

Calkins Aero-Service

Date: 7/24/2018

CUSTOMER INFORMATION

Jim Waller

Houston, TX 77007

Reg. No: 56359

1983 Mooney Aircraft Corp M20k

Current A/C TT: , Tach:

A/C Serial: 25-0745

Customer Invoice**Work Order: 27853****Total Balance Due** (See Below For Cost Detail)**Item: 1 - Airworthy Airframe****Discrepancy**

Annual Inspection

Tach time 2736.1

Last Annual 10-12-2016 @ Tach 2673.8

Hours**Subtotal****Corrective Action**

Ran aircraft and performed compression test, drained oil and serviced with 7 qts Aero Shell 100w50w. Removed and replaced oil filter, cut and inspected old filter OK. Cleaned gapped and rotated spark plugs. Checked mag timing. removed injectors installed in MEK ultrasonic cleaner. reinstalled in engine. ran and leak checked engine found no leaks cowed and cleaned removed panels inspected airframe, cables, pulleys, control rods. jacked acft inspected landing gear cw landing gear emergency extension all ops checks good removed from jacks closed all panels.

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
12	EA	630979-9	Fuel Injector Nossle O-Ring (Taxed)			
6	EA	640612	Bleed Air Washer (Taxed)			
10	EA	A01787-8Z1D	TINNERMEN (Taxed)			
7	EA	Aero Shell - 100W	Qts. 50 Weight Det. Oil (100WQT) (Taxed)			
1	EA	CH48108-1	Oil Filter (Taxed)			
4	EA	NAS1149F0363P	Washer (Taxed)			
1	Gal	Varsol	Mineral Spirits - Cleaning Agent (Taxed)			

Labor:**Parts:****Shipping:** \$0.00**Outside Repair:** \$0.00**Item Subtotal:****Item: 2 - Airworthy Airframe****Discrepancy**

Landing gear will not retract

Hours**Subtotal****Corrective Action**

Put aircraft on jacks, gear will not retract and pops circuit breaker. Opened belly access panels as needed. Trouble shoot gear system. Checked power to gear motor through contactor (good). Disconnect nose gear and main gear push pull rods as per MM chapter 32-20-03. Disconnect manual extension and release cables. Disconnect landing gear actuator bolts as needed and removed actuator assembly. Removed motor from actuator assembly and bench tested. Motor is intermittent and draws high amperage from water contamination. Tried to turn drive on actuator assembly and found very stiff in both directions. Reassembled motor to actuator, filed outside repair form and sent to parts department. Locate GSE 030007 rigging tool. Installed overhauled landing gear actuator and rigged gear, retract and emergency extension checked good, removed aircraft from jacks.

Outside Repair:

Lake Aero Styling & Repair, Labor: , Parts: , Shipping: , Part No.:R102000-2 (OVERHAUL)

Labor:**Parts:** \$0.00**Shipping:****Outside Repair:****Item Subtotal:**

Item: 3 - Airworthy Airframe

Discrepancy

pilot seat not moving back and forward correctly

Hours

Subtotal

Corrective Action

found seat not on track at front right corner. removed seat to find the vertical adjustment aft rod arms broken on both sides at the welds sent for repair, installed back on seat installed seat in acct.

Outside Repair:

AERO STRUCTURAL SERVICES, LLC, Labor: , Parts: 0.00, Shipping: , Part No.:140215-001
(PLEASE WELD/REPAIR AS NEEDED.)

Labor: Parts: \$0.00 Shipping: Outside Repair: Item Subtotal:

Item: 4 - Airworthy Airframe

Discrepancy

fill oxygen and look and see if we have an adapter that fits to the receptacle. He doesn't have the adapter to be able to use his oxygen mask is his problem,

Hours

Subtotal

Corrective Action

serviced oxygen system and put new all in one solo O2 mask in the aircraft.

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
1	EA	ALL IN 1 SOLO	CESSNA 421C OXYGEN MASK KIT (Taxed)			
1	EA	Oxygen	Service Oxygen Bottle (Taxed)			

Labor: Parts: Shipping: \$0.00 Outside Repair: \$0.00 Item Subtotal:

Item: 5 - Airworthy Airframe

Discrepancy

vac press too high

Hours

Subtotal

0.17

17.00

Corrective Action

removed and replaced gauge ops check good

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
1	EA	10-01100	1" Suction Gauge (Taxed)			

Labor: Parts: Shipping: \$0.00 Outside Repair: \$0.00 Item Subtotal:

Item: 6 - Airworthy Airframe

Discrepancy

fuel boost switch spring loaded cover loose

Hours

Subtotal

Corrective Action

reset plate and spring, tightened to secure

Labor: Parts: \$0.00 Shipping: \$0.00 Outside Repair: \$0.00 Item Subtotal:

Item: 7 - Airworthy Airframe

Discrepancy

RESEARCH LOG BOOKS AND AD'S DUE

Hours

Subtotal

Corrective Action

ELT - 7/2017
IFR - LAST 9/27/2017
AIRFRAME - 5477.4
ENGINE - SMOH 753.0
PROP - SPOH 807.7
MAGS - SINCE 500HR 298.4

Labor: Parts: \$0.00 Shipping: \$0.00 Outside Repair: \$0.00 Item Subtotal:

Item: 8 - Airworthy Airframe

Discrepancy	Hours	Subtotal
ELT TEST	[REDACTED]	[REDACTED]

Corrective Action

removed and inspected ordered batt installed new bat ELT BATTERY EXPIRES 7/10/2020
Performed functional test of the ELT in accordance with CFR 91.207.d and was found to be in a functional condition. test good

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
1	EA	BS2173	ELT 6 Battery (Taxed)	100158914	[REDACTED]	[REDACTED]

Labor: [REDACTED]	Parts: [REDACTED]	Shipping: [REDACTED]	Outside Repair: \$0.00	Item Subtotal: [REDACTED]
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Item: 9 - Airworthy Airframe

Discrepancy	Hours	Subtotal
AD 95-17-06 CRACKED EXHAUST TRANSITION TUBE. DUE EVERY 50 HRS	N/C - [REDACTED]	0.00

Corrective Action

read ad inspected motor acft does not have a TSIO-520NB AD does not apply

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

Discrepancy	Hours	Subtotal
AD 84-26-02 AIR FILTER INSPECT EVERY 100 HOURS/ANNUAL REPLACEMENT DUE @ TACH 2937.7	[REDACTED]	[REDACTED]

Corrective Action

inspected found in good condition filter good not due

Labor: [REDACTED]	Parts: \$0.00	Shipping: \$0.00	Outside Repair: \$0.00	Item Subtotal: [REDACTED]
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Item: 11 - Airworthy Airframe

Discrepancy	Hours	Subtotal
AD 76-07-12 R1 IGNITION SWITCH DUE EVERY 100 HRS	[REDACTED]	[REDACTED]

Corrective Action

C/W AD76-07-12 R1 PARAGRAPH A,B,C,D BY RUNNING A/C UP TO NORMAL OPERATING TEMPERATURE, SETTING A/C TO NORMAL IDLE & TURNING KEY TO EXTREME OFF POSITION AND CHECKING DETENTS IN OTHER POSITIONS. OPS CHECK GOOD. NO DEFECTS TO IGNITION SWITCH. NEXT DUE AT 100 HRS TIS or next annual.

Labor: [REDACTED]	Parts: \$0.00	Shipping: \$0.00	Outside Repair: \$0.00	Item Subtotal: [REDACTED]
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Item: 12 - Airworthy Airframe

Discrepancy	Hours	Subtotal
SEND OXYGEN BOTTLE OUT FOR HYDRO TEST	[REDACTED]	[REDACTED]

Corrective Action

removed bottle sent for test. installed bottle secured clamps

Outside Repair:

Bacon Equipment Company, Inc., Labor: [REDACTED] Parts: 0.00, Shipping: [REDACTED], Part No.:Oxygen
(PLEASE HYDRO TEST)

Labor: [REDACTED]	Parts: \$0.00	Shipping: [REDACTED]	Outside Repair: [REDACTED]	Item Subtotal: [REDACTED]
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Item: 14 - Airworthy Airframe

Discrepancy

lh fuel drain leaking i

Hours

Subtotal

[REDACTED]

[REDACTED]

Corrective Action

replaced drain

Qty Unit
1 EA

Part Number
F391-53S

Description
Valve (Taxed)

Serial Number

Unit Price

Subtotal

[REDACTED]

[REDACTED]

Labor: [REDACTED]

Parts: [REDACTED]

Shipping: \$0.00

Outside Repair: \$0.00

Item Subtotal: [REDACTED]

Item: 15 - Airworthy Airframe

Discrepancy

wash plane

Hours

Subtotal

N/C - [REDACTED]

0.00

Corrective Action

washed plane

Labor: \$0.00

Parts: \$0.00

Shipping: \$0.00

Outside Repair: \$0.00

Item Subtotal: \$0.00

Item: 16 - Airworthy Airframe

Discrepancy

LOG ENTRIES NEEDED

Hours

Subtotal

[REDACTED]

[REDACTED]

Corrective Action

LOG ENTRIES COMPLETE

Labor: [REDACTED]

Parts: \$0.00

Shipping: \$0.00

Outside Repair: \$0.00

Item Subtotal: [REDACTED]

Please see the next page for the totals for this invoice

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

Labor Summary

Shop Labor: [REDACTED]

Outside Repair: [REDACTED]

Total Labor: [REDACTED]

Total Parts: [REDACTED]

Total Shipping: [REDACTED]

Total Outside Repair: [REDACTED]

Additional Charges:

\$0.00

Tax (8.25 %): [REDACTED]

Amount Due: [REDACTED]

Deposits & Credits:

\$0.00

Balance Due: [REDACTED]

[REDACTED] hours were needed to complete this Work Order

Taxed Items:

Shop Parts, OSR Parts, Shipping In, Shipping Out, Shop Supplies

Tax Breakdown: (Before Calculated)

Shop Parts: [REDACTED]

OSR Parts: [REDACTED]

Shipping In: [REDACTED]

Shipping Out: [REDACTED]

Shop Supplies: 0.00

Important Information

Maintenance Release - The aircraft and/or components identified above is repaired and inspected in accordance with current Federal Aviation Regulations 14 CFR Part 43 and was found airworthy for return to service. Pertinent details of the repair are on file at this agency under this work order number.

Date: _____

Inspector Signature: _____

*Calkins Aero Service, Inc. is not responsible for loss or damage to aircraft or articles left in aircraft in case of fire, theft or any other cause beyond our control.

*Credit cards are welcome if bill is paid within 10 days.

Jim Waller or Authorized Representative

Date