

AIRFRAME MAINTENANCE RECORDS

Log No. 3

Aircraft Registration No. N 4387W

Aircraft Mfg. Mooney Model M20K Serial No. 25-1125

Engine Mfg. _____ Model T510-360-MB2 Serial No. 317223

Engine Mfg. _____ Model _____ Serial No. _____

Propeller Mfg. _____ Model _____ Serial No. _____

Hub Design No. _____ Hub Serial No. _____

Blade Design No. _____ Blade Serial No's. _____

Propeller Mfg. _____ Model _____ Serial No. _____

Hub Design No. _____ Hub Serial No. _____

Blade Design No. _____ Blade Serial No's. _____

(All applicable information must be filled in)



AEROTECH PUBLICATIONS INC.
PO BOX 1359 / SOUTHOLD, NY 11971-0965

FAX

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
July 16 2001		Hobbs 1635	Annual SLT opscheck OK by 91-207 (d)-4
Battery Aug 2002			New GAS CAP SEALS installed to C/W SBM20-229-
			Reversed Main Tires on wheels.
			Replaced Right Brake disc and Brake linings — Replaced Right Main Landing Gear control tube 560244-501 —
			Shined Nose steering Horn as needed
			Hydro Test C/W on O & Bottle —
			Serviced AC Battery and Battery Box
			Lubed Flight controls and Landing Gear — Greased wheel Bearings —
			Cleaned Fuel Screen — Check All Lights to be OK —
			I hereby certify that this aircraft has been thoroughly inspected as per existing (engine)
			F.A.R.'s in accordance with a (annual) inspection and found to be in an airworthy condition. Tach Time <u>1635</u> Hrs. AC Total Time <u>2909.8</u> Hrs.
			T.O.B.O.H. <u>775.5</u> Hrs. Engine Total Time <u>2334.5</u> Hrs.
			Date of Prep O.H. <u>6 MAY 94</u> Time O.H. <u>1036.3</u> Hrs.
			Next annual inspection due <u>July 2002</u>
			July 2001 [Redacted Signature] [Redacted Signature]
			Signature for [Redacted Signature] [Redacted Signature]
			WILLMAR AIR SERVICE INC. WILLMAR MINN

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1-21-02		HOBBS 1659.8	Removed Old AND Installed new Dry Vacuum Pump AA216CW AND gasket, Installed new Central Air Filter AND Vacuum Relief Filter.
Airborne Air Filter Change Reminder Changed at: 1659.8 Hrs. Next Change: _____ Hrs. 1-21-02 Date			 [Redacted Signature]
8/22/02	2978.3	1703.5	Complied with Annual Inspection in accordance with FAR 43 appendix D, Mooney Service Manual, and Race City Aviation checklist. Removed all panels and inspected all control rods, rodends, bellcranks, chains, wiring, & hoses. Jacked aircraft, performed gear retraction test, 5 cycles, 1 emergency cycle. Greased landing gear & wheel bearings. Replaced alternator brushes on belt driven alt pln E\$4118. Replaced RH gear door spring pln 110003-007. Cleaned and repaired propeller de-ice block - ops & good. Removed & replaced LH & RH inboard fuel drains pln F391-53\$. Removed & replaced ELT battery pln BP-1020. Performed ELT Annual inspection in accordance with FAR 91.207 (d) functional check good. ELT battery next due replacement Aug 2004. Scott oxygen bottle Replaced with new bottle pln . Oxygen bottle Valve overhauled - see tag. Rotated LH & RH main tires to extend wear life. Fabricated bracket for
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8/22/02	2978.3	1703.5	glare shield & reformed glare shield. Reglued strobe switch cover. Replaced 2 vacuum hoses for artificial horizon. Replaced LH fuel sight gauge with customer supplied part. Replaced vacuum relief filter pln B3-5-1. Replaced central air filter pln D9-18-1 & Instrument filter 1J4-6. Replaced cowling fasteners with new 2753-45 stainless fasteners. Checked all A.D.'s thru 8/22/02. Complied with A.D. 84-26-2 by inspection of Induction air filter next due replacement tach: 1859.0 or on condition. Complied with A.D. 85-24-03/MOONEY S.B. 220-229 by inspection of fuel tank filler caps. Checked compliance of A.D. 2002-13-4 TCM/Slick Magneto - <u>Does Not</u> apply by magneto serial numbers. I certify that this aircraft has been inspected in accordance with an ANNUAL inspection and has been found airworthy this date. [REDACTED] AEP [REDACTED]
9/20/02	2980.5	1705.7	Removed old oxygen cylinder due to service life expiration. Installed Overhauled Regulator and new cylinder in accordance with Mooney Maint Manual. Leak check ok, ops check ok. Cylinder installed full 1850 psi. [REDACTED] AEP [REDACTED] Cylinder Hydrotested September 2002. [REDACTED] AEP [REDACTED]
4/2/03		1714.1	Removed + Replaced LH Tire. Packed Bearings. Leak check ok @ 42 psi. [REDACTED] AEP [REDACTED]
5/9/03		1714.1	Replaced RH main Tire. 600x6 ply Condar Installed. [REDACTED] AEP [REDACTED]
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			TOTAL brought forward from previous page
			9/24/03 N4387W Mooney M20K sn 25-1125 Hobbs 1733.10 TT 3007.9
			Performed Annual Inspection in accordance with Mooney M20K service manual. Lubed guide blocks & rod ends. Repacked wheel bearings. Serviced battery & brake reservoir. Performed gear retraction and emergency extension tests. Installed new gear horn SC628P and resoldered diode to circuit. Replaced nose tire. Replaced brake calipers, repaired rt brake line, and bled system. Replaced nose gear shock discs and hardware. Replaced Lt and Rt brake linings. Shimmed steering horn and installed new bolt and bushing. Checked gear preload. Replaced oil gauge with new 640281-183 gauge. Installed new U channel on LT and RT horizontal stab. Removed debris in aft tail and treated with Corrosion-X. Lubed speed brakes and repositioned right speed brake drain line, resealed LT and RT speed brake drain lines. Replaced cowl flap rod end and ball joint assemblies. Resealed left tank #3 fuel panel. Resealed screw holes in Rt.OB Aux Tank fuel panel. Drilled and replaced rivets for retaining ring in Lt Aileron bellcrank access panel. Replaced OAT grommet. Replaced belly brake line grommet. Secured Rt flap rod end. Replaced Tail Nav grommet. Reformed pilot and copilot seats. Reset elevator stops to 20 down and 21 up both left and right. Adjusted flap to 31 down 11 takeoff and -1 up. Reset Lt aileron neutral rigging. Replaced vac relief filter. FAR 91.207d .ELT Inspection passed. Battery Aug 04. CW AD 85-24-03 by replacing fuel cap orings due @ 1833.10. I certify that this Aircraft has been inspected in accordance with an Annual inspection and is determined to be in airworthy condition.
			James Trudeau IA for Mod Works, Inc. Punta Gorda, FL.
10/27/04	2457.6	1759.1	PERFORMED ANNUAL INSPECTION IAW THE MOONEY M20K SERVICE MANUAL. C/W NORMAL AND EMERGENCY GEAR SWINGS. ALL GEAR OP'S ✓'S ARE GOOD. REMOVED ALL WHEELS CLEANED, INSPECTED AND CHECKED TIRE PRESSURES. CLEANED AND REPACKED WHEEL BEARINGS. INSPECTED, CLEANED AND LUBRICATED ALL FLIGHT CONTROL RODS AND ROD ENDS. REPLACED TWO RIVETS ON THE RH INBOARD UPPER FLAP SHWN. REMOVED AND REPLACED NUMEROUS RIVETS ON THE LOWER ^{AC} DB OUTBOARD WING NEXT TO THE ^{CONT} →
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10/27/04	2459.6	1759.1	PITOT TUBE AREA. DRAINED THE RH WING FUEL TANK FOR REPAIR OF FUEL LEAK. CLEANED SUSPECTED AREA INSIDE TANK. RESEALED USING TYPE MC B-2 SEALANT. FILLED TANK WITH FUEL, THE LEAK ✓ IS GOOD. C/W AD 85-24-3 BY INSPECTION OF WING FILLER CAPS. INSTALLED A NEW GLT. OP'S ✓'S ARE GOOD IAW FAR 91.207(d). I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IAW WITH AN ANNUAL INSPECTION AND IS FOUND TO BE IN AIRWORTHY CONDITION THIS DATE, 10/27/04.
		0.0	[REDACTED] A+P/FA [REDACTED]
10/30/04	2459.6	1759.1	INSTALLED NEW HOBBS METER [REDACTED]
11 APRIL/05	2495.5	35.9	REMOVED RIGHT INBOARD TOP FUEL ACCESS PANEL TO REPAIR FUEL LEAK AT INBOARD FORWARD SCREW. REMOVED OLD PRC & RESEALED WITH NEW PRC. REFUELED. A/C RETURNED TO SERVICE.
			[REDACTED] A+P [REDACTED]
8/30/05		88.6	REMOVED RIGHT MAGNETO SN 03060677 AND REPLACED WITH OVERHAULED MAGNETO SN 91040010 REPLACED ALL MAGNETO PRESSURE HOSES WITH NEW TIMED MAGNETO & TEST RAN ENGINE. ENGINE DETERMINED TO BE IN AIRWORTHY CONDITION.
			[REDACTED] A+P [REDACTED]

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17 DEC 06		Hobbs 180.6	REPACKED WHEEL BEARINGS, INSPECTED + LUBED ALL FLIGHT CONTROLS + FLAPS, LUBED LANDING GEAR, CHECKED EMERGENCY EXTENSION AND BREAK OVER TORQUE. SERVICED BATTERY. TESTED ELT IAW FAR 91.207 (d) C/W AD 85-24-3 BY INSPECTION OF WING FUEL CAPS INSPECTED AIRCRAFT IAW THE MOONEY MAINTENANCE MANUAL ANNUAL INSPECTION CHECKLIST I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION THIS DATE, 12-17-06
			[REDACTED] A/P/IA [REDACTED]

Twin Lakes Avionics

Date: 02-16-07 Model: Mooney M20K S/N: 25-1125 N# 4387W W/O# 6642 Hobbs: 181.3

Removed: ISOCOM intercom, King KR 87 ADF system complete, KY 196 Com, KNS 80 Nav, KMA 24 audio panel, KLN 88 Loran, KA 84 antenna, & C1 121 antenna. Replaced UMA 2 1/4 suction gage with new UMA 3 1/8 suction gage. Replaced 2 1/4 VSI PN. 352201169 with New 3 1/8 VSI PN 7030-C27.

Installed:

- PS Engineering PMA8000B audio panel/intercom/marker beacon receiver PN: 430-6100-800-002 in radio stack space provided by manufacturer using existing Marker Beacon antenna.
- Owner supplied Garmin GNS-480 GPS/Com/VOR/LOC/Glide slope transceiver P/N 010-00182-11, in instrument panel radio rack using existing Nav and Comm antennas. Interface to the PMA8000B, KCS 55a HSI, GA 55, GDL-69 existing Nav & Com antennas, 3000U altitude serializer encoder.
- Owner supplied Garmin AT 575 GPS antenna, on top of A/C cabin, interconnected to the 480.
- Garmin GDL 69 XM Satellite weather receiver PN. 011-00986-00 and interface to the MX 20, 3000U and GA 55.
- Garmin GA 55 XM satellite antenna, P/N. 010-10600-01 on top of A/C cabin, interconnected to the GDL 69.
- Owner supplied Garmin MX 20 multifunction display P/N 013-00110-11 in radio stack provided by A/C manufacturer, interfaced to A GDL 69, 3000U, and GNS 480.
- ICARUS 3000U altitude serializer interconnected to the MX 20 and existing encoding altimeter.
- LC-2 internal battery powered clock.
- DAC GDC 31 autopilot GPS roll steering computer and annunciator.

The GNS 480 installation is I/A/W STC# SA01229SE IFR en-route and non-precision & precision approach.
The MX 20 was installed using STC# SA02154AK, this aircraft is included in the Approved Model List for this STC.
The GDL 69 was installed using STC# SA01487SE, this aircraft is included in the Approved Model List for this STC.
Refer to Garmin I/C/A PN. 560-1048-00 Rev. A for the MX 20, A copy has been placed in the aircraft logs.
Refer to Garmin I/C/A PN. 190-00355-00 Rev. A for the GDL 69, A copy has been placed in the aircraft logs.
Refer to Garmin I/C/A PN. 560-0986-01 rev. B for the GNS 480, A copy has been placed in the aircraft logs.
Reference 337 Dated 02-16-2007

New EW: 2122.5 New CG: 44.8

The aircraft, airframe, appliance identified above was repaired / inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair are on file at this repair station

Twin Lakes Avionics, CRS: JB4R278M Inspected [REDACTED]

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GNS 480 SN 25700112

MX 20 SN 26000192

GPS Antenna SN 38646

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2 FEB 09	324.9		JACKED AIRCRAFT & REPACKED WHEEL BEARINGS LUBED LANDING GEAR & CHECKED GEAR & DOOR RIGGING. PERFORMED MANUAL EXTENSION. LUBED ALL FLIGHT CONTROLS. SERVICED BATTERY. TESTED ELT IAW FAR 91.207(d) CW AD 85-24-3 BY INSPECTION OF WING FUEL CAPS. I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION - [REDACTED] A+P/IA [REDACTED]
2 FEB 09	324.9		REMOVED LEFT & RIGHT BRAKE MASTER CYLINDERS AND CLEANED AND REPLACED ALL "O" RINGS. REINSTALLED AND SERVICED WITH FRESH HYD FLUID. [REDACTED] A+P [REDACTED]
16 MAR 2010	417.2		JACKED AIRCRAFT & REPACKED WHEEL BEARINGS, GREASED LANDING GEAR & CHECKED GEAR & DOOR RIGGING. PERFORMED MANUAL GEAR EXTENSION. LUBED ALL FLIGHT CONTROLS. SERVICED BATTERY. TESTED ELT IAW FAR 91.207(d), C.W. AD 85-24-3 BY INSPECTION OF WING FUEL CAPS. I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. [REDACTED] A+P/IA [REDACTED]
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AIRFRAME

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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22 MARCH 11	478.3		JACKED AIRCRAFT, REPACKED WHEEL BEARINGS, GREASED LANDING GEAR & LUBED ALL FLIGHT CONTROLS, CHECKED LANDING GEAR RUBBING AND MANUAL GEAR EXTENSION. SERVICED BATTERY AND CLEANED & PAINTED BATTERY BOX. INSTALLED NEW BATTERIES IN ELT. NEXT DUE MAR 2017. ELT TESTED IAW FAR 91.207(d) TESTED GOOD. CWAD 85-24-3 BY INSPECTION OF FUEL CAPS. REPAIRED STALL WARNING HORN. RELINED BOTH BRAKES WITH NEW PADS. SERVICED PROP & DRESSED BLADES. INSTALLED NEW AIR CLEANER. I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED T.A.W. AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. [REDACTED] A/P [REDACTED]
27 JULY 2011	519.1		Replaced 216CW vacuum pump with overhauled unit from Holly Aero. Maintenance release form can be found in powerplant logbook under corresponding date. ops check satisfactory. [REDACTED] A/P [REDACTED]
7 APRIL 2012	552.6		REMOVED OXYGEN TANK. HYDROSTATIC CHECK PERFORMED AND REINSTALLED. [REDACTED] A/P [REDACTED]

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2012			TOTAL brought forward from previous page
7 APRIL 2012	552.6		JACKED AIRCRAFT. INSTALLED NEW MAIN AND NOSE TIRES. REPACKED WHEEL BEARINGS. GREASED LANDING GEAR. CHECKED GEAR RIGGING & OPERATION. PERFORMED MANUAL GEAR EXTENSION. SERVICED BATTERY. ELT TESTED IAW FAR 91.207(d) & TESTED GOOD. CLEANED & INSPECTED AIR CLEANER CW AD 85-24-3 BY INSPECTION OF FUEL CRPS ALL AD'S VERIFIED TO DATE. I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED I.A.W AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. [REDACTED] ATR/TA [REDACTED]
14 JUNE 2012	554.1		INSPECTED TAIL HINGE FITTING AND HUCK FASTENERS IAW AD 2012-05-09 AND MOONEY SB # M20-313A. ALL PARTS FOUND TO BE IN CORRECT LOCATION AND ALL HUCK FASTENERS ARE SECURE. AD 2012-05-09 COMPLIED WITH BY VISUAL INSPECTIONS. [REDACTED] AIP [REDACTED]
18 FEB 2013	586.0		REPAIRED FUEL LEAK LOCATED AT THE OUTBOARD REAR CORNER OF THE RIGHT MAIN TANK & THE SAME JUNCTION OF THE RIGHT AUX TANK. LEAK REPAIRED WITH PRC PR422B2 IAW THE MOONEY INSTRUCTIONS IN THE MOONEY SERVICE MANUAL. AIRCRAFT REFUELED WITH NO LEAKAGE. [REDACTED] AIP [REDACTED]
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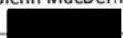
DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
2013			
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10 MAY 2013	602.7		JACKED AIRCRAFT + REPACKED ALL WHEEL BEARINGS. GREASED LANDING GEAR + CHECKED GEAR RIGGING. PERFORMED MANUAL GEAR EXTENSION. LUBED ALL FLIGHT CONTROLS AIRCRAFT INSPECTED IAW MOONEY ANNUAL INSPECTION GUIDE. ELT TESTED SATISFACTORY IAW FAR 91.201(d) ALL AD'S VERIFIED COMPLIED WITH TO DATE. I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. [REDACTED] A/P [REDACTED] IA
12 MAY 2013	602.7		REPAIRED COWL FASTENERS AT FRONT JOINT OF TOP + LOWER COWL BY ADDITION OF TWO NUT PLATES AND TRIMMING LOWER COWL FOR EASE OF FIT WITH 3 BLADE PROP. [REDACTED] A/P [REDACTED] IA
12 MAY 2013	602.7		INSTALLED NEW LANDING LIGHT LENSE PN W-2524 GREAT LAKES AERO. [REDACTED] A/P [REDACTED] IA
12 APRIL 2014	624.1		INSTALLED NEW CONCORD AG-35 A/C RG-24-11 BATTERY SN 40623838 [REDACTED] A/P [REDACTED] IA

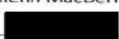
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Date: 15FEB2020 Mooney M20R HOBBS: 723.2 AFTT: 3768.3 25-1125	Accomplished Annual inspection within the scope and detail of FAR 43(d). Opened all access panels. Cleaned, inspected, and lubricated all push pull tubes and rod ends. Functionally checked ELT IAW FAR 91.207d. ELT battery dated NOV2023. Replaced vacuum filter with RA2J4-6. Replaced induction filter new Donaldson part #EDO04011. Re-sealed both GPS antennas with 3M AC-251. Adjusted stall vane switch for proper contact. Reinstalled vane assembly and found horn to be shorted out. Replaced with new Sonalert horn #SC628 ops check good. Jacked AC, Replaced nose wheel bearings and races with #08125-20629 bearings and #08231-20629 races. Replaced all 4 main bearing and races with #13889-20629 bearings and #13836-20629 races. Serviced bearings with Mobil SHC100. Relined brakes with 8 new 066-00105 pads. Bled both left and right brakes and serviced reservoir with Aeroshell 4. Accomplished 6 fault free gear extensions and retractions, both normal and emergency. Inspected landing gear, serviced same. Replaced gear warning horn with new Sonalert SC628PR. Ops check good. Checked all ADs through ATP as of 14FEB2020. I certify this airframe has been inspected IAW an Annual inspection and was found to be in airworthy condition at this time. ELT exp date NOV2023 FAR91.411 and 91.413 FEB2020 Annual due by FEB2021
N4378W	Glenn MacDermod 

Date: 19FEB2020 M20R HOBBS: 723.9 AFTT: 3769.0 25-1125	Owner/pilot accomplished .7 hr flight to verify stall horn/lift detector rigging. Pilot reports stall horn operational check was good IAW Mooney M20K published data.
N4378W	Glenn MacDermod 

03MAY2021 Mooney M20R HOBBS: 726.8 AFTT: 3771.9 25-1125	Accomplished Annual inspection within the scope and detail of FAR 43(d). Opened all access panels. Cleaned, inspected, and lubricated all push pull tubes and rod ends. Functionally checked ELT IAW FAR 91.207d. ELT battery dated NOV2023. Jacked AC, Inspected landing gear, tires and brakes, serviced same. Accomplished 6 fault free gear extensions and retractions, both normal and emergency. Removed and replaced taxi light with serviceable LED light pn: 01-0771833-25. Checked all ADs through ATP as of 28APR2021. I certify this airframe has been inspected IAW an Annual inspection and was found to be in airworthy condition at this time. ELT exp date NOV2023 FAR91.411 and 91.413 FEB2022 Annual due by MAY2022
N4387W	Glenn MacDermod 

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N4387W

Hobbs: 736.4 hrs

- Removed sealant from L/H main fuel tank forward inboard seams. Cleaned & resealed tank and forward upper access panel IAW Mooney SB M20-230/AD 85-24-03
- Removed sealant from L/H main fuel tank outboard end. Cleaned & resealed tank and upper access panel IAW Mooney SB M20-230/AD 85-24-03

Richard M. Dorr AP [REDACTED]

8 Mar 2024

Date: 03/19/2024 Hours: HOBBS: 736.7 JPI TACH: 0142.9 JPI HOBBS: 143.0

Tail#: N4387W

Make: Mooney

Model: M20K

S/N: 25-1125

Removed RH wheel to examine improper brake caliper & wheel installation. Removed RH damaged brake disk, installed new APS black steel P/N APS 164-02000.

Removed RH damaged brake backing plate, installed new Cleveland plate P/N 064-01500. Found wheel spacer missing, installed serviceable wheel spacer P/N 530005-000. Repacked RH wheel bearings with SCH-100 grease. Torqued brake caliper bolts & safety wired. Performed ground & taxi check of brake system. ops check normal at this time. IAW M20K series MM & found safe to return to service at this date. --- END

Name: Wesley Zimmer

Cert: AP [REDACTED]

Co: AGL Aviation Services, LLP

Sign: [REDACTED]

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