

**Lone Mountain Aviation, Inc.**

Repair Station No. L90D473Y
1456 Jet Stream Drive
Henderson, NV 89052
Date: 8/16/2021, 3:40 PM

CUSTOMER INFORMATION

Bruce Nixon
Nixon Construction

Reg. No: N84GR
1973 Cessna 340
Current A/C TT: , Hobbs: 1692.8
A/C Serial: 340-0178

Customer Invoice
Work Order: HND0622-05-2021

PAID

SEP 13 2021

ck#
24617

08.16.2021

Item: 1 - Airworthy Airframe

Discrepancy	Hours	Subtotal
Left engine dies in flight. Possible fuel delivery issue.	16.02	3,221.28

Corrective Action

Removed engine fuel pump P/N 646210-11, S/N B05GA135R and installed repaired fuel pump P/N 646210-11, S/N B05GA135R in accordance with Cessna 340 AMM section 9 and CMI M0 Standard Practices Manual section 6. Removed engine flow divider (fuel manifold) P/N 63426-4A8, S/N G298702CR and installed repaired flow divider P/N 63426-4A8, S/N G298702CR in accordance with Cessna 340 AMM section 9 and CMI M0 Standard Practices Manual section 6. Both fuel pump and flow divider were repaired by Aircraft Accessories of Oklahoma, CRS No. RV3R829L under their work order no. 44559. Reference FAA Form 8130-3 dated 24 May 2021. Removed, cleaned, and reinstalled all fuel injector nozzles using new o-rings in accordance with CMI M0 Standard Practices Manual section 6. Repaired a series of upper-deck reference leaks by replacement of all rubber seals and gaskets and securing all clamps and connections referencing CMI M0 Standard Practices Manual section 6. Accomplished satisfactory engine runs and leak checks, and accomplished minor engine fuel pressure adjustments in accordance with Cessna 340 AMM section 9, and CMI TSIO 520NB MM section 73-08.

Outside Repair:

INV21-04330, Labor: 609.39, Parts: 0.00

(ATTN KEN:

Very unstable fuel pressures at higher power settings. Fuel flow falls off as higher power settings are demanded.

Inspect and repair as necessary engine driven fuel pump and flow divider.)

INV21-04330, Labor: 609.39, Parts: 0.00

(ATTN KEN:

Very unstable fuel pressures at higher power settings. Fuel flow falls off as higher power settings are demanded.

Inspect and repair as necessary engine driven fuel pump and flow divider.)

Notes:

Accomplished engine runs referencing Continental MM 72-00-00. Noted left engine would obtain full power, then fuel flow would rapidly decline, with following engine parameters. Engine would stabilize at tops of greens (no boost) but as higher MAPs were attempted, engine performance continued to degrade. Reducing power stabilized performance. Recommend engine fuel pressure set ups using calibrated instrument and GVI inspection of engine.

Connected calibrated equipment and performed additional runs. Noted fluctuating engine-driven fuel pump pressures at all power settings and could not obtain any steady or reliable fuel pressure indications. This is indicative of a failing engine-driven fuel pump.

Removed fuel pump and flow divider (per recommendation of previous maintenance provider) and sent to Oklahoma Accessories. Components were overhauled and returned. Installed components and discrepancy, significantly improved, however still remained at maximum power settings. Troubleshooting steps included inspection / check of all induction system, verification of free-spinning turbo, checks of fuel pressure regulators, etc. Ultimate determination was that, along with metal in the fuel pump (see teardown report) and significant upper-deck reference line leaks, both contributed to the engine power control issues. After installation of repaired components, and repairs to upper deck reference lines were accomplished, engine stabilized and only minor adjustments were required.

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
3	EA	4002-HS	GROMMET, FLUSH, STAINLESS		2.63	7.89
3	EA	40S5-5S	STUD, CAMLOC		10.34	31.02
4	EA	628556	WASHER, FUEL INJECTOR (P/O: AVHND0128)		1.33	5.31
12	EA	630979-9	SEAL O-RING.FUEL INJECTOR (12 per change) (P/O: HND0811)		3.21	38.57
6	EA	633958-3	SEAL, INJECTION HOSE (P/O: HND0637)		2.07	12.43
6	EA	640612	GASKET, FUEL INJECTOR (P/O: HND0473)		0.79	4.71
6	EA	640612	GASKET, FUEL INJECTOR (P/O: HND0473)		0.79	4.71
1	EA	AN929-2D	CAP, ALUM., #2		6.00	6.00

Labor: \$3,221.28

Parts: \$110.64

Shipping: \$250.25

Item Subtotal: \$3,582.17

Item: 2 - Airworthy Airframe

Discrepancy	Hours	Subtotal
Complete Preliminary Inspection.	0.00	0.00
Tach:		
Flight:		
Hobbs: 1692.8		

Corrective Action
 Completed Preliminary Inspection

Labor: \$0.00	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$0.00
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Item: 3 - Airworthy Airframe

Discrepancy	Hours	Subtotal
Complete Post Maintenance Checklist.	0.00	0.00
Corrective Action		
Completed Post Maintenance Checklist.		

Labor: \$0.00	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$0.00
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Item: 4 - Airworthy Airframe

Discrepancy	Hours	Subtotal
Customer reports when right boost pump is selected to hi, engine wants to quit.	2.50	312.50
Corrective Action		
Troubleshoot and determined normal boost pump operation. See notes.		

Notes:

Troubleshooting guide indicates defective fuel pressure switch. Auxiliary fuel pump runs at high speed with engine running in either the on positions. However, due to age of aircraft, it cannot be determined if this aircraft is outfitted as described. It was determined this aircraft does not have fuel pump low adjustment procedure, or fuel pressure switches installed as indicated by C340 AMM.

Fuel pump operational placard is installed in direct view of the pilot requiring the pumps be set to low at take-off.

Labor: \$312.50	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$312.50
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Item: 5 - Airworthy Airframe

Discrepancy	Hours	Subtotal
Upon removal of the LH engine fuel spider discovered attachment bracket had two large cracks.	0.50	62.50
Corrective Action		
Installed new fuel flow divider bracket, attached and torqued engine fuel injector lines IAW Cessna 340 MM sect. 9.		

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
1	EA	642064	BRACKET-MANIFOLD VALVE (P/O: HND0725) (Ship: 10.02)		16.56	16.56

Labor: \$62.50	Parts: \$16.56	Shipping: \$10.02	Item Subtotal: \$89.08
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Item: 6 - Airworthy Airframe

Discrepancy	Hours	Subtotal
Door stop Assembly for upper cabin door broke opening it after an engine run. Fatigue failure.	0.75	93.75
Corrective Action		
Installed door stop assembly for the upper cabin door with reference to Cessna 340 IPC section 2 part 1. No further defects noted.		

Qty	Unit	Part Number	Description	Serial Number	Unit Price	Subtotal
1	EA	5211185-2	Door Stop Assembly (P/O: HND0859)		135.71	135.71

Labor: \$93.75	Parts: \$135.71	Shipping: \$0.00	Item Subtotal: \$229.46
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Item: 7 - Airworthy Airframe

Discrepancy	Hours	Subtotal
Top charge batteries.	0.00	0.00

Corrective Action

Charged batteries with reference to Concorde RG series CMM 5-0171.

Labor: \$0.00	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$0.00
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Additional Charges							Subtotal
Pilot Services	Tire Disposal	EPA	Oil Analysis	Shop Supplies	Fuel	Misc.	
0.00	0.00	25.00	0.00	172.99	0.00	0.00	\$197.99

Labor Summary		Total Labor:	\$3,690.03
Shop Labor: \$2,471.25	Outside Repair: \$1,218.78	Total Parts:	\$262.91

The estimated total was \$4,457.90

Taxed Items:

Clark County % of Sales Fee

Tax Breakdown: (Before Calculated)

Calculated Extra Taxes

Clark County % of Sales Fee: 49.43

Total Shipping:	\$260.27
Additional Charges:	\$197.99
Tax:	\$49.43
Amount Due:	\$4,460.63
Deposit:	\$0.00

Balance Due:	\$4,460.63
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Important Information

MAINTENANCE RELEASE

The aircraft and/or component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details are on file at this facility under the above W.O. number.

Authorized Signature: _____ Date: 08/16/2021

CRS Number: L9OD473Y

We ask it that it be understood by our valued customers that it is the policy of Lone Mountain Aviation all sales must be considered as payment due at time of delivery (COD) unless prior arrangements have been made in writing, and approved by company management.

Acceptable forms of payment include cash, check, money order, credit card, wire transfer, and / or other electronic means.

Visa, Mastercard, Discover and American express cards are accepted. An administrative fee of 3.5% will be added to all credit card transactions.

Unpaid balances after 30 days will be charged a 18% annual interest rate or 1.5% monthly. Aircraft will be subject to a lien and be charged a storage fee of \$50.00 per day.

Any disputes will be resolved in the Nevada Courts in Clark County according to Nevada Law and the prevailing party will be entitled to reimbursement of attorney's fees

Bruce Nixon or Authorized Representative

Date

**Lone Mountain Aviation, Inc.**

Repair Station No. L9OR473Y
2830 North Rancho Drive Ste A
Las Vegas, NV 89130
Date: 5/5/2021

Customer Record

Bruce Nixon (Reg. Number: N84GR)

Contact Info: Nixon Construction 154 Highway 467 Parales, NM. 88130 575.760.0543	Current Engine Information: Cyl: 1 2 3 4 5 6	Dates Due: Annual: ELT Battery: Corr. Treat: O/2 Bottle: FAR 91.411: FAR 91.413:
Aircraft Info: Reg. No: N84GR Serial No.: A/C Info:	Last Oil Change: Date: Tach:	

Current W/O or W/O Quote Number: HND0622-05-2021

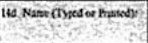
Aircraft Information

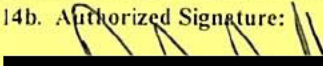
A/C TT	A/C Tach	Hobbs 1692.8	Eng. Model No.	Eng O/H Date	Eng TSMOH
Eng TT	Eng SN	Eng TBO	TT Vac. Pump	A/C Battery Date	Eng TSN
Prop O/H Date	Prop S/N	Prop Model No.	Prop TBO	Prop TT	Last Prop Balance
Heater Hobbs	100 Hour	50 Hour	Warranty Date	Prop TSPOH	Prop TSN
Eng Manufacturer	Prop Manufacturer	Airswitch	Reg. Expires	Gross Weight	

Work Order / Quote History:

HND0622-05-2021, HND0614-05-2021

Notes:

1. Approving Civil Aviation Authority Country FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number 7724546	
4. Organization Name and Address Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215				5. Work Order Contract Invoice Number 4334954		
6. Date 10	7. Description BRACKET	8. Part Number 642064	9. Quantity 1	10. Serial Number N/A	11. Status Work New	
12. Remarks AUTHORIZED RELEASE DOCUMENT PO#: HND0725						
13a. ☒ Approved design data and are in a condition for safe operation ☐ Non approved design data specified in Block 12			13b. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and is subject to that work, the item was approved for return to service.			
13c. Authorized Signature 		13d. Approval Authorization No. PC4		13e. Authorized Signature 	13f. Approval Certificate No. 	
13g. Name (Typed or Printed) PAUL F MAYER		13h. Date (dd/mm/yyyy) 13/May/2021		13i. Name (Typed or Printed) 	13j. Date (dd/mm/yyyy) 	
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine propeller article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s) propeller(s) article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13c and 13h do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 052421	
4. Organization Name and Address:		AIRCRAFT ACCESSORIES OF OKLAHOMA 2740 North Sheridan Rd Tulsa, OK 74115				5. Work Order/Contract/Invoice Number: WO 44559	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:		
1	FUEL PUMP MANIFOLD	646210-11 63426-4A8	1 1	B05GA135R G298702CR	REPAIRED		
12. Remarks: THE PART IDENTIFIED ABOVE WAS REPAIRED IN ACCORDANCE WITH FAA DATA. OVERHAUL MANUAL # AAO 1000 THERE ARE NO APPLICABLE AIRWORTHINESS DIRECTIVES. WORK ORDER 44559 SHOWING THE ACTUAL WORK P.T.R. 000-65 PERFORMED IS ON FILE AT THIS FACILITY.							
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.				14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature:		14c. Approval/Certificate No.:	
				 		RV3R829L	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):	
				David Dutton		24-May-2021	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the regulations by the user/installer before the aircraft may be flown.							

SERVICE BULLETINS

AD'S NA
O/H MANUAL#
AAO1000



OF OKLAHOMA, INC.

FAA APPROVED REPAIR STATION

CRS# RV3R829L

2740 NORTH SHERIDAN ROAD - TULSA, OK 74115

P.O.# _____

SHIP VIA _____

OVERHAUL

REPAIR

EXCHANGE

SALE

MAINTENANCE TRAVELER

CUSTOMER LONE MOUNTAIN AVIATIONWORK ORDER # 44559 DATE: 5/24/21

Continental Fuel System TSIO 520

Pump P/N 646210-11

Thr-Body Controller P/N _____

Manifold P/N 63426-4A8

Nozzle P/N _____

Fuel Pressure Limiter P/N _____

Assemble KRSS/N B05GA135R

S/N _____

S/N G298702CR

FUEL LINES _____

S/N _____

Test KRS

PART # & NAME

QTY

COST

PART # & NAME

QTY

COST

NORMAL

PUMP

653747	GASKET	1
657117	Seal	1

WE ALSO CHANGED THE BELLOWS

DISASSEMBLED PUMP FOUND METAL
SHAVING IN UNIT IT WAS IN THE FUEL
MANIFOLD TO CLEANED OUT

ALL THROTTLE BODY CONTROLS

THR - BODY CONTROLS PARTS CON'T

MANIFOLD VALE ASSEMBLY

631330	SEAL	1
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CLEANED OUT RECHECKED FLOW

FUEL PRESSURE LIMITER

NOTES:

LABOR HOURS 1HR

MECHANIC _____

PARTS _____

LABOR _____

INSPECTOR _____