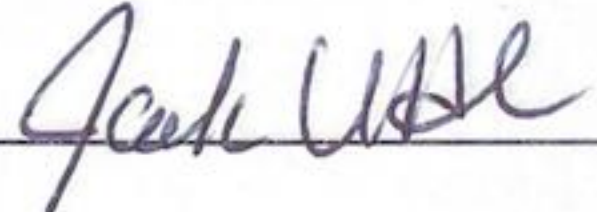



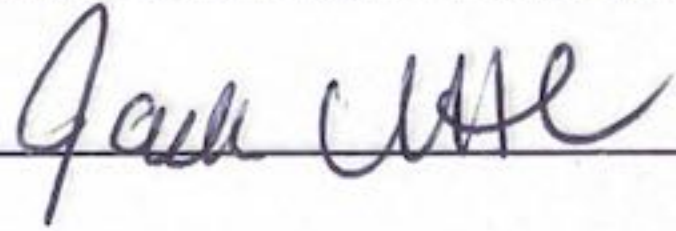
MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
			<p>6/21/2019</p> <p>s/n 24-1658</p> <p>N5216E</p> <p>1988 Mooney M20J 201</p> <p>Tach 468.80</p> <p>ETT 1981.90</p> <p>Replace fuel pump assembly with new Weldon #A8163A assembly and clean strainer. Replace wing fuel drain valves #F391-53S. Replace engine cowl baffles with Teflon #VISR3. Replace heat and vent scat duct tubing #05-29908-2 & #05-29908-3.. Replace ram air horn housing air horn with Aerofab Custom Metal #600360-501 and air horn to cowl seal #R581559. All parts supplied by airplane owner.</p> <p style="text-align: center;">  _____ Jack Uhl IA #3170544 </p>	

MAINTENANCE RECORD

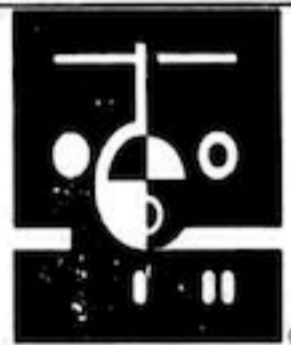
DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
6/21/2019			<p style="text-align: center;">N5216E</p> <p style="text-align: center;">1988 Mooney M20J 201</p> <p>Perform complete preventative maintenance inspection of aircraft per 14CFR Part 43. Remove upper and lower engine cowling, jack up airplane, remove all inspection panels, belly pan, degrease and clean all areas of airplane, lubricate all linkages, hinges, landing gear, clean and ceramic coat entire plane. Replace main and nose tires with new Goodyear tires and new tubes. Repack main and nose wheel bearings and inspect brake condition (80% friction material remaining). Top off brake fluid. Replace rear strobe/navigation light assembly with new Whelen #A500AV14. Weigh airplane with all fuel drained from tanks and verify most current W&B documentation. Test portable oxygen system, replace oxygen system regulator batteries, check flow rates and clean all lines, nose pieces and masks.</p>	<p style="text-align: center;">Tach 468.80</p> <p style="text-align: center;">ETT 1981.90</p>
			<p style="text-align: center;"> James J Thomas Owner-Private Pilot Cert #4274604</p>	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS		
8/19/2019		<p style="text-align: center;">N5216E</p> <p style="text-align: center;">1988 Mooney M20J 201</p> <p>Inspection of fuselage tubular structure service bulletin number M20-208B. Remove front and rear seats. Remove ABS vinyl kick panels. Remove interior ABS vinyl side panels, (window trim) RH and LH. Remove carpeted spar closeout panel. Remove duct tape to enable inspection of weld joints and bottom of tubular structure. Inspect insulation for dampness (none noted). Inspect for signs of water leaks between side windows and aluminum skin (none noted). Inspect for signs of corrosion on tubular structure (no visible signs of corrosion or water intrusion exist). Re- tape all areas where duct tape was removed for inspection. Airplane is in compliance with M20-208B. During removal of interior ABS vinyl all panels were prepped with SEM plastic prep and painted with SEM plastic color refurbisher and reinstalled. The original interior was washed in compliance in accordance with manufacturers specifications. Carpet and carpeted side panels were replaced with Airtex FAA – PMA certified replacements that meet the minimum requirements of part 23.853 burn testing of 1.5 inches per minute. All interior components supplied by aircraft owner.</p>	<p style="text-align: center;">Tach 477.86</p> <p style="text-align: center;">ETT 1990.96</p>
		 _____	<p style="text-align: center;">Jack Uhl IA #3170544</p>

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
12-8-19 12-8-19	TACH 536.6		a/w 100hr Insp on fuel injector lines Per AD 2015-19-07 due again @ 436.6	Duncan Kautz AP 4705426



**DUNCAN
AVIATION**

Reg #:	N5216E	Date:	27DEC2019
Make:	Mooney	Hobbs:	Tach: 540.45
Model:	M20J	Tach:	TT: 2053.55
Serial:	24-1658	Work Order:	7669A

24 month tests and Inspections of the ATC transponder:

- A. The Transponder Tests and Inspections required by Title 14 CFR Part 91.413 have been performed and found to comply with Title 14 CFR part 43, Appendix F.
- B. Transponder Model: GTX-345 Serial No. 3EG007524
- C. The transponder was tested on 27-DEC-2019.

The above described repair or maintenance is approved for return to service. Pertinent details of this repair/maintenance are on file at this repair station under Work Order # 7669A.

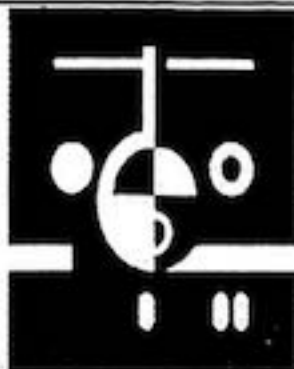
Signed: Duncan
QI 1417
 For Duncan Aviation CRS DXSR467X Phone: 651-209-8430

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE CERTIFICATE & NUMBER
	HOURS	10THS		
1-3 2020	544.	03	C/W 100 INSP C/W Checked all control Rods Bearings Performed gear retractor test normal v emergency. Checked all wheels & brakes. Checked EPT Per FAR 91	
			207. This inspect done IAW Mooney 100 insp guide.	
			<p>I certify that this AIRCRAFT has been inspected IAW a annual inspection and found to be in airworthy condition. Chuck Rautiola A&P 470542632 IA</p> <p><i>Chuck Rautiola 1-3-2020</i></p>	




MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE NUMBER																
	HOURS																		
		<div style="display: flex; align-items: center;">  <div style="font-weight: bold; font-size: 1.2em; margin-right: 10px;">DUNCAN AVIATION</div> <table style="font-size: 0.9em; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Reg #:</td> <td style="padding: 2px;">N5216E</td> <td style="padding: 2px;">Date:</td> <td style="padding: 2px;">03JAN2020</td> </tr> <tr> <td style="padding: 2px;">Make:</td> <td style="padding: 2px;">Mooney</td> <td style="padding: 2px;">Hobbs:</td> <td></td> </tr> <tr> <td style="padding: 2px;">Model:</td> <td style="padding: 2px;">M20J</td> <td style="padding: 2px;">Tach:</td> <td style="padding: 2px;">0544.3</td> </tr> <tr> <td style="padding: 2px;">Serial:</td> <td style="padding: 2px;">24-1658</td> <td style="padding: 2px;">Work Order:</td> <td style="padding: 2px;">7669A</td> </tr> </table> </div> <p style="margin-top: 10px;">A) 24 Month Certification of the Aircraft Static Pressure System:</p> <ol style="list-style-type: none"> 1) The altimeter instrument and static pressure system Tests and Inspections and automatic pressure altitude reporting system required by Title 14 CFR 91.411 and the ATC Transponder Test and Inspection required by Title 14 CFR 91.413 have been performed and found to comply with Title 14 CFR Part 43, Appendix (E) and (F). <ol style="list-style-type: none"> a) The #1 altimeter was tested to 20,000 feet on 03JAN2020. b) The Transponder was tested on 03JAN2020. c) The Encoder Data Correspondence was tested to 20,000 feet on 03JAN2020. d) The Static Pressure System was Tested and Inspected on 03JAN2020. Altimeter 5934PA-1, SN:1E636 Encoder A-30.9, SN:143451 Transponder GTX345, SN:3EG007524 <p style="margin-top: 20px; font-style: italic; font-size: 0.8em;">The above described repair or maintenance is certified airworthy and approved for return to service. A detailed record is on file under Work Order # 7669A.</p> <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 10px;"> <div style="width: 60%;"> <p>Signed: <u>Vincent Fogarty</u> QI 1148</p> <p>For Duncan Aviation CRS DXSR46/X Phone: 651-209-8430</p> </div> <div style="width: 35%; text-align: right;"> <p>03JAN2020</p> </div> </div>	Reg #:	N5216E	Date:	03JAN2020	Make:	Mooney	Hobbs:		Model:	M20J	Tach:	0544.3	Serial:	24-1658	Work Order:	7669A	
Reg #:	N5216E	Date:	03JAN2020																
Make:	Mooney	Hobbs:																	
Model:	M20J	Tach:	0544.3																
Serial:	24-1658	Work Order:	7669A																

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE CERTIFICATE & NUMBER
	HOURS	10THS		
19 Feb 2024	587	9	100 hr insp G/W, checked gear for Proper operation Checked Battery, Checked EAT Per FAR 91-207 Checked all Push Push Rods. Checked AD's to date.	
			<p>I certify that this <u>Air Craft.</u> has been inspected IAW a annual inspection and found to be in airworthy condition. Chuck Rautiola A&P 470542632 IA <i>Chuck Rautiola IA</i></p>	

MAINTENANCE RECORD

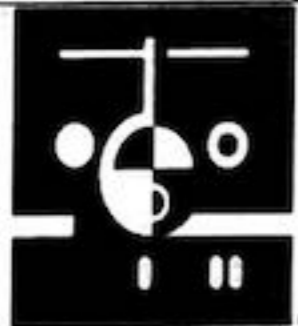
DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
			<p>02/18/2021</p> <p>s/n 24-1658</p> <p>N5216E</p> <p>1988 Mooney M20J 201</p> <p>Tach 587.9</p> <p>ETT 2101.0</p> <p>Inspected and test cylinder head temperature fluctuation, remove engine cowl, test and isolate faulty cylinder head temperature sensor probe. Replace cylinder head temperature sensor probe with new replacement part # 3080-38. Retest operation and verify normal cylinder head temperature gauge operation.</p> <p>Check landing light operation and isolate failed bulb. Replace landing light bulb with new replacement Whelen Parmetheus Plus LED landing light model # P46P1L / part # 01-0790750-10. Test, adjust and verify normal operation.</p> <p> James J Thomas Owner-Private Pilot Cert #4274604</p>	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
2022 3-15	667.1		100 hr inspection Checked all control Rod, Flight controls, Performed gear Retraction, Replaced Aircraft Battery PN Gull 7035-28 Checked alt Per FAR 91-207. Annual inspection C/W Per money inspection Guide. EIT Battery due - 4-24	
			I certify that this <u>Aircraft</u> has been inspected IAW a annual inspection and found to be in airworthy condition. Chuck Rautiola A&P 470542632 IA <i>Chuck Rautiola</i>	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		



DUNCAN
AVIATION

Reg #:	N5216E	Date:	15-Mar-2022
Make:	Mooney	TACH:	667.40
Model:	M20J	Work Order:	8T6FA
Serial:	24-1658		

A) 24 Month Certification of the Static Pressure System and the Transponder System:

1) The altimeter instrument and static pressure system tests and inspections and automatic pressure altitude reporting system required by Title 14 CFR Part 91.411 and ATC transponder tests and inspections required by 14 CFR Part 91.413 have been performed and found to comply with Title 14 CFR Part 43, Appendices E and F. All units and systems tested to 20,000 ft.

- a) Altimeter Make: United Model: 5934PA-1 S/N: 1E836
- b) Encoder Make: ACK Model: A-30.9 S/N 143451
- c) Transponder Make: Garmin Model: GTX345 P/N 006-B1607-05 S/N: 3EG007524

The above described repair or maintenance is certified airworthy and approved for return to service. A detailed record is on file under Work Order # 8T6FA.

Signed: *Dan Beecher*

DUNCAN
QT 2651

15-Mar-2022

For Duncan Aviation CRS DXSR467X Phone: 651-209-8430

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
2023 APR 3	732	9	C/W 100 hr IASP checked all flight controls, control rods, perform gear retraction normal & emergency. Checked ELT per	
ACHT	2242	4	FAR 91-207 battery due 4-2024. Changed tires to bes, replaced Brake Pads, flushed brake fluid, replaced Door Seal.	
			I certify that this AC has been inspected IAW Mooney IASP Guide.	
			<p>I certify that this <u>Aircraft</u> has been inspected IAW a annual inspection and found to be in airworthy condition.</p> <p>Chuck Rautiola A&P 470542632 IA</p>	

DATE	TO
	IN
	HOU



Lake Elmo Aero
 3275 Manning Ave N
 Lake Elmo, MN 55042
 651-777-1399

Make: MOONEY
 Model: M20J
 Tail: N5216E
 S/N: 24-1658

Date: 10/17/2024
 Tach: 830.21
 AFTT: 2343.31

- INSPECTED THIS AIRCRAFT IN ACCORDANCE WITH A MOONEY 100 HOUR INSPECTION GUIDE.
- REMOVED ORIGINAL ELT AND INSTALLED AN ARTEX ME406 ELT WITH NEW ANTENNA. CONNECTED ELT TO GPS SOURCE FOR LOCATION. INSPECT AND TEST ELT IN ACCORDANCE WITH FAR 91.207d. NEW BATTERY DATE 5/2031.
- REPLACED RIGHT INNER MLG DOOR ATTACH BRACKET PART NUMBER 550085-501.
- REMOVED RIGHT UPPER MLG DOOR AND REPLACE STRESS CRACKS IN SKIN. INSTALL AND ADJUST AS NECESSARY TO REDUCE TENSION.
- INSTALLED JPI EDM-830 ENGINE MONITOR IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS. SEE FAA FORM DATED THIS DATE.
- REMOVE ADF STORM SCOPE AND ASSOCIATED EQUIPMENT, ANTENNAS AND WIRING. PATCH ANTENNA HOLES AS NECESSARY.
- REPLACE VOLTAGE REGULATOR PART NUMBER R15000.
- REPLACE TKS FILTER TYPE 903 PART NUMBER 19295.
- REPLACED THE VACUUM PUMP FILTER PART NUMBER AA2J4-6.
- INSTALLED SUPPLEMENTAL INSTRUMENT LIGHTING UNDER GLARE SHIELD. LIGHT AND CONTROLLER PART NUMBER SPTPWMLDWS. SEE FAA 337 DATED THIS DATE.
- INSTALLED BATTERY BACK UP SYSTEM PART NUMBER IBBS-12V-6ah-CRT-V MADE BY TCW TECHNOLOGIES TO POWER THE #2 ELECTRO-AIR IGNITION SYSTEM. SYSTEM PURCHASED FROM ELECTO-AIR. SEE FAA FORM 337 DATED THIS DATE.

CONT ON NEXT PAGE

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
			CONT FROM PREVIOUS PAGE	
			<ul style="list-style-type: none"> REPLACE THROTTLE CONTROL CABLE PART NUMBER MC660226-001, MIXTURE CONTROL CABLE PART NUMBER MC660226-005 AND PROPELLER CONTROL CABLE PART NUMBER MC660226-003 REMOVED HSI DISPLAY PART NUMBER NSD360A AND INSTALLED REMANUFACTURED DISPLAY PART NUMBER NSD360A SERIAL NUMBER 1-8754 OVERHAULED BY MID CONTINENT AVIONICS, CRS OL2R061L UNDER WORK ORDER 576406 DATED 1/22/2024. REPLACED ORIGINAL AUDIO PANEL WITH GARMIN GMA 345 PART NUMBER 010-01319-03 SERIAL NUMBER 3Z0101521. ADs CHECKED THROUGH ISSUE 2024-18. SEE AD LIST FOR DETAILS. COMPLY WITH AD 11-10-09 BY INSPECTING SEAT RAILS AND LOCK PINS. NO DEFECTS NOTED. NEXT DUE 3982.85 <p>I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION.</p> <p>Signed: <u>B. Laughery</u> Cert: A&P 22257389 IA</p> <p>Name: BOB LAUGHERY</p>	



DUNCAN AVIATION

Reg #: N5216E
Make: Mooney
Model: M20J
Serial: 24-1658

Date:
TACH:
ACFTT:
HOBBS:
Work Order:

DATE	TOTAL TIME IN SERVICE	
	HOURS	10THS

- A) Pitot Static System Excessive Leak Rate:**
Tightened multiple Pitot system fittings, replaced Nylon tubing between multiple instruments, resealed Rate of Climb indicator fitting. Final leak check meets requirements of 14 CFR 43.3.
- B) Altimeter Replacement:**
Removed United Instruments Altimeter P/N 5934PA-1 S/N 1E836. Installed overhauled ex United Instruments Altimeter P/N 5934PA-3A.184 S/N 502204.
- C) ACK A-30.9 Encoder Calibration:**
Adjusted ACK Model A-30.9 S/N 143451 IAW ACK Technologies A-30 Altitude digitizer operation/installation manual section 5 Calibration procedure. Final correspondence meets 14 CFR 91.217.
- D) 24 Month Certification of the Static Pressure System and the Transponder System:**
The altimeter instrument and static pressure system tests and inspections and automatic pressure altitude reporting system required by Title 14 CFR Part 91.411 and ATC transponder tests and inspections required by 14 CFR Part 91.413 have been performed and found to comply with Title 14 CFR Part 43, Appendices E and F. All units and systems tested to 20,000 ft.
 - a) Altimeter Make: United Instruments P/N 5934PA-3A.184 S/N 502204.
 - b) Encoder Make: ACK Model: A-30.9 S/N 143451
 - c) Transponder Make: Garmin Model: GTX345 P/N 006-B1607-05 S/N: 3EG007524

The above described repair or maintenance is certified airworthy and approved for return to service. A detailed record is on file under Work Order # KVG2A.

Signed: 

DUNCAN
QI 2651

01NOV2024

For Duncan Aviation CRS # JGVR194F Phone: 800-228-4277

