

**Repairs and Alterations**  
 (g and Certificate Number of  
 for other specific entries.)

NO VIB	PRESS ALT FEET X 1000	VIB	DIFF	BAROMETRIC SETTING			
				DIAL	CORRECT	POINT	ERROR
				28 10	-1727	-1745	18
	-1			28 50	-1340	-1345	5
	0			29 00	-863	-875	12
	5			29 50	-392	-375	17
-25	1	10		29 92	0	0	0
	1.5			30 50	531	510	21
-20	2	25		30 90	893	875	18
-25	3	10		30 99	975	180	795
	4			HYSTERESIS AND AFTER EFFECT			
-40	5	25					
	6			ALT	READ	DIFF	
	8			10	-20	25	
-75	10	40		20	-20	20	
	12			1155	1175	20	
	14			POSITION		ERROR	
-140	15	59		NORMAL		X	
	16			90R			
	18			90L			
-10	20	50		180			
	22			CASE LEAK 11			
	25			MFG <i>W/td</i>			
	30			P/N <i>5934D-3</i>			
	35			S/N <i>445800</i>			
	40						
	45						
	50						

*211-1-1205*

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE				

BLAKNEY AVIATION, INC. — WILEY POST AIRPORT — BETHANY, OK 73008

N33RK

5-3-2012

Airframe

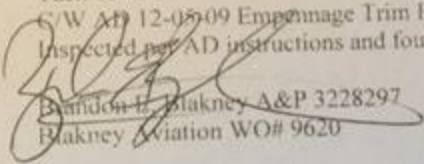
Mooney M20K

1

S/N 25-1160

Tach 1346.4

C/W AD 12-05-09 Empennage Trim Fitting And Mounting Hardware.  
Inspected per AD instructions and found to be satisfactory at this time.

  
Brandon H. Blakney A&P 3228297

Blakney Aviation WO# 9620

## BLAKNEY AVIATION, INC. — WILEY POST AIRPORT — BETHANY, OK 73008

N33RK	11-22-2012	Airframe
Mooney M20K	S/N 25-1160	Tach 1352.5

Total Time 1352.5

Engine TSMOH 309.5 in 5-2002

Prop TSOH 640.2 in 6-1991

Annual inspection completed and maintenance performed in accordance with FAR 43 Appendix D, referenced Mooney M20K maintenance manual and parts catalog, and TCM engine manual. C/W FAR 91.417

Para (A) (2) (V) Researched and verified AD notes thru issue 12-22.

Completed a new up to date computerized AD Note list and put with the aircraft records. Checked aircraft for conformity with FAA Type Certificate. Checked all required placards and markings. Checked Equipment List, Weight & Balance record, A.F.M., Registration

Certificate, and Airworthiness Certificate. Reviewed aircraft maintenance records. (Continued)

YEA

BLAKNEY AVIATION, INC. — WILEY POST AIRPORT — BETHANY, OK 73008

DA1

Dressed and touch-up painted propeller blades. Inspected prop hub and inspected prop spinner. Cleaned and repacked all wheel bearings and inspected brakes. Serviced brake fluid reservoir. Washed and lubed landing gear system. Serviced tires to proper pressures. Checked landing gear door fairings and checked gear down-lock tensions. Ops checked gear warning horn and found satisfactory. Performed landing gear retraction and emergency gear extension checks. Found gear operation and all indications normal and smooth at this time. Lubed and rotated flight control cable push pull tubes and rod ends. Checked travels and stops. Operational checked trim tab travels and found satisfactory. Service battery and checked lights. Cleaned main fuel screens and sumped fuel tanks. No fuel leaks. Inspected and ops checked ELT per FAR 91.207 Para (d) and found satisfactory. De activated and placarded oxygen system inop. (Continued)

YEAR:

DATE

BLAKNEY AVIATION, INC. — WILEY POST AIRPORT — BETHANY, OK 73008

Removed A/H for warranty repair by Kelley Aerospace (CRS# OP2RO65L)(Inv 111944). Re-installed and ops checked satisfactory at this time. Replaced engine mount cross beam bumpers (P/N J7444-34). C/W AD 76-07-12 (R1) Ignition Switches. Ops checked good. C/W AD 85-24-03 Fuel Tank Sealant Application. Inspected per AD and SB M20-229A instructions. No defects noted at this time. AD 86-26-02 Paper Induction Air Filters. Next due replaced 1819.4 Total Time. Opened up fuel bay on right wing. Repaired as necessary per M/M instructions and leak checked good at this time. Cleaned, treated and painted battery box with acid proof paint. Replaced fuel cap o-rings (MS29513-338, 4 each) Replaced brake disc (164-12000) and linings (066-10500) on both main wheels. Serviced and bled brake system with A/S Fluid 4. Ops checked and leak checked satisfactory at this time. Replaced lower de-ice brushes (P/N 3E2062-2). Ops checked satisfactory at this time. (Continued)

BLAKNEY AVIATION, INC. — WILEY POST AIRPORT — BETHANY, OK 73008

Replaced heat exchanger seat duct (P/N 640001-027). Replaced nose gear tow limits placard. Removed propeller for M&M Propellers (CRS# M71R2070) repaired and re-sealed propeller. (WO# 2836). Replaced nose gear shock mounts (P/N 530021-000, 3 each) per M/M-IPC instructions. Ops checked satisfactory at this time. Replaced instrument air filters (2J4-7)(D9-18-1)(B3-5-1). See AD list for one time and recurring AD's. "I certify that this aircraft has been inspected in accordance with an annual inspection and determined to be in airworthy condition at this time."

Blakney Aviation A&P 8228297 IA Blakney Aviation WO# 9675

YEAR:

RECORDING  
TACH  
TIMETODAYS  
FLIGHTTOTAL  
TIME IN  
SERVICE**Description of Inspections, Tests, Repairs and Alterations**

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

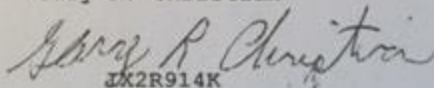
DATE

Calvin Taff Electronics, Inc.

N33RK M20K Mooney SN 25-1160 Hours 11358.6, 01-01-2013  
WO 11887

Removed NSD 360 52D137-1333 SN 16018A, and replaced, SN same, after repair by OL2R061L. Hoses cleaned and filter checked, gyro running not issue. Ran A/C through known HDG and found a Card compass off and gyro closer. Good Vacuum. System is ready for return to service.

Gary R. Christian



JK2R914K

YEAR: 2014 DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
2-11-14	1403.4	-	1403.4	Aircraft was Inspected, Serviced, & Lubricated IAW Mooney M20K Service Manual Check List. Jack R/K performed Log Gear Retraction & Emergency Gear Extension Checks. Gear Operation Good & this time. Clean, Inspect, & Pack all wheel Bearings. Inspect wheels, tires, & brakes. Open up fuel Bays on both Wings. Repair as needed per Mooney Service Manual. Leak Check Good & this time. Open Inspection Panels Check Pulleys, Cables, Push/Pull tubes, Rods & Rod Ends. Service Battery & Charge. Service Brake system with fld. Lub & Grease Winge Points. Cont to next page →



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YEAR: 2414 DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
2-11-14	1403.4	-	1403.4	Check Lites, Stall Warning, Pitot Heat, 4 Strobes. AD 85-2403 Fuel TANK SEALANT Cw AD+SB M20- 229A date 2-12-86 Next due +100hrs/ 12 mths. AD 76-0712 Bendix Switches Cw by Ops Check, Next due +100hrs/12 mths. AD 84-2602 Induction Paper Air Filter PCW Visual Inspect next due 1/17/1819.4 FAR 91.307 ELT Cw (d) (1-4) Next due +100hrs/ +12 mths Install new Battery Good til Dec. 24/16.
Date 2-11-14	total time 1403.4			Date 02-11-2014 " 1403.4
I certify this AIRCRAFT has been inspected in accordance with a 100 hr inspection and was determined to be in airworthy condition.				I certify this AIRCRAFT has been inspected in accordance with an Annual inspection and found to be in airworthy condition
Signature [Signature] A&P No. 4642316?				Signature [Signature] IA-1721137

YEAR: 2015 DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
5-26-15	1449.5	-	1449.5	<p>AIRCRAFT was Inspected, Serviced,          &amp; Lubricated IAW Mooney MROK          Service Manual Check List. Also          Also Performed Ldg Gear Retraction          &amp; Emergency Gear Extension,          Checks, Gear Operation Guide this          time. Clean, Inspect, &amp; Pack All          wheel Bearings. Inspect wheels,          tires, &amp; Brakes. Replace All Brake          Linings with new. Open up fuel          Bay <sup>SR/H</sup> Wing Only. Repair as          Needed per Mooney Service Manual.          Open Inspection Panels, Check          Pulleys, Cables, Push/Pull Rods &amp; tubes.          Service Battery &amp; Charge. Lub &amp;          Grease Hinge Points. Cont to next page</p>

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YEAR: 2015 DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
5-26-15	1449.5	-	1449.5	Check Lites, Still Waxing, Pitot Heat & Stabes, Replace Both Ldg Lites with New GK 4596 buets. Replace All O-Rings on ALL Fuel Caps. Replace Filter Cartridge P/N DP-18-1 & Filter Assy P/N 259-7 in Vacuum System. AD's Checked to this A/c Model & S/N using t.date, Rev 2415-8. AD 85-24-03 Fuel Tank Sealant Application CW AD + SO M20-229A dated 2.12.96, Next due +100hrs/+12mths. AD 84-26-02 Induction Paper Air Filters, PCW 9.14-2411 A/c TT 1319.4 Visual Inspect & Clean Replace Filter Every 500 hrs, Visual Inspect Every 100 hrs +12mths. Cont to next Page →

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YEAR: 2015 DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
5-26-15	1449.5	-	1449.5	AD 76-02-12 Bendix Switches CW by Ops Check, Next due +100hrs/12MTHS FAR 91.207 ELT CW (d) (1-4) Next due +100 hrs / +12 MTHS. ELT Battery Good till Jan, 2016. — Need Certification for Altimeter and Static System IAW FAR 91.411 and FAR 43 Appendix E -
5-26-15			1449.5	05-26-2015 1449.5
I certify this Aircraft				I certify this Aircraft
in accordance with a 100 hr.				in accordance with an Annual
inspection and was				inspection and
deemed to be in airworthy condition.				deemed to be in airworthy condition
Signature: <u>[Signature]</u> AIP No. 44429169				<u>[Signature]</u> IA 1281209

Customer Name ARKAY Aero Date 6/25/08 Tech G. Pals Insp RP  
 Make UI Model 59340-3 Type Standard Serial No. 445800

**Test # 1 - Scale Error @ 29.92**

Altitude (feet)	Equiv. Press (In. Merc.)	+/- feet	Altimeter Reading	Encoded Altitude
-1000	31.018	20	-1000	-1000
0	29.921	20	0	0
500	29.385	20	500	500
1000	28.856	20	1000	1000
1500	28.335	25	1500	1500
2000	27.821	30	2000	2000
3000	26.817	30	2985	3000
4000	25.842	35	3985	4000
6000	23.978	40	5970	6000
8000	22.225	60	7950	8000
10000	20.577	80	9940	10000
12000	19.029	90	11940	12000
14000	17.577	100	13930	13900
16000	16.216	110	15920	15900
18000	14.942	120	17910	17900
20000	13.750	130	19900	19900
22000	12.636	140		
25000	11.104	155		
30000	8.885	180		
35000	7.041	205		
40000	5.538	230		
45000	4.355	255		
50000	3.425	280		

**Test #3 - After Effect**

Altitude (feet)	+/- feet	Altimeter Reading
0	30	710

**Test # 4 - Friction**

Altitude (feet)	+/- feet	Altimeter Reading
1000	70	20
2000	70	10
3000	70	40
5000	70	40
10000	80	50
15000	90	50
20000	100	60
25000	120	
30000	140	
35000	160	
40000	180	
50000	250	

**Table # 2 - Hysteresis**

	Tolerance (+/- feet)	Maximum Altitude		
		20K	35K	50K
50%	75	±20		
40%	75	±20		

**Test #5 - Baro. Scale Error**

Scale Setting	Range	Altimeter Reading
28.10	-1702 to -1752	-1740
28.50	-1315 to -1365	-1340
29.00	-838 to -888	-870
29.50	-367 to -417	-340
29.92	-25 to +25	0
30.50	506 to 556	530
30.90	868 to 918	890
30.99	949 to 999	980

Case Leak Test (100 ft/min)	2.0
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