cyl, fuel drain placard, and static drains.			
%AD85-24-3 Water in fuel tank by inspection next due 2754.1			
%AD93-25 Fuel Injector lines by inspection next due 2754.1 or removable.			
Patched cracked skin just aft of left lower cowling and replaced rivets on right side. FLT inspected and operational test per Action Notice A8310.1 performed (OK)			
%AD98-24-11 Aileron control links by installing new link per SB M20-264 ^{PN} 730005-1 & 730006-000 KIT M20-264-1.			
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u><i>[Signature]</i></u> for Kenosha Aero, Inc., Certificate No. KABR 076A			

(MOONEY IDENTIFICATION TAG)
PART# M20-264-001 QTY: 1

PO/WO# KIT

M
31

EXP. DATE

DATE: 05/07/98

BTN: 0101-T

ITEM: SERVICE BULLETIN KIT

IDENTIFICATION TAG

MAC CODE: 232641

QTY. 1

PART: 10-900-60/1

PO/WO#: 1381

BIN: 0901

DATE: 04/13/00

ITEM: STATIC WICK

TOTAL—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTAL brought forward from previous page			
5/26/99			
Date <u>5-8-00</u> Indicates <u>2701.5</u> hrs on <u>Tach</u> I certify this powerplant <u>airframe</u> has been inspected according to a 100-hour <u>annual</u> inspection and was determined to be in airworthy condition. Total Time <u>2701.5</u>			A. D. conformity checked through card No. <u>00-07</u> Service letters checked for compliance through _____ Inspection check list & pertinent details of repair on file at this agency under work order No. <u>12237</u>
Cleaned rust off engine mount and painted and installed new tire pressure placards. Dress prop, and reglued seal on alt air door. Replaced left fuel drain valve F391-635 and static wick on RH elevator. Repaired hole in lower cowling. Replaced RH fuel gauge in top of wing. Removed fuel flow gauge and send off for test OK. Reinstalled. Tighten KS filter and lines in bellows. Replaced E.L.T. battery next due 6-02. Replaced vacuum Reg filter, Bracket air filter, alt. belt, nose wheel tire and balance. Replaced two no push and one no step placards. Tighten nose centering bolt. Repaired RH splash guard with patch. %APB-2-5 Fuel injection lines by inspection and reposition clamp next due 2801.5 or removed. %APB-24-3 Water in Fuel Tank by inspection of fuel caps next due 2801.5. Repaired hole in left main wheel for hub cap. E.L.T. inspected and operational test per Action Notice A8310.1 performed (OK).			
			The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed _____ for Kenosha Aero, Inc., Certificate No. KABR 076A
SUB-TOTAL this page			
TOTAL—Carry forward to next page			

LOG BOOK ENTRY N5813F

ORK

5/30/00 HOBBS 2709.1 REMOVED EXISTING II MORROW LORAN C SYSTEM. INSTALLED IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS II MORROW MODEL GX50 GPS SYSTEM CONSISTING OF: GX50 GPS RECEIVER, II MORROW ACU, A-33 GPS ANTENNA AND ICARUS 3000U ALTITUDE SERIALIZER. RECOMPUTED THE ACFT WEIGHT & BALANCE AND REVISED THE EQUIPMENT LIST. FAA FORM 337 THIS DATE.

The Aircraft and/or component identified hereon was repaired and inspected in accordance with current Federal Air Regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency under Work Order No. 8367
 Date 5/30/00
 Signed [Signature]
 For: Superior Aviation, Inc.
 Ford Airport
 Iron Mountain, MI
 Repair Station #EATR437D

7-21-00 2726.8 Removed gear safety switch and replaced with new 880013507, ran gear check. Aired up tires. Replaced up limit Sw with KIT 940112.

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.
 Signed [Signature] for

Kenosha Aero, Inc., Certificate No. KABR 076A

2-2-01 2767.5 Replaced one Tanis probe and repaired wiring. Cleaned elevator trim jack screw and lubed. Serviced tires. Replaced Dip Stick O-ring. Replaced rivnut in tail panel. Repaired hole in lower cowling and trim beffling. Replaced one rivet in lower cowl support. Test run and check for leaks.

Tanis Aircraft Services Inc.

P.O. Box 117
 Glenwood, Minnesota 56334



ent identified above
 in accordance with
 gulations and was found
 as [Signature] for

ate No. KABR 076A

Name _____ Element _____ Model _____ P/N TAS100

S/N _____ Eligible On TAS 100 Systems
 For complete application and interchange listings see
 TANAIR master sheet.

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
Date <u>4-6-01</u> Indicates <u>2786.1</u> hrs on <u>H11</u>				A. D. conformity checked through card <u>TIE 2786.1</u> No. <u>01-711</u> Service letters checked for compliance through <u>_____</u> <u>TIP 2786.1</u> Inspection check list & pertinent details of repair on file at this agency under work order No. <u>12460</u>
I certify this powerplant airframe has been inspected according to a 100 hr annual inspection and was determined to be in airworthy condition. Total Time <u>2786.1</u>				
TIESMOH <u>942.5</u> TP5MOH <u>358.7</u>				
%AD <u>85-24-3</u> Water in fuel tank by inspection next due <u>2886.1</u> Removed tach and sent out for repair by manufacturer. Replaced screw in trim switch. Replaced three TRS seals under rear seat. ELT inspected and operational test per Action Notice <u>A8310.1</u> performed (OK)				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Rutter</u> for _____ Kenosha Aero, Inc., Certificate No. KABR 076A				
<u>6-13-01</u>	<u>2778.5</u>			Replaced flap up limit switch and adjusted, lubed, aired up tires. Replaced aircraft battery with F35.
%N <u>6-01931518</u> .				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Rutter</u> for _____ Kenosha Aero, Inc., Certificate No. KABR 076A				
<u>10-9-01</u>		<u>2841.0</u>		Replaced chaff tap on flaps, Nose gear doors and skin. Nose gear close OK, and cowl flaps. Check wiring and/or panel, ground off right mic jack. Replaced mic holder on center panel. Left brake lining worn replaced. Replaced left main tire, balanced, packed wheel bearings.
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Rutter</u> for _____ Kenosha Aero, Inc., Certificate No. KABR 076A				
SUB-TOTALS				Signed <u>Jack J. Rutter</u> for _____
TOTALS—				Kenosha Aero, Inc., Certificate No. KABR 076A

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
Date <u>4-10-02</u> Indicates <u>2853.2</u> hrs on <u>HM</u>				A.D. conformity checked through card No. <u>02-7M</u> Service letters checked for compliance through <u> </u>
I certify this aircraft , airframe has been inspected according to a 100 hour annual inspection and was determined to be in airworthy condition. Total Time <u>2853.2</u>				Inspection check list & pertinent details of repair on file at this agency under work order No. <u>12749</u>
TTES MOH 1009.6 TTPS MOH 425.8				
%AD 84-24-3 Water In Fuel Tanks by inspection next due 2953.2				
%AD 93-2-5 Fuel Injection Lines by inspection next due 2953.2 4-03				
Cleaned and Packed all wheel bearings. Replaced battery ground wire. Patched hole in side panel. Replaced missing zares in belly. Replaced right brake linings. Cleaned bird nest from tail. ELT inspected and operational test per Action Notice A8310.1 performed OK. Replaced right map lite bulb.				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Kutter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
Date <u>4-1-03</u> Indicates <u>2913.7</u> hrs on <u>HM</u>				A.D. conformity checked through card <u>TTPS MOH 486.3</u> No. <u>03-6M</u> Service letters checked for compliance through <u> </u>
I certify this aircraft , airframe has been inspected according to a 100 hour annual inspection and was determined to be in airworthy condition. Total Time <u>2913.7</u>				Inspection check list & pertinent details of repair on file at this agency under work order No. <u>13010</u>
TTES MOH 1070.1				
%AD 84-24-3 Water In fuel Tanks by inspection next due 3013.7				
%AD 93-2-5 Fuel Injection Lines by inspection next due 3013.7 / 4-04				
Replaced Engine Vacuum pump coupling, vacuum Reg filter, Brackett Air filter, and tighten Mic jack nuts. Replaced tail pipe support rubber, and tighten nose gear center bolt. Replaced right Wing No STEP placard, ELT battery. ELT inspected and operational test per Action Notice A8310.1 performed OK.				



SUB-TOTALS this page

TOTALS—Carry forward to next page

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.

Signed Jack J. Kutter for

Kenosha Aero, Inc., Certificate No. KABR 076A

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
7-14-03	2937.6	2937.6		Check tire pressure.
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
10-17-03	2960.1	2960.1		Checked tires, battery, brake fluid, lights, and replaced CHT probe.
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
Date <u>4-22-04</u> Indicates <u>2990</u> hrs on <u>Tach</u> I certify this aircraft <u>airframe</u> has been inspected according to a 100 <u>100</u> hour annual inspection and was determined to be in airworthy condition. Total Time <u>2990.</u> A. D. conformity checked through card No. <u>04-711</u> Service letters checked for compliance through <u>C</u> Inspection check list & pertinent details of repair on file at this agency under work order No. <u>12306</u>				
Replace drive lite bulb, both brake disc, linings and packed all wheel bearings. Replaced RH Main tire and balance. Painted nose gear and limits. %AD 85-24-3 Water in fuel tanks by inspection next due 3090. %AD 02-26-01 Fuel Injection Lines by inspection next 3090, 4-05, Removal %AD 096-12-7 Mag Impulse Coupling by inspection K-1036 next due 3490. Adjust points in Mag and timed to engine. Replace fuse in belly panel, and stop drill crack in R front baffle, RH main gear speed fairing, and left O.B. wing flap hinge cover. Replace chaf tape on nose gear doors. EKT inspected and operational test per Action Notice AB310.1 performed OK. CHT system checked for operation.				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
SUB-TOTALS this page TOTALS—Carry forward to next page				

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
2004				TOTALS brought forward from previous page
10-12-04	3027.6	3027.6		Replaced aircraft MASTER SWITCH, and installed new Voltage Reg $\frac{1}{2}$ IN R15300 $\frac{1}{2}$ IN R06045, Airup tires.
				The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
10-15-04	3028.	3028		Replaced Alternator with OH unit from Modified Aircraft Accessories $\frac{1}{2}$ IN AH4-8500 $\frac{1}{2}$ IN 25000006 $\frac{1}{2}$ IN 7740
				The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
 ARTEX AIRCRAFT SUPPLIES, INC. 14405 Kell Rd NE Aurora, OR 97002 (503) 678-7929 800 547-8901 LOG BOOK ENTRY <u>N5813F</u> E L T BATTERY REPLACEMENT DATE <u>May 2007</u> Date <u>5-4-05</u> Indicates <u>3048.1</u> hrs on <u>Tach</u> I certify this component airframe has been inspected according to a 2500 annual inspection and was determined to be in air-worthy condition. Total Time <u>3048.1</u>				
				A.D. conformity checked through card No. <u>05-08M</u> Service letters checked for compliance through <u> </u> Inspection check list & pertinent details of repair on file at this agency under work order No. <u>13566</u>
$\frac{1}{2}$ IN AD85-24-3 Fuel Contamination by inspection and pressure test next due 3148.1 $\frac{1}{2}$ IN AD02-26-01 Fuel Injection Lines by inspection next due 3148.1/5-02/Removal Replaced Vacuum central filter, EFT battery next due 5-02, nose wheel tire valve core, fuel cap O-rings, and installed chaff tape on right main gear door. Tighten all mike jack nuts, Press prop and replace left fuel drain valve, Tighten loose wires on vacuum switch. $\frac{1}{2}$ IN SB120-282 Gear Actuator Installed $\frac{1}{2}$ IN SB 20-282-001 Kit per Eaton SI103000-1-901 Rev2 Next due 1000HRS. Spring 203207-1. EFT inspected and operational test per Action Notice A8310.1 performed OK				
				The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Ritter</u> for Kenosha Aero, Inc., Certificate No. KABR 076A

203207-1

CHECKED 10-18-2004

Spring

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
Date <u>5-4-06</u>	Indicates <u>3103.4</u> hrs on <u>Tach</u>	<u>A.D. conformity checked through card</u> <u>No. <u>06-8 M</u> Service letters checked</u> <u>for compliance through <u>C</u></u> <u>Inspection check list & pertinent details of</u> <u>repair on file at this agency under work</u> <u>order No. <u>13 792</u></u>		
I certify this aircraft <u>airframe</u> has been inspected according to a 100 hour <u>annual</u> inspection and was determined to be in air-worthy condition. Total Time <u>3103.4</u>				
Repaired 2000 <u>2000</u> hole in top cowling, and replaced vacuum Reg filter, CHT probe on 143 cyl. Replaced Bracket air filter element, aircraft battery G-36, TKS filter, and nose gear tow limit placard. %AD86-24-3 Fuel Contamination by press test next due 3203.4, 5-07 Removal. %AD02-26-01 Fuel Injection Lines by inspection next due 3203.4, 5-07 Removal. Replaced all fuel and oil hoses in engine compartment, with teflon, fire sleeve. ELT inspected and operational test per Action Notice A8310.1 performed OK.				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Butler</u> for Kennebec Airmen				

Skycom

AVIONICS, INC.

AIRCRAFT LOG ENTRY

DESCRIPTION OF WORK DONE:

N# 5813F

Skycom

AVIONICS, INC.

AIRCRAFT LOG ENTRY

DESCRIPTION OF WORK DONE:

N# 5813F

Removed loaner Bendix/King KX-165 Nav/Com S/N 3003 from aircraft and reinstalled customer's Bendix/King KX-165 Nav/Com S/N P1950. Tested and found to meet MPS.

---END---

Date: 6/02/2006 Hobbs: 2133.6 W.O.# 503847 Signed [Signature]

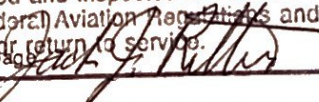
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details are on file at this agency under the above work order number.

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
AIRFRAME LOG ENTRY N5813F				
Date: 6/28/2006				
Removed Bendix/King KMA 24 audio panel, Number One KY 197 COM, KNS 80 RNAV, Number Two KX 165 NAV/COM, KT76A transponder, and II Morrow GX 50 GPS. Installed the Garmin GMA 347 s/n 47000868 with 4 place intercom, GNS 530 s/n 78416170 with interface to the existing HSI and autopilot, GNS 430 s/n 97134466 with interface to existing NAV 2 CDI, GTX 330 s/n 84122174 with interface to existing altitude encoder, and GDL 69 XM Weather with interface to the GNS 530 and GNS 430. Performed transponder test required by FAR 91.413 (a)(c) and 91.217 (b) in accordance with FAR 43, App. F. Recomputed the aircraft weight & balance and revised the equipment list. Filed the applicable FAA Form 337.				
The aircraft and/or components identified hereon was repaired and inspected in accordance with the current Federal Air Regulation and was found airworthy for return to service. Pertinent details of the repair are on file at this agency under work order No. A-10913.				
Date: 6/28/2006				
Signed: 				
Superior Aviation 250 Riverhills Road, Kingsford, MI 49802				
Repair Station No. EATR437D				
Date: <u>5-4-07</u> Indicates <u>3163.8</u> hrs on <u>Tach HM</u>				A. D. conformity checked through card No. <u>07-8M</u> Service letters checked for compliance through <u> </u>
I certify this powerplant airframe has been inspected according to a 90 <u>year</u> annual inspection and was determined to be in air-worthy condition. Total Time <u>3163.8</u>				Inspection check list & pertinent details of repair on file at this agency under work order No. <u>14011</u>
<u>% AD 85-24-3 Fuel Contamination by pressure test OK next due 32638.</u> <u>Replaced terminal at CHT probe and tighten nuts. Lubed trim drive shaft.</u> <u>Cleaned and installed chaff tape on RH flap and replaced ELT Battery</u> <u>next due 6-09 Replaced Stand by Vacuum pump SN 43609</u> <u>Removed loose rivet and installed screw and nut in lower cowling.</u> <u>Tighten loose jam nut on RH cowl flap rod end. Installed new tire and</u> <u>balance left main wheel. Tighten RH Nose gear door rod end attach bolt.</u> <u>Replaced both fuel cap O-rings. Installed chaff tape on main gear</u> <u>doors. Replaced right lower gear door and painted white. ELT inspected</u> <u>and operational test per Action Notice A8310.1 performed OK.</u>				

ARTEX	
ARTEX AIRCRAFT SUPPLIES, INC. 14405 Kei Rd NE Aurora, OR 97002 (503) 678-7929 800-547-8901	
LOG BOOK ENTRY	<u>5-4-07</u>
ELT BATTERY REPLACEMENT DATE	<u>JUN 2009</u>

SUB-TOTALS this page

TOTALS—Carry forward to next page

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.	
Signed: 	for
Kenosha Aero, Inc., Certificate No. KABR 076A	

DATE

TOTAL
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RECORDING
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TIMEDESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

TOTALS brought forward from previous page

6/13/07

corrosion X Application

by Robert Gehring LNL

*Sh. H. Gehring*10-12-07 ^{Flight} H/M 2205.6 ^{Engine} 3199.8 Checked battery, tires, lights, and fill TKS tank. Removed right top fuel tank cover and resealed.The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.
Signed *Jack J. Kitter* for

Kenosha Aero, Inc., Certificate No. KABR 076A

APR 15, 2008 10865 2214.1 Replaced RH TANK 100C BY Tightening Fuel OUTLET ASSY INSIDE CABIN. (ALBAK ACP47778355)

Date 5-16-08 Indicates 3217.6 hrs on TachI certify this aircraft, airframe has been inspected according to a ~~100~~ hour annual inspection and was determined to be in airworthy condition. Total Time 3217.6

A. D. conformity checked through card

No. 08-09 Service letters checked for compliance through CInspection check list & pertinent details of repair on file at this agency under work order No. 14252

%AD85-24-3 Fuel Contamination by inspection next due 3317.6

%AD02-26-01 Fuel Injection Lines by inspection next due 3317.6

%SB645 Mag Impulse Coupling by OH Mag installed next due 3717.6

ELT inspected and operational test per Part 91.207 performed OK

Tighten TKS fittings and saftied. Check tightness and tie up wiring on EGT. Replaced RH Main gear TB door support. Replaced Zusea in top cowling and belly pannel.

Item number



550085-501

Batch number



10042273-058067

Item name : STAND OFF ASSY

Expiry date : _____

Picking location : 220702

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.
Signed *Jack J. Kitter* for

Kenosha Aero, Inc., Certificate No. KABR 076A

SUB-TOTALS this page

TOTALS—Carry forward to next page

REPLACE ELT BATTERY BY:

MAY '11

G WORK

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESC SIGNATURE & CE
2009				
Date <u>5-4-09</u> Indicates <u>3255.8</u> hrs on <u>2204</u> TOTALS brought forward from previous page				
I certify this component aircraft has been inspected according to a 100 hour annual inspection and was determined to be in air-worthy condition. Total Time <u>3255.8</u>			A. D. conformity checked through card No. <u>09-09</u> Service letters checked for compliance through <u> </u> Inspection check list & pertinent details of repair on file at this agency under work order No. <u>14458</u>	
Replaced ELT battery next due <u>5-11</u> , replaced missing fuse in belly, %AD85-24-3 Fuel Contamination by inspection next due 3355.8, %AD02-26-01 Fuel Injection Lines by inspection next due 3355.8, OH, removed, %AD09-02-03 Fuel Injector Servo Plug and gasket by inspection, gasket, torque, sapified and "O" on plug. Replaced missing fuse in belly. Installed new bracket air filter Tie off FKS line in engine compartment. Installed wide area washer on prop control rod end. ELT inspected and operational test per FAR 91.207 performed OK.				
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>[Signature]</u> for Kenosha Aero, Inc., Certificate No. KABR 076A				
10-1-09			3273.1	TKS Metering Pump inop in low, removed pump and installed new unit %B711AAH284-142-14V %NCAV109A1271. Checked lights, tires, battery, and breaks, fluid.

DESCRIPTION METERING Pump 14V

PART NO. 9511AAH284-142-14V QTY 1

SERIAL NOCAV109A1271 CURE DATE

BATCH NO.

DATE 04 FEB 09 INSP.

WORK SHEET NO. IW01719-000

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.

Signed [Signature] for

Kenosha Aero, Inc., Certificate No. KABR 076A

page

ward to next page

RAPCO, Inc.

Air Filter P/N RA-B3-5-1

Changed at: 3300.9 Hrs.

Next Change: 3500.9 Hrs.

Date: 4-29-10

Date:

MANDATORY REPLACEMENT. 500 hours in service, annually, or pump replacement, whichever comes first.
Hartland, WI 53029 USA

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF SIGNATURE & CERTIFICATE NO.
				TOTALS brought forward from previous page
Date <u>5-1-10</u> Indicates <u>3300.9</u> hrs on <u>Tach</u> I certify this powerplant <u>airframe</u> has been inspected according to a 100 <u>hour</u> annual inspection and was determined to be in airworthy condition. Total Time <u>3300.9</u>				A. D. conformity checked through card No. <u>10-8</u> Service letters checked for compliance through <u>Q</u> Inspection check list & pertinent details of repair on file at this agency under work order No. <u>17652</u>
Replaced Vacuum Reg filter, fuel cap o-rings, and dress prop. %AD85-24-3 Fuel Contamination by pressure test and inspection next due 3400.9. %AD08-14-07 Fuel Injection Lines by inspection next due 3400.9/OK/Remove. Replaced static wick on left aileron and chaff tap on left main gear door. Replaced nose wheel tire, left main tire, balanced, packed bearings. EFT inspected and operational test per FAR 91.207 performed OK. Compression test				
REPLACE ELT BATTERY BY: MAY 2013				The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack J. Butler</u> for Kenosha Aero, Inc., Certificate No. KABR-076A
Date <u>5-31-11</u> Indicates <u>3348.2</u> hrs on <u>SPRCH</u> I certify this powerplant <u>airframe</u> has been inspected according to a 100 <u>hour</u> annual inspection and was determined to be in airworthy condition. Total Time <u>3348.2</u>				A. D. conformity checked through card No. <u>11-11</u> Service letters checked for compliance through <u>Q</u> Inspection check list & pertinent details of repair on file at this agency under work order No. <u>14841</u>
%AD85-24-3 FUEL CONTAMINATION by inspection next due 3448.2 %AD08-14-07 FUEL INJECTION LINE by inspection next due 3448.2 Prop GOVERNOR Repaired by Aircraft Propeller Service Replaced EFT Battery next due 5-13 Replaced Bracket air filter, left nav light bulb, and left brake linings. Tighten hose clamp and line by filter, replaced hose clamp, tighten both lower outlets on TKS. Replaced aft brake line grommet. See next page →				
				SUB-TOTALS this page
				TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
				Lubed trim drive shaft. Replaced battery drain hose grommet. EFT inspected and operational test per FAR 91.207 performed OK.
				The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Signed <u>Jack Miller</u> for Kenosha Aero, Inc., Certificate No. KABR 076A
6-13-11				REPLACED ACU DUE TO ALTERNATOR TRIPS. REPLACED RING TERMINAL ON FLD WIRE AT ALTERNATOR. ACU OFF: P/N R15300 S/N R04045 ACU ON: P/N R15300 S/N Y04036 TEST OKAY <u>Mark A. Riegelman</u> AP 2656664IA

Voltage Regulator

N5813F

DATE: JUNE 1, 2012 TACH: 3397 AFTT: 3397

Completed annual inspection this date IAW FAR 43 Appendix D and Mooney inspection checklist. Lubed and inspected all flight controls. Repacked wheel bearings and tested ELT IAW FAR 91.207 (D). **Battery due for replacement by May 2013.** Replaced left main gear inner door support bracket with Mooney p/n 550085-001. Gear swing and emergency extend satisfactory. Complied with AD 2012-5-09 and sent required paperwork to Mooney Aircraft Co. I certify that this aircraft has been inspected IAW annual inspection and has been determined to be in airworthy condition.

Mark A. Riegelman
 Mark A. Riegelman AP2656664IA

N5813F DATE: JUNE 22, 2013 TACH: 3436

Completed annual inspection this date IAW FAR 43 Appendix D and Mooney inspection checklist. Inspected and lubed flight controls - greased landing gear. Replaced ELT battery pack and tested IAW FAR 91.207(d) - **battery pack due for replacement by July 2015. IFR tests due by June 2014.** Performed several gear retractions and two emergency extends - checked gear preloads. Complied with AD's through 2012-5-09. I certify that this aircraft has been inspected IAW annual inspection and has been determined to be in airworthy condition.

Mark A. Riegelman
 Mark A. Riegelman AP2656664IA

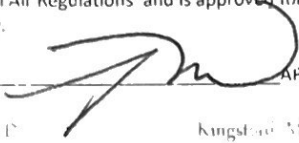
DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

Airframe Log Entry N5813F

Date: 7/8/2013 Hobbs: 2416.6

Customer reported high voltage indicator illuminated in flight. Troubleshot system. Tested voltage regulator & found ok. Decowled engine to access alternator. Ground ran aircraft & found no charging to buss. Inspected wiring at alternator & found a broken field wire terminal on field wire to voltage reg. Replaced wire terminal with new and reattached field wire. Run up ops check ok. Alternator charging at 13.7-14.0 volts. All work performed IAW M20, MM 24-31-01. Recowled aircraft

The aircraft, airframe, engine, appliance or component identified was repaired and inspected in accordance with current Federal Air Regulations and is approved for return to service. Pertinent details of the repair are on file at this agency.

Timothy K. Spreen  AP28815581A

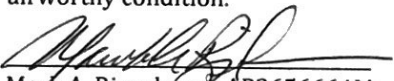
Superior Aviation LLC

Kingstree, SC

(903) 771-0100

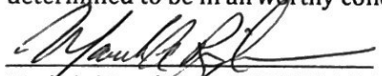
N5813F DATE: JUNE 14, 2014 TACH: 3456.6 AFTT: 3456.6

Completed annual inspection this date IAW FAR 43 Appendix D and Mooney inspection checklist. Inspected and lubed flight controls – greased landing gear. Performed several gear cycles including two emergency extends. Adjusted gear uplock limit switch and tested landing gear airspeed safety switch with calibrated Barfield 1811 test set. Tested ELT IAW FAR 91.207(d) – **battery pack due July 2015**. AD compliance up to date through AD 2012-05-09. Completed 24 month IFR tests as required by FAR 91.411 and 91.413 – **now due by July 1, 2016**. Replaced seals in alternate static shuttle valve due to excessive leakage. I certify that this aircraft has been inspected IAW annual inspection and has been determined to be in airworthy condition.


 Mark A. Riegelman AP26566641A

N5813F DATE: JUNE 06, 2015 TACH: 3480.5 AFTT: 3480.5

Completed annual inspection this date IAW FAR 43 Appendix D and Mooney inspection checklist. Inspected and lubed flight controls – greased landing gear. Performed gear retraction tests including emergency extend. Replaced ELT battery pack and tested IAW FAR 91.207(d) – **battery pack due July 2017**. AD compliance up to date through AD 2012-05-09. 24 month IFR tests **due by July 1, 2016**. I certify that this aircraft has been inspected IAW annual inspection and has been determined to be in airworthy condition.


 Mark A. Riegelman AP26566641A

TOTALS—Carry forward to next page

DATE

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Completed annual inspection this date IAW FAR 43 Appendix D and Mooney inspection checklist. Inspected and lubed flight controls – greased landing gear. Replaced main aircraft battery with Concorde RG-35AXC. Replaced left and right main gear shock discs with J-11968. Replaced right wing tip flash tube and diode at main battery contactor. Completed 24 month IFR tests as required by FAR 91.411 and 91.413 – **next due June 2018**. Performed gear retraction tests including emergency extend – all okay. Tested ELT IAW FAR 91.207(d) – **battery pack due July 2017**. AD compliance up to date through AD 2012-05-09. I certify that this aircraft has been inspected IAW annual inspection and has been determined to be in airworthy condition.

G WORK

Mark A. Riegelman
Mark A. Riegelman AP2656664IA

N5813F DATE: JUNE 1, 2017 TACH: 3524.4 AFTT: 3524.4

Completed annual inspection this date IAW FAR 43 Appendix D and Mooney inspection checklist. Inspected and lubed flight controls – greased landing gear and repacked all wheel bearings. Replaced right main tire with Michelin Air 600X6 tire and Michelin Air Stop tube. 24 month IFR tests as required by FAR 91.411 and 91.413 – **due June 2018**. Performed gear retraction tests including emergency extend – all okay. Replaced battery pack in ELT and tested IAW FAR 91.207(d) – **battery pack now due June 2019**. AD compliance up to date through AD 2012-05-09. I certify that this aircraft has been inspected IAW annual inspection and has been determined to be in airworthy condition.

Mark A. Riegelman
Mark A. Riegelman AP2656664IA

N5813F DATE: AUG. 24, 2017 HOBBS: 3527.5

Replaced avionics master switch with P/N: 930023-213A due to prior intermittent ops. Checks satisfactory

Mark A. Riegelman
Mark A. Riegelman AP2656664IA

MAKE MOONEY
MODEL M20J
S/N 24-1563
REG NO 5813F
WORK ORDER 6228



Kubick Aviation Services, Inc.

Repair Station No 2KAR596C
250 Riverhills Road
Kingsford, MI 49802
Phone 906-779-5500

DATE 11/29/2017
A/C TSN 3538 2
HOBBS 3538 2

Airframe Entries

- 1 Removed the following equipment: Garmin GTX330 P/N 011-00455-00 Transponder

Installed the following equipment: Garmin GTX330ES ADS-B out Transponder P/N 011-00455-60, S/N 84122174 after Modification by Garmin under WO# RMA 99379213 dated 11/20/2017 in accordance with STC SA01714W1 and Installation Manual P/N 190-00734-10 rev 8 GTX330ES interfaced to existing Garmin GNS530W Navigator. Provided Instructions for Continued Airworthiness in accordance with manufacturer's instructions from system maintenance manual P/N 190-00734-11 rev 3 Mar 2016 Chapter 4 and GTX330ES AFMS P/N 190-00734-15 rev 2, March 08, 2016
- 2 Recomputed aircraft Weight & Balance and revised Equipment List this date
Updated Garmin GNS530W main software to v 5.30 and gps software to v 5.0 IAW Garmin Service Bulletin NO 1806 Rev B and Garmin Software Service Bulletin NO 1317 Rev B
- 4 Provided Airplane Flight Manual Supplement 190-00357-03 Rev E and Garmin Pilot Guide Supplement 190-00356 Rev A
Removed King KR 87 ADF system including: ADF receiver P/N 066-1072-00, indicator P/N KI 227, antenna P/N 071-1234-00 and all wiring
- 7 Patched vacated hole by ADF antenna. Fabricated and installed patch out of .032" 2024 T3 aluminum utilizing existing rivet pattern. Acid etched and alodined affected area. Patch installed with PRC sealant, primed and painted to match
C/W FAR 91.413 Part 43 Appendix F. Certified Garmin GTX330ES Transponder P/N 011-00455-60, S/N 84122174

Maintenance Release

The aircraft and/or component(s) on 5813F were repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this Repair Station under Work Order No 6228. Dated 11/29/2017.

DATE 11/29/2017

SIGNED

Chad Kubick
Chad Kubick
Certified Repair Station No 2KAR596C

Work Order 6228

Printed by EBis 3 (datcomedia.com)

DATE

Completed annual inspection this date IAW FAR 43 Appendix D and Mooney inspection checklist. Inspected and lubed flight controls - greased landing gear. Completed 24 month IFR tests as required by FAR 91.411 and 91.413 - **due June 2020**. Performed gear retraction tests including emergency extend - all okay. Tested ELT IAW FAR 91.207(d) - **battery pack due June 2019**. AD compliance up to date through AD 2012-05-09. I certify that this aircraft has been inspected IAW annual inspection and has been determined to be in airworthy condition.

Mark A. Riegelman
Mark A. Riegelman AP2656664IA

ORMED—
PERFORMING WORK

N5813F DATE: June 26, 2019 TACH: 3569.5 AFTT: 3569.5

Completed annual inspection this date IAW FAR 43 Appendix D and Mooney inspection checklist. Inspected and lubed flight controls - greased landing gear. 24 month IFR tests as required by FAR 91.411 and 91.413 - **due June 2020**. Performed gear retraction tests including emergency extend - all okay. Replaced ELT battery pack with BS2173 and tested ELT IAW FAR 91.207(d) - **battery pack due June 2021**. AD compliance up to date through AD 2012-05-09. I certify that this aircraft has been inspected IAW annual inspection and has been determined to be in airworthy condition.

Mark A. Riegelman
Mark A. Riegelman AP2656664IA

MAKE MOONEY
MODEL M20J
S/N 24-1563
REG NO 5813F
WORK ORDER 7124



Kubick Aviation Services, Inc.

Repair Station No. 2KAR596C
250 Riverhills Road
Kingsford, MI 49802
Phone 906-779-5500

DATE 11/8/2019
A/C TSN 3581 5
HOBBS 3581 5

Airframe Entries

Removed Bendix/King KG 102A Directional Gyro P/N 060-0015-00 S/N 23546 Mod 5 and installed Bendix/King KG 102A Directional gyro P/N 060-0015-00 S/N 40842 Mod 8 that was overhauled by MidContinent CRS#-OL2R061L under work order 000367406 dated July 26, 2019. Installation done IAW MANUAL NUMBER 006-00111-0011 REVISION 11 April 2007 Operational checks good
Removed and reinstalled #1 Nav Indicator P/N 066-3046-00 S/N 24606 after repair by IFL Inc. CRS#-DJSR211D under work order IA25249 dated November 05, 2019. Operational checks good
Replaced left elevator outboard static wick base with new P/N-B1 and installed new static wick P/N-DD1W
Replaced oil pressure indicator with new P/N-640281-171 Operational checks good

Maintenance Release

The aircraft and/or component(s) on 5813F were repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this Repair Station under Work Order No. 7124 Dated 11/8/2019

DATE 11/8/2019

SIGNED

Tim Lawler
Tim Lawler
Certified Repair Station No. 2KAR596C

Work Order 7124

Printed by EBis 3 (datcomedia.com)

N5813F DATE: JUNE 3, 2020 HOBBS: 3584.3 AFTT: 3584.3

Completed annual inspection this date IAW FAR 43 Appendix D and Mooney inspection checklist. Inspected and lubed flight controls - greased landing gear. 24 month IFR tests as required by FAR 91.411 and 91.413 completed this date - **due June 2022**. Performed gear retraction tests including emergency extend - all okay. Tested ELT IAW FAR 91.207(d) - **battery pack due June 2021**. AD compliance up to date through AD 2012-05-09. I certify that this aircraft has been inspected IAW annual inspection and has been determined to be in airworthy condition.

Mark A. Riegelman
Mark A. Riegelman AP2656664IA

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DATE

Completed annual inspection this date IAW FAR 43 Appendix D and Mooney inspection checklist. Inspected and lubed flight controls - greased landing gear. 24 month IFR tests as required by FAR 91.411 and 91.413 **due June 2022**. Performed gear retraction tests including emergency extend - all okay. Replaced ELT battery pack and tested IAW FAR 91.207(d) - **battery pack now due Sept. 2023**. AD compliance up to date through AD 2012-05-09. I certify that this aircraft has been inspected IAW annual inspection and has been determined to be in airworthy condition.

Mark A. Riegelman
Mark A. Riegelman AP26506641A

RMING WORK

Lakeland Aviation of Minocqua, Inc.

Date 9-9-21 N5813F AFTT 3607.2

Remove existing hobbs meter reading 2540.3, install new 0 time hobbs meter. Ops check Ok. Perform gear retraction test, OK-----

Michael Tamburrino

Michael Tamburrino AP31843311A

Reliant Aircraft Services LLC 14209 SW Tewkesbury Dr Portland, OR 97224 503-799-9834	Reliant Aircraft Services LLC 	Logbook Insert Airframe
Model: Mooney M20 J	Airframe	Date: 06/24/22
Reg #: N5813F	SN# 24-1563	ACTT 3682.3 Hobbs
Tach 3682.3	Engine Hobbs: 3682.3	Flight time Hobbs: 64.0

Completed an annual inspection with reference to Mooney aircraft annual inspection guide form # 0100 (B) dated Aug. 2018 and FAR 43 App. D. Replaced and lubricated fuel tank cap O-rings and locking tab shaft O-ring. ELT checked IAW FAR 91.207. ELT battery replacement due September 2023. Repacked all wheel bearings and lubricated brake guide pins. Replaced nose wheel bearings and cups. Replaced nose tire with Flight Custom III 500-5 and checked balance. Lubricated and inspected flight controls, inspected gear preload per M20J M/M, lubricated all pivot points. Replaced O-rings in left brake caliper. Researched AD's through current ATP publication June 21, 2022. No new applicable AD's have been issued or complied with. Ground run and leak checks performed with no discrepancies noted. I certify this aircraft has been inspected IAW an annual inspection and was determined to be in an airworthy condition as of this date.

DeLynn R Elrod

A&P3508347 IA

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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Air Sense Avionics, Inc.
7463 SW Saint John Place
Portland, OR 97223
503-850-8262
info@asavionics.com

Work Order: 10720062
Aircraft MFG: MOONEY
Aircraft Model: M70J
Aircraft S/N: 24-1563
N-Number: N5713F
Tach: 3738.2

I certify that on this date, 5-11-2023, I have tested

- ☒ the altimeter(s), altitude encoder and static system IAW 14 CFR 91.411 and § 43 App. E;
☒ the ATC transponder IAW 14 CFR 91.413 and § 43 App. F;
☒ the reference and reported altitude data correspondence IAW 14 CFR 91.217;
and the tests were found in compliance with regulations.

The altimeter(s) have been tested to 20 000 feet: S/N(s) 1/1

Encoder Model: GT 215 S/N: 5M2203016, 5M2113537

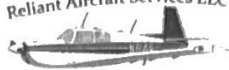
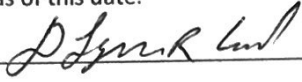
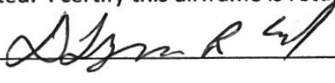
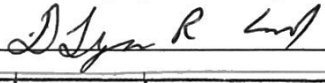
Transponder Make: GARMIN Model: GTX 345 S/N: 1/1

Inspector signature: Brian Yablon Brian Yablon for Air Sense Avionics, Inc.

FAA Repair Station certificate number: 53NR597D

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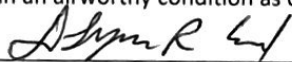
DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	
	Reliant Aircraft Services LLC 14209 SW Tewkesbury Dr Portland, OR 97224 503-799-9834			Reliant Aircraft Services LLC 	Logbook Insert Airframe
	Model: Mooney M20 J			Airframe Reg #: N5813F Tach 3741.4	Date: 06/29/23 ACTT 3741.4 Hobbs Flight time Hobbs: 105.6
Completed an annual inspection with reference to Mooney aircraft annual inspection guide form # 0100 (B) dated Aug. 2018 and FAR 43 App. D. Lubricated fuel tank cap O-rings and locking tab shaft O-ring. ELT checked IAW FAR 91.207. ELT battery replacement due September 2025. Repacked all wheel bearings and lubricated brake guide pins. Replaced Left main tire with new Flight Custom III 600-6. Lubricated and inspected flight controls, inspected gear preload per M20J M/M, lubricated all pivot points. Researched AD's through current ATP publication June 26, 2023. No new applicable AD's have been issued or complied with. Checked TKS main pump output per manufacturing instructions. No discrepancies noted. Installed new muffler Part # A630045-503 (See form 8130) from Aerospace Welding Minneapolis form tracking # 23062001D-B. Removed Whelen strobe power supplies and lamps. Removed OEM nav lights and recognition lights. Installed new WAT LED replacement units as follows, right wing part # 01-0790701-01, left wing part # 01-0790701-02, tail part # 01-0771774V01. Installed 2 ea. of Whelen Mooney Led Recognition light part # 01-0770303-10. Ground run and leak checks performed with no discrepancies noted. I certify this aircraft has been inspected IAW an annual inspection and was determined to be in an airworthy condition as of this date.					
DeLynn R Elrod					A&P3508347 IA
	Reliant Aircraft Services LLC 14209 SW Tewkesbury Dr Portland, OR 97224 503-799-9834			Reliant Aircraft Services LLC 	Logbook Insert Airframe
	Model: Mooney M20 J			Airframe Reg #: N5813F Tach 3791.4	Date: 08/17/23 ACTT 3741.4 Hobbs Flight time Hobbs:
At the request of the owner installed serviceable flap motor part # 750105-001. See part ID tag. Tested operation with no defects noted. I certify this airframe is returned to service with respect to with work performed this date.					
DeLynn R Elrod					A&P3508347 IA
	Reliant Aircraft Services LLC 14209 SW Tewkesbury Dr Portland, OR 97224 503-799-9834			Reliant Aircraft Services LLC 	Logbook Insert Airframe
	Model: Mooney M20 J			Airframe Reg #: N5813F Tach	Date: 10/11/2023 ACTT 3807.9Hobbs Flight time Hobbs:
Installed new WAT LED landing light. Tested operation. Light part # 01-0790906-00 S Werial # 01352					
DeLynn R Elrod					A&P3508347 IA
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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

Reliant Aircraft Services LLC 14209 SW Tewkesbury Dr Portland, OR 97224 503-799-9834		Reliant Aircraft Services LLC 	Logbook Insert Airframe
Model: Mooney M20 J	Airframe		Date: 05/02/2024
Reg #: N5813F	SN# 24-1563	ACTT 3834.1 Hobbs	
Tach 3834.1	Engine Hobbs: 3834.1	Flight time Hobbs: 105.6	

At the request of the owner, completed an annual inspection with reference to Mooney aircraft annual inspection guide form # 0100 (B) dated Aug. 2018 and FAR 43 App. D. Lubricated fuel tank cap O-rings and locking tab shaft O-ring. ELT checked IAW FAR 91.207. ELT battery replacement due September 2025. Repacked all wheel bearings and lubricated brake guide pins. Replaced all landing gear shock discs. Lubricated and inspected flight controls, inspected gear preload per M20J M/M, lubricated all pivot points. Researched AD's through current ATP publication May 2, 2024. No new applicable AD's have been issued or complied with. Ground run and leak checks performed with no discrepancies noted. I certify this aircraft has been inspected IAW an annual inspection and was determined to be in an airworthy condition as of this date.

DeLynn R Elrod



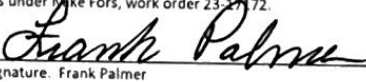
A&P3508347 IA

Pacific Coast Avionics						CRS OPXR455L
Registration: N5813F	Make: MOONEY	Model: M20J	S/N: 24-1563	Aircraft Time: Hobbs: N/A	Tach: 3841.1	

Removed Garmin GMA 347 Audio Panel s/n 47000868, Garmin GTX 330 Transponder s/n 84122174, Garmin GNS 430 GPS/NAV/COM s/n 97134466, Garmin GNS 530W GPS/NAV/COM s/n 78416170, and all associated installation kits, trays and wiring to facilitate other maintenance. Installed Garmin GTN 750Xi GPS/NAV/COM s/n 5FR054129 using STC SA020195E-D. Installed, configured and tested IAW GTN 750Xi installation manual 190-01007-C0 Rev 11, dated May 2024. Post installation ground checks good. Installed Garmin GTX 345 Transponder s/n 3EG043721 using STC SA01714W. Installed, configured and tested IAW GTX 345 installation manual 190-00734-10 Rev 17, dated May 2024. Post installation ground checks good. Installed Garmin GNC 215 NAV/COM s/n 70D000584. Installed, configured and tested IAW GNC 215 installation manual 190-02766-01 Rev 5, dated May 2024. Post installation ground checks good. Installed Garmin GMA 345 Audio Panel s/n 320101552. Installed, configured and tested IAW GMA 345 installation manual 190-01878-02 Rev 6, dated July 2023. Post installation ground checks good. NDN

The installation of the Garmin GTN 750Xi GPS/NAV/COM, and Garmin GTX 345 Transponder, have been analyzed in accordance with 14 CFR 43 Appendix A and found to meet the requirements of a Major Alteration as defined by 14 CFR 1.1. An FAA Form 337, dated June 28, 2024 has been completed and filed with the Federal Aviation Administration. All other repairs or alterations noted in this maintenance entry have been analyzed in the same manner and found to be Minor.

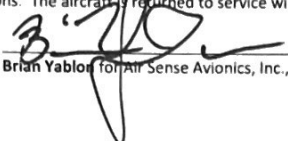
This aircraft has been inspected in accordance with current federal aviation regulations and found to be airworthy with respect to the work performed. Details will be on file at Pacific Coast Avionics under Mike Fors, work order 23-2172.

Signature:  Date: 6/28/2024

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK												
 53770 Airport Road Scappoose, OR 97056 +1-503-850-8262 FAA Repair Station 53NR597D				Date: 08-10-2024 Tail Number: N5813F Model: M20J Serial: 24-1563 Tach: 3854.6 Work Order: 20220062												
Repairs / Maintenance Removed existing King KI-256 vacuum ADI PN 060-0017-00 SN 13320 and KI-525A DG PN 066-3046-00 SN 24606, EMA suction gauge PN 3-310-55 SN A1344, Tempest vacuum pump PN AA3215CC SN N43601, Parker vacuum regulator PN 482001-0101 no SN, Rapco air filter PN RA-D9-18-1, and associated plumbing. Removed King KA-51B slaving switch PN 8071-1242-05 SN 4238, and KMT-112 magnetometer PN 071-1052-00 SN 25923. Removed KI-206 ILS indicator PN 066-3034-04 SN 15911. Stripped old wiring from aircraft. Opened fuselage inspection panels. Removed Aero-Safe electric standby vacuum system SN 000664, and KG-102A gyro PN 060-0015-00 SN 40842, Installed Garmin GMU 11 magnetometer PN 010-01788-01 SN 56J112355 in L wing. Installed new Garmin GTP 59 OAT probe PN 011-00978-00 SN 47978148 (for GI 275) in R wing. Removed OEM OAT probe no PN or SN. Installed two GI 275 indicators PN 010-01912-20 SN 5M2203016 as ADI and SN 5M2113557 as HSI. Interfaced to existing navigators, audio panel, transponder and KFC autopilot. Plumbed to pitot/static system. Installed G5B 15 Dual Type-A USB interface/charger PN 010-02201-10 SN 63M065944. Installed new circuit breakers for GI 275 ADI and HSI on circuit breaker module essential and avionics busses. Configured and tested all new equipment. Updated GI 275 SW (both units) to rev 3.20. Calibrated magnetometer. GI 275 system installation performed with reference to GI 275 Part 23 AML Installation Manual 190-02246-10 Rev 19 and STC SA02658SE. See FAA Form 337 this date. Performed pitot-static inspection IAW 14 CFR 91.411. All performance criteria are within the limits prescribed by 14 CFR 43 Appendix E. Removed altimeter from aircraft and performed case leak test at 18,000 MSL; measured leak rate = 11 FPM. Performed transponder encoder correspondence test IAW 91.217a(2). See PSTI Form report this work order for results. Provided owner with GI 275 Pilots Guide 190-02246-01 Rev P. Added Garmin GI 275 AFMS 190-02246-12 Rev 12 to the POH. Added the GI 275 Maintenance Manual 190-02246-11 Rev 9 to the aircraft permanent records. Provided owner with all STCs and permission letters. Updated aircraft weight & balance and equipment list. Registered equipment warranties with the manufacturers. Returned aircraft to service. I certify that the work described above has been performed in accordance with 14 CFR parts 43 and 145 and relevant manufacturers' instructions. The aircraft is returned to service with respect to the work performed. Inspector signature:  Date: 10-Aug-24 Brian Yablou for Air Sense Avionics, Inc., Certificate 53NR597D																
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:40%;"> Reliant Aircraft Services LLC 14209 SW Tewkesbury Dr Portland, OR 97224 503-799-9834 </td> <td style="width:20%; text-align: center;">  </td> <td style="width:40%;"> Logbook Insert Airframe </td> </tr> <tr> <td> Model: Mooney M20 J </td> <td> Airframe </td> <td> Date: 06/17/2025 </td> </tr> <tr> <td> Reg #: N5813F </td> <td> SN# 24-1563 </td> <td> ACTT 3921.0 Hobbs </td> </tr> <tr> <td> Tach 3921.0 </td> <td> Engine Hobbs: 123.0 </td> <td> Flight time Hobbs: 119.0 </td> </tr> </table> At the request of the owner, completed an annual inspection with reference to Mooney aircraft annual inspection guide form # 0100 (B) dated Aug. 2018 and FAR 43 App. D. Lubricated fuel tank cap O-rings and locking tab shaft O-ring. ELT checked IAW FAR 91.207. ELT battery replacement due Aug 2027. Repacked all wheel bearings and lubricated brake guide pins. Lubricated and inspected flight controls, inspected gear preload per M20J M/M, lubricated all pivot points. Researched AD's through current ATP publication June 17, 2025. No new applicable AD's have been issued or complied with. Ground run and leak checks performed with no discrepancies noted. I certify this aircraft has been inspected IAW an annual inspection and was determined to be in an airworthy condition as of this date. DeLynn R Elrod  A&P3508347 IA					Reliant Aircraft Services LLC 14209 SW Tewkesbury Dr Portland, OR 97224 503-799-9834		Logbook Insert Airframe	Model: Mooney M20 J	Airframe	Date: 06/17/2025	Reg #: N5813F	SN# 24-1563	ACTT 3921.0 Hobbs	Tach 3921.0	Engine Hobbs: 123.0	Flight time Hobbs: 119.0
Reliant Aircraft Services LLC 14209 SW Tewkesbury Dr Portland, OR 97224 503-799-9834		Logbook Insert Airframe														
Model: Mooney M20 J	Airframe	Date: 06/17/2025														
Reg #: N5813F	SN# 24-1563	ACTT 3921.0 Hobbs														
Tach 3921.0	Engine Hobbs: 123.0	Flight time Hobbs: 119.0														
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				TOTALS brought forward from previous page
<i>This entry is out of date range</i>  53770 Airport Road Scappoose, OR 97056 +1-503-850-8262 FAA Repair Station 53NR597D Date: 02-28-2025 Tail Number: N5813F Model: M20J Serial: 24-1563 Tach: 3905 6 Work Order: 20240186				
Repairs / Maintenance Removed existing OEM fuel senders PN 610242-001 at both inboard positions, 610243-001 at right outboard position, and 610243-003 at left outboard position. Installed new CIES digital fuel senders; PN CC284022-(0706)-(101) SN MY2073 in the inboard, and PN CC284022-(0707)-(101) SN MY2075 in the outboard positions of the left tank, and PN CC284022-(0706)-(102) SN MY2074 in the inboard, and PN CC284022-(0707)-(102) SN MY2076 in the outboard positions of the right tank. Ran new fuel quantity cables from senders and terminated them at GEA 24B. All work performed with reference to CIES installation instructions CC-TR-2840-031 Rev F and STC SA02511SE. Removed existing JPI OAT PN 400510 SN 00418. Removed existing OEM engine instrument gauge cluster PN 640281-519 SN 168, oil pressure transducer amplifier PN 950D0311-002 SN 029, fuel pressure amplifier PN 950 D 0311-001 SN 371, manifold pressure gauge PN 6414 SN 106, SDI Hoskins FT-101 fuel flow indicator PN 702165-1 SN 1560, JPI Temperature Indicator PN 302661 Rev. 1.0 SN 1154, B&D Inst. Tachometer PN 0513-016 Rev. E SN 57255, and ammeter PN 5-90012. Removed existing EGT probes PN M-111 and spark plug gasket-style CHT probes PN MM-113 from each of 4 cylinders. Removed wiring for engine hours meter and placarded INOP. Installed new crush washers and torqued spark plugs to 30 ft-lbs. Removed existing Tanis engine heater probes from cylinder bosses, and heater wiring harness. Removed unused circuit breakers and repopulated with new 7277-style breakers for newly installed equipment. Removed existing 60 amp shunt PN MLA-60-100. Installed new 100 amp shunt PN 1CU4 and wired to GEA 24B. Removed unused wiring from main and avionics power connectors. Repurposed connector positions for new equipment power circuits. Installed new Garmin GEA 24B Engine Adapter PN 011-05991-01 SN 7NM004665 on inboard side of circuit breaker module. Installed new Alcor EGT probes PN 494-70001-00 and CHT probes PN 494-70008-00 on each of 4 cylinders. Installed new UMA oil temperature transducer PN 494-70009-00 SN B4402. Installed new Garmin fuel pressure transducer PN 011-04202-20 SN 74D0203303, oil pressure transducer PN 011-04202-30 SN 74D0306728, and manifold pressure transducer PN 011-04202-00 SN 74D004838 and connected to existing hoses. Fabricated and installed ignition pickup RPM sensor. Built wiring harness and dressed wiring in Nomex sleeving. Fabricated wiring harness and installed new Garmin GI 275 instrument PN 010-02325-00 SN 5M2007361 as an engine instrumentation system (EIS) display. Interfaced to existing GI 275 indicators via HSDB and to GEA 24B via serial. Updated software on all Garmin GI 275 indicators to software rev 3.20 per Garmin STC Service Bulletin 240448. Configured EIS. Verified all sensors function correctly. Incrementally filled fuel tanks and calibrated Garmin GI 275 EIS fuel quantities. Ran-up engine. No leaks found and ops check OK. All work performed with reference to Garmin GI 275 Part 23 AML Installation Manual 190-02246-10 Rev 19, and STC SA02658SE. Reference FAA Form 337 this date. Provided owner with GI 275 Pilots Guide 190-02246-01 Rev Q. Owner's existing rev of Garmin GI 275 AFMS 190-02246-12 is current. Amended existing GI 275 AML STC Maintenance Manual 190-02246-11 Rev 12 with new EIS and GEA 24 data. Provided owner with all STCs and permission letters. Updated aircraft weight & balance and equipment list. I certify that the work described above has been performed in accordance with 14 CFR parts 43 and 145 and relevant manufacturers' instructions. The aircraft is returned to service with respect to the work performed. Inspector signature: <u>Tatum Stewart</u> Date: 28-Feb-25 Tatum Stewart for Air Sense Avionics, Inc., Certificate 53NR597D				
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				TOTALS—Carry forward to next page

