

**Mangon Aircraft, Inc.**

501 Sky Ranch Drive
 Petaluma, CA 94954-3908
 Phone: (707) 765-1848
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 Email: info@mangonaircraft.com
 Date: 6/27/2022, 2:33 PM

CUSTOMER INFORMATION

Engdahl Thomas L.
 44 Stonetree Lane
 Novato, CA 94945
 (408) 313-4000
 marshaguinn@earthlink.net
 Reg. No: 5169M
 1978 Beechcraft-Raytheon C24R
 Current A/C TT: 5717.4, Tach: 5717.4
 A/C Serial: MC-584
 Gross Weight: 2750
 Terms: Due on Receipt

Customer Invoice
Work Order: 17145

Total Balance Due \$2,750.83 (See Below For Cost Detail)

Item: 1 - Customer Requested**Discrepancy**

Aircraft is due 100 hour inspection to comply with FAR 91.409, (a), (1), for Annual Certification. Inspection in accordance with Hawker Beechcraft Service Manual Sierra 200 Series, Pn.169-590015, Revision G5 dated 11/17/1997.

Hours**Subtotal**

12.50

1,875.00

Corrective Action

Aircraft was inspected as required by FAR 91.409 (a) (1). 100 Hour inspection and service completed on aircraft using a checklist with those items extracted from the Hawker Beechcraft Service Manual Sierra 200 Series, Pn.169-590015, Revision G5 that meets the requirements, scope and detail of FAR 43.13, Appendix D.

Inspection Information:

Final Inspection: MICHAEL TILLMAN on 06/27/22

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
1	Ea	600-0101-5-8	Seal Dyna 5/8 ID (P/O: 13684) (Lot: LT21-00382)		14.37	14.37
4	Oz	Aeroshell 22	Grease Aeroshell 22, MIL-PRF-81322G (P/O: 13468)		3.20	12.80
1	Ea	MS29513-132	Seal O Ring (P/O: 13450)		1.04	1.04

Labor: \$1,875.00**Parts:** \$28.21**Shipping:** \$0.00**Item Subtotal:** \$1,903.21**Item: 2 - Customer Requested****Discrepancy**

Engine is due a 100 hour inspection to comply with FAR 91.409, (a), (1), for Annual Certification. Inspection in accordance with Hawker Beechcraft Service Manual Sierra 200 Series, Pn.169-590015, Revision G5 dated 11/17/1997.

Hours**Subtotal**

8.00

1,200.00

Corrective Action

100 Hour inspection and service completed on engine using Hawker Beechcraft Service Manual Sierra 200 Series, Pn.169-590015, Revision G5 with those items extracted that meets the requirements, scope and detail of FAR 43.13, Appendix D. Oil drained, oil screens removed and inspected no metal particles. Oil serviced to 7 Qts. with Aeroshell 15W-50. Compression test: Cylinder 1- 79/80, 2-76/80, 3-72/80, 4-72/80. Magnetos, timing and sync'd at 20 degrees BTC, cylinder #1. Fuel Injector Nozzles removed, cleaned and installed back in original locations. Fuel system pressure checked, no leaks. Exhaust system pressure checked no leaks.

Inspection Information:

Final Inspection: MICHAEL TILLMAN on 06/27/22

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
8	Ea	07-00877	Gasket Spark Plug 18MM MS17840-1 (See notes) (P/O: 14340)		1.55	12.40
7	Ea	15W50QT	Oil Aeroshell 15W-50 Multi-Grade Qt. (Notes) (P/O: 14372)		14.47	101.27
1	EA	61173	Gasket Oil Screen Adapter Lyc (P/O: 13232)		2.22	2.22
1	Gal	66	Mineral Spirits Cleaning ASOLV55 (Gal) (P/O: 14325)		35.96	35.96
1	Ea	951789	Seal Florcarbon Fuel RSA 5AD1 (P/O: 13731)		3.75	3.75

8 Ea	MS35333-40	Washer Lock Internal Star 1/4 (AN936A-416) (P/O: 13960)	0.05	0.40
1 Ea	MS35769-11	Gasket Annular Copper 3/32 T 5/8 ID X 7/8 (P/O: 13645)	1.98	1.98
1 Ea	MS35769-21	Gasket Annular Copper (P/O: 14200)	2.68	2.68
Labor: \$1,200.00 Parts: \$160.66 Shipping: \$0.00 Item Subtotal: \$1,360.66				

Item: 3 - Customer Requested

Discrepancy	Hours	Subtotal
Propeller is due a 100 hour inspection to comply with FAR 91.409, (a), (1), for Annual Certification. Inspection in accordance with Hawker Beechcraft Service Manual Sierra 200 Series, Pn.169-590015, Revision G5 dated 11/17/1997.	0.75	112.50

Corrective Action

Propeller inspected and serviced in accordance with the Hawker Beechcraft Service Manual Sierra 200 Series, Pn.169-590015, Revision G5 dated 11/17/1997 for a 100-Hour Inspection Interval with those items extracted that meets the requirements, scope and detail of FAR 43.13, Appendix D. Propeller Hub inspected. Propeller Blades cleaned, inspected, tracked, profiled and painted.

Inspection Information:

·Final Inspection: MICHAEL TILLMAN on 06/27/22

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
3	Oz	A810	Paint Black Flat Lacquer (Unit Oz) (P/O: 14274)		1.74	5.22
1	Ea	NAS1515H3L	Washer Nylon #10 3/16 ID x 7/16OD (P/O: 12415)		0.12	0.12
Labor: \$112.50 Parts: \$5.34 Shipping: \$0.00 Item Subtotal: \$117.84						

Item: 4 - Airworthy Airframe

Discrepancy	Hours	Subtotal
Battery requires Manufacture capacitance check for annual certification. Remove battery, clean, inspect, charge for four hours, perform capacity test, recharge to specifications and install.	1.61	241.50

Corrective Action

Battery complied with Manufacture capacitance check for annual certification. Remove battery, clean, inspect, charge for two hours, perform capacitance test. Battery failed 1st at 72.3%. Performed battery conditioning procedures per Teledyne Gill MM instructions to charge battery for 5 hours at a constant current rate of 3.3AMPS. Battery passed 2nd attempt at 100%. Inspection due again 7/2023.

Inspection Information:

·Final Inspection: MICHAEL TILLMAN on 06/21/22

Labor: \$241.50	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$241.50
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Item: 5 - Airworthy Airframe

Discrepancy	Hours	Subtotal
ELT comply with FAR 91.207 (d), inspection, battery expiration, and impact signal testing. See AC43-13-1B, Sec. 12-22, a. thru f.	0.75	112.50

****battery expired****

Corrective Action

ELT comply with FAR 91.207 (d), inspection, battery expiration, and impact signal testing. See AC43-13-1B, Sec. 12-22, a. thru f. Next test date 7/2023. Battery replacement due 10/2024.

Inspection Information:

·Final Inspection: MICHAEL TILLMAN on 06/21/22

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
1	Ea	452-3063	Battery ELT Artex (P/O: 14374) (Lot: 395235-042) (Ship: 12.34)	395235-042	291.79	291.79
Labor: \$112.50 Parts: \$291.79 Shipping: \$12.34 Item Subtotal: \$416.63						

Item: 6 - Airworthy Airframe

Discrepancy	Hours	Subtotal
Engine air filter due for replacement per continued airworthiness requirements instructions as outlined in Brackett Air filter Document I-194.	0.40	60.00

Corrective Action

Engine air filter replaced I/A/W continued airworthiness requirements instructions per Brackett Air filter Document I-194.

Inspection Information:

·Final Inspection: MICHAEL TILLMAN on 06/14/22

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
1	EA	BA7305	Filter Engine Air Brackett (P/O: 13389)		14.56	14.56

Labor: \$60.00	Parts: \$14.56	Shipping: \$0.00	Item Subtotal: \$74.56
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Item: 7 - Airworthy Airframe

Discrepancy	Hours	Subtotal
Vacuum relief filter due for replacement I/A/W Airborne Service Letter 59A.	0.51	76.50

Corrective Action

Vacuum relief filters replaced I/A/W Airborne Service Letter 59A.

Inspection Information:

·Final Inspection: MICHAEL TILLMAN on 06/27/22

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
1	Ea	ARB3-5-1	Filter Vacuum (P/O: 14374)		5.62	5.62

Labor: \$76.50	Parts: \$5.62	Shipping: \$0.00	Item Subtotal: \$82.12
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Item: 8 - Airworthy Airframe

Discrepancy	Hours	Subtotal
FAR 91.411 (IFR) Altimeter, Static System & Altitude Reporting and FAR 91.413 Transponder Checks are due.	N/C - 0.00	0.00

Corrective Action

FAR IFR Certification: An encoder, transponder, altimeter integration test was performed as required by FAR 91.411 (a)(3) and 91.413 (b) and found to comply with FAR Part 43 APP E and APP F. See attached certification results (CRS QJAR856X) Next FAR IFR certification is due 6/2024.

Outside Repair:

Precision Static Testing (CRS QJAR856X), Labor: 350.00, Parts: 0.00
(IFR Certifications)

Labor: \$350.00	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$350.00
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Item: 9 - Airworthy Airframe

Discrepancy	Hours	Subtotal
Battery dead.	1.44	216.00

swap battery for ground run up**

battery won't take a charge

need to condition charge battery per Gill specification

Corrective Action

****see item #4 for corrected action****

Inspection Information:

·Final Inspection: MICHAEL TILLMAN on 06/17/22

Labor: \$216.00	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$216.00
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Item: 10 - Airworthy Airframe

Discrepancy	Hours	Subtotal
Nose tire flat.	0.50	75.00

TDY to customer hanger with air tank*

Corrective Action

Nose tire serviced to specifications (35psi).

Inspection Information:

·Final Inspection: MICHAEL TILLMAN on 06/10/22

Labor: \$75.00	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$75.00
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Item: 11 - Customer Rejected

Discrepancy	Hours	Subtotal
Lt. fuel tank indication pegged at full mark.	Rejected	0.00

****time is for troubleshooting only****

additional parts and labor may be required

Corrective Action

...Customer declined any corrective action at this time.

Labor: \$0.00	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$0.00
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Item: 12 - Customer Rejected

Discrepancy	Hours	Subtotal
Check Lt. ADS-B navigation & strobe lights for power. (inop)	Rejected	0.00

****time is for troubleshooting only****

additional parts and labor may be required

Corrective Action

...Customer declined any corrective action at this time.

Labor: \$0.00	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$0.00
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Item: 13 - Airworthy Engine

Discrepancy	Hours	Subtotal
A.D. 2015-19-07, effective date 11/3/2015, Lycoming Fuel Injection Line inspection is due per Lycoming Service Bulletin 342G Supplements 1 & 2. (every 100 hours at each engine overhaul, and after any maintenance has been done on the engine where any clamp on a fuel injector line has been disconnected, moved, or loosened).	0.38	57.00

Corrective Action

A.D. 2015-19-07, effective date 11/3/2015, Lycoming Fuel Injection Line inspection complied with per Lycoming Service Bulletin 342G, Supplements 1 & 2. No defects noted.

Inspection Information:

·Final Inspection: MICHAEL TILLMAN on 06/27/22

Labor: \$57.00	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$57.00
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Item: 14 - Airworthy Airframe

Discrepancy	Hours	Subtotal
A.D. 2021-23-12, effective date 12/9/2021, To all transport and commuter category airplanes equipped with a radio altimeters.	N/C - 0.20	0.00

Corrective Action

A.D. 2021-23-12, effective date 12/9/2021, To all transport and commuter category airplanes equipped with a radio altimeters. N/A to aircraft designation. No further action required.

Inspection Information:

·Final Inspection: MICHAEL TILLMAN on 06/14/22

Labor: \$0.00	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$0.00
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Item: 15 - Airworthy Airframe

Discrepancy	Hours	Subtotal
A.D. 2022-03-15, effective date 03/21/2022, To Ensure That the Amount of Fuel Indicated is the Amount of Fuel Available. The Unsafe Condition, if Not Addressed, Could Result in Fuel Starvation and Engine Shutdown Which Could Result in the Inability to Arrive at the Destination Airport or a suitable alternative airport.	N/C - 0.20	0.00

Corrective Action

A.D. 2022-03-15, effective date 03/21/2022, To Ensure That the Amount of Fuel Indicated is the Amount of Fuel Available. The Unsafe Condition, if Not Addressed, Could Result in Fuel Starvation and Engine Shutdown Which Could Result in the Inability to Arrive at the Destination Airport or a suitable alternative airport. Not applicable this part is not installed. No further action required.

Inspection Information:

·Final Inspection: MICHAEL TILLMAN on 06/14/22

Labor: \$0.00	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$0.00
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Item: 16 - Airworthy Airframe

Discrepancy	Hours	Subtotal
Lt. brake caliper is leaking.	0.94	141.00

Corrective Action

Lt. brake caliper removed and re-sealed. Lt. brake bled. Reservoir serviced. Ops check good.

Inspection Information:

·Final Inspection: MICHAEL TILLMAN on 06/27/22

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
10	Oz	756A1GL	Oil Hydraulic Fluid (MIL-H-5606A, 1045377) Unit (Oz) **See Notes** (P/O: 13208)		0.74	7.40
1	Ea	MS28775-224	Seal O Ring Hyd .139 T X 1.726 ID (AN6230-B2) (P/O: 12764)		0.90	0.90

Labor: \$141.00	Parts: \$8.30	Shipping: \$0.00	Item Subtotal: \$149.30
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Item: 17 - Recommended Airframe

Discrepancy	Hours	Subtotal
Rt. main tire has flat spots and the tread is worn.	1.46	219.00

Corrective Action

Main tire Rt. and wheel assembly removed. Inner tube, bearings, races, and wheel halves, cleaned & inspected. Lubricated bearings with Mobil aviation grease SHC 100. Replaced tire and installed on wheel halves, torqued wheel nuts to 150 in. lbs. Installed wheel assembly on axle, torqued and safety. Tire serviced to 32 PSI.

Inspection Information:

·Final Inspection: MICHAEL TILLMAN on 06/27/22

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
1	Ea	606C66-8	Tire Goodyear Flt. Custom III 6.00-6 6 Ply (P/O: 14364)	13400097	429.57	429.57
1	EA	MS24665-362	Pin Cotter 1/8 X 2 1/2" (Wheel) (P/O: 14093)		0.28	0.28
2	Oz	SHC 100	Grease Synthetic Wheel Bearing (P/O: 14198)		2.62	5.24

Labor: \$219.00	Parts: \$435.09	Shipping: \$0.00	Item Subtotal: \$654.09
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Item: 18 - Airworthy Airframe

Discrepancy	Hours	Subtotal
Brake discs below min.	1.34	201.00

Corrective Action

Brake linings and discs Rt. & Lt. main wheels removed and replaced. Linings and discs conditioned IAW Cleveland conditioning procedures.

Inspection Information:

Final Inspection: MICHAEL TILLMAN on 06/27/22

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
2	Ea	164-06900	Disc Brake (P/O: 14393) (Ship: 26.08)		335.40	670.80
1	EA	MS24665-362	Pin Cotter 1/8 X 2 1/2" (Wheel) (P/O: 14093)		0.28	0.28
1	Ea	RA066-11200-4K	Brake Lining, RA066-11200, 4 pack (P/O: 14390)		59.18	59.18
2	Oz	SHC 100	Grease Synthetic Wheel Bearing (P/O: 14198)		2.62	5.24

Labor: \$201.00	Parts: \$735.50	Shipping: \$26.08	Item Subtotal: \$962.58
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Item: 19 - Airworthy Airframe

Discrepancy	Hours	Subtotal
Engine baffling support bracket behind flywheel broken.	1.71	256.50

repair required*

Corrective Action

Engine baffling support bracket aft of the fly wheel repaired. Ops check good.

Inspection Information:

Final Inspection: MICHAEL TILLMAN on 06/27/22

Function Check: DAN SHERIDAN on 06/21/22

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
0.5	Sq Ft	2024T3-032	Sheet Aluminum .032 Sq. Ft. (AS 03-28010) (P/O: 6921)		7.00	3.50
1	Oz	A702	Paint Primer Phosphate Green Oz. (P/O: 13739)		1.40	1.40
1	Oz	A810	Paint Black Flat Lacquer (Unit Oz) (P/O: 14274)		1.74	1.74
1	Ea	Alcohol Isopropyl Oz.	Alcohol Isopropyl Oz.		0.52	0.52
2	Ea	MS35333-39	Washer Lock Internal Star # 10 (AN936A-10) (P/O: 14205)		0.04	0.08
1	Ea	MS35333-40	Washer Lock Internal Star 1/4 (AN936A-416) (P/O: 13960)		0.05	0.05
1	Ea	NAS1149F0332P	Washer Steel Thin #10 .203 ID (P/O: 11906)		0.23	0.23

Labor: \$256.50	Parts: \$7.52	Shipping: \$0.00	Item Subtotal: \$264.02
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Item: 20 - Customer Rejected

Discrepancy	Hours	Subtotal
Rudder hinge bearing has slight up and down play, no side to side or forward and aft play.	Rejected	0.00

Corrective Action

...Customer declined any corrective action at this time.

Labor: \$0.00	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$0.00
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Item: 21 - Customer Rejected

Discrepancy	Hours	Subtotal
Fuel cap seals aged and cracked.	Rejected	0.00

Corrective Action

...Customer declined any corrective action at this time.

Labor: \$0.00	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$0.00
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Item: 22 - Customer Rejected

Discrepancy	Hours	Subtotal
Fuel caps do not lock down all the way.	Rejected	0.00

item to be corrected on item #21

Corrective Action

...Customer declined any corrective action at this time.

Labor: \$0.00	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$0.00
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Item: 23 - Airworthy Airframe

Discrepancy	Hours	Subtotal
Rt. Magneto ground broken off.	0.67	100.50

Corrective Action

Rt. magneto grounding ring terminal removed and replaced. Ops check good.

Inspection Information:

Final Inspection: MICHAEL TILLMAN on 06/27/22

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
1	Ea	MS25036-103	Terminal Ring Insulated # 10 Stud 22-16 Wire (RA18-10) (P/O: 10713)		0.50	0.50

Labor: \$100.50	Parts: \$0.50	Shipping: \$0.00	Item Subtotal: \$101.00
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Item: 24 - Recommended Airframe

Discrepancy	Hours	Subtotal
Complimentary aircraft belly de-greased, exterior wash, interior vacuumed and windows cleaned with Annual Inspection from Mangon Aircraft, Inc.	N/C - 0.20	0.00

Corrective Action

Complied with Mangon Aircraft, Inc. Complimentary aircraft belly de-greased, exterior wash, interior vacuumed and windows cleaned with Annual Inspection.

Labor: \$0.00	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$0.00
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Please see the next page for the totals for this invoice

Additional Charges							
Pilot Services	Tire Disposal	EPA Charge	Oil Analysis	Shop Supplies	Fuel	Misc.	Subtotal
0.00	25.00	25.00	0.00	9.89	0.00	0.00	\$59.89

Labor Summary		Total Labor:	\$5,294.00
Shop Labor: \$4,944.00	Outside Repair: \$350.00	Total Parts:	\$1,693.09
		Total Shipping:	\$38.42
Taxed Items:		Additional Charges:	\$59.89
Oil Analysis, Shop Parts, OSR Parts, Shipping In, Shop Supplies		Tax (9.50 %):	\$165.43
Tax Breakdown: (Before Calculated)		Amount Due:	\$7,250.83
Oil Analysis: 0.00		Deposit:	\$4,500.00
Shop Parts: 1,693.09		Balance Due:	
OSR Parts: 0.00		\$2,750.83	
Shipping In: 38.42			
Shop Supplies: 9.89			

Important Information

INVOICES ARE DUE AND PAYABLE WHEN RECEIVED. A FINANCE CHARGE OF 1.5% PER MONTH WILL BE ASSESSED ON ALL INVOICES AFTER 30 DAYS PAST DUE. THIS INVOICE REFLECTS CASH OR CHECK DISCOUNT ALREADY FACTORED IN. IF USING A CREDIT CARD, A 3% HANDLING CHARGE WILL BE ADDED FOR CREDIT CARD TRANSACTIONS.

Mangon Aircraft, Inc. 30 day warranty will cover only repairs or replacements made due to defects in material or workmanship. Mangon, Inc. will replace, at no cost to the customer, any parts that they furnish and install which are found to be defective. This warranty shall not apply to any goods or services which, in the judgment of Mangon Aircraft, Inc., have been altered so as to adversely affect performance or reliability, or which have been subjected to misuse, negligence or accident. This warranty does not extend to Customer-furnished parts or equipment. Mangon Aircraft, Inc. will not cover any time loss, inconvenience, loss of aircraft time, or other consequential damage. I have examined the work list above and agree that all work was done in a Professional Manner and to my satisfaction.

Engdahl Thomas L. or Authorized Representative

Date