

8. Drain fuel sumps and fuel selector valve (Right &

Left tanks).

## MOONEY AIRPLANE COMPANY, INC. 100 Hour-Annual Inspection Guide

Date		A 41.1			
Owner's Name	Namial NI:	_ Address	A/C Tach Time		
Reg. NoA/C S	Serial No	O I NI .	A/C lach lime		
Engine Model No.		_ Serial No			
Propeller Model No. Hour		_ Serial No	Moight Hood		
Is Approved Flight or Owners manual in ai	roroff?		Yes No Current & in proper condition .	Voc	No
			Yes No Current & in proper condition .		
Is Registration Certificate in aircraft?			Yes No Current & in proper condition .	Yes	No.
4. Is Airworthiness Certificate in aircraft?			Yes No Current & in proper condition .	Yes	No
5. Is Weight & Balance Record in aircraft? .			Yes No Current & in proper condition .	Yes	No
6. Is all applicable factory service information	complied wit	h?	Yes No		
7. Are all applicable FAA Airworthiness Direct	tives complie	d with?	Yes No		
NOTE:					
	model's Serv		ance Manual for airframe, engine and propeller inspecti	ons.	
Mechanic Signature		Inspector Sig	·		
ENGINE SECTION:			FUEL SYSTEM - M20E, F, J, K, M, R, S, TN:	MECH	INSP
(Refer to engine manufacturers manual & Mooney Service & Maintenance Manual for appropriate mod		INSP	Inspect fuel injection system, clean screens & injection system, clean screens & injection system.		ì
Remove and clean engine cowling and baffling; in-	,	<del>                                     </del>	tor nozzles (refer to Textron Lycoming O/H Manual, Section 8 or TCM Service Manual).		ì
spect for cracks, wash engine.			Check power boost system for proper door opera-		
2. Perform a HOT engine differential compression			tion & seal for leaks (M20E, F, J).		ì
check. Cylinder Readings:			NOTE: Power boost system deleted on 1990 & ON.		ì
1 2 3 4 5 6			3. Remove, clean & inspect dry-air filter. Replace pa-		
LUBRICATING SYSTEM:			per induction filter @ 500 hours. Recharge K & N filter @ 100 hours and replace when worn or after 25 clean-		ì
Drain sump and change oil filter (if installed).			ings.		ì
Remove pressure and suction screens; check for		<del>                                     </del>	Inspect air induction system & alternate air valve.	╁──┼	
metal particles.			Inspect all induction system a alternate all valve.      Inspect fuel selector valve for operation & proper	<del>                                     </del>	
3. Clean and inspect screens. Reinstall and safety w	ire		indication. Verify positive valve selection while rotating		ì
screens.			fuel selector valve through selection range. Tighten/		ì
4. Inspect condition of oil cooler.			Loctite set-screw if required.		
5. Service engine with recommended lubricating oil,			6. Operate boost pump; check pressure & all lines for		
(Refer to Textron Lycoming Specification 301E & Service Instruction1014 or TCM Service Manual).	<b>'-</b>		leaks.	Ļ	
6. Check engine for oil leaks (note & correct).			7. Drain Right & Left tank fuel sumps; selector fuel		ì
IGNITION SYSTEM:			valve or gascolator.  8. Check unmetered fuel pressure per Mooney Service		
			& Maintenance Manual (M20K, M20R, M20S, M20TN).		ì
<ol> <li>Inspect spark plugs; replace or clean &amp; re-gap.</li> <li>Inspect ignition harness for general condition, free</li> </ol>			EXHAUST SYSTEM:	1	
from fraying or chafing.			Remove heater jacket & inspect exhaust system for	+	
Inspect magnetos & points; check magneto timing	:		leaks & cracks; remove exhaust cavities, inspect area.		ì
check distributor block for erosion or cracks. Overha			2. Inspect clamps for tightness at turbocharger(s)	1	
Bendix magnetos each 500 hours/4 years per TCM	SB		(M20K, M20M, M20TN).		
643B.			3. Inspect firewall for proper sealing & freedom from		
ELECTRICAL SYSTEM:			cracks.		
Inspect battery(ies) for security, battery box (or area) for corrosion & vent for obstruction.			<ol> <li>Inspect tubular engine mount for cracks; bolts &amp; rubber mounts for security.</li> </ol>		ì
Inspect generator/alternator(s) and accessories.		1	GENERAL INSPECTION:	<del>                                     </del>	
Inspect generator/attender(s) and decessories.     Inspect electrical components & wiring.			Lubricate engine controls & inspect for security, full	<del>                                     </del>	
Inspect electrical components & wiring.      Inspect starter & starter drive; lubricate starter drive;	10		travel & free movement. Inspect for secure throttle,		ì
•	/e.		mixture & prop control arms and respective compo-		ì
5. For Garmin G1000 equipped A/C, refer to G1000 documentation for continued airworthiness instruc-			nents.		
tions.			2. Lubricate cowl flaps & inspect for proper opening &		ì
INDUCTION SYSTEM:			operation. NOTE: M20C & G, 1968 & ON, cowl flaps are fixed. M20R, M20S & M20TN have no cowl flaps.		ì
(Challenger Aviation Filter Equipped Aircraft)			3. Remove propeller spinner & inspect for cracks &	1	
Recharge filter every 100 hours. Inspect filter hours for debate and appear and the second filter for the second filter.	S-		general condition.		ì
ing for debris and component condition (hoses, clamps, etc.). Check opening pressure/operation of			4. Inspect propeller hub for grease leakage; check	1	
ALT air door.			hub bolts & mounting bolts for proper torque; inspect		ì
FUEL SYSTEM - M20B, C, D, G:			blades for cracks, nicks, and dents, lubricate as needed (refer to appropriate manufacturer's handbooks).		ì
Inspect & drain carburetor, clean screens and che	ck		Reinstall spinner; check for correct interference fit		
fuel flow.			with prop. Wrap hub with Teflon tape as required for fit		ì
2. Inspect carburetor heat system for leaks & proper			(M20J, K, L). Shim interference fit between hub and		ì
operation.			bulkhead (M20M, R, S, TN).		
3. Remove, clean, inspect and re-oil air filter.			AIRFRAME SECTION:		
4. Inspect carburetor airbox & induction system for			(Refer to Mooney Service & Maintenance Manual)	Ļ	
condition.			Inspect exterior & interior of aircraft for general condition, collision damage, loose rivets, dents & corrodition, collision damage, loose rivets, dents & corrodition.		i
<ol><li>Inspect fuel selector valve for operation &amp; proper pointer indication. Verify positive valve selection while</li></ol>	e		sion.		ı
rotating fuel selector valve through selection range.	-		Inspect tubular structure lower longerons for corro-	<del>                                     </del>	
Tighten/Loctite set-screw if required.			sion (Reference SB M20-208[*]) (* latest revision).		i
6. Operate boost pump, check pressure and all lines	Ī		3. Inspect wings & empennage for general condition,		
for leaks.			collision damage, loose rivets, dents & corrosion.		
7. Clean electric fuel pump screen (1963 & previous			4. Inspect flight control surfaces for security of attachment, proper rigging, free movement, collision dom		
models).	I	ı I	ment, proper rigging, free movement, collision dam-		

age, loose rivets, dents and corrosion.



## MOONEY AIRPLANE COMPANY, INC. 100 Hour-Annual Inspection Guide

AIRFRAME SECTION (con't.):  Lubricate flight control system guide blocks, hinge points, rod end bearings & bell cranks.  6. Inspect all wing, fuselage & empennage drain holes for obstructions.  7. Inspect empennage trim system for proper operation & rigging.  8. Inspect downspring end loops, cable & pulley for wear and corrosion. Comply with Bendix/King Install Bulletin 434 (Inspect & Lube trim carrier bearing) for AC with KAP/KFC 100 series autopilots.  9. Inspect flag system for proper operation & rigging; lubrication accordance with Mooney Service & Maintenance Manual.  10. Inspect flight instruments, filters & vacuum system for proper operation, marking, and condition; clean vacuum air filter.  11. Inspect cabin lights, circuit breakers & electrical components for proper operation.  12. Check operation of stall warning system.  13. Inspect DC, system components for security, leaks & proper operation; service seals for deterioration, all other auto-plot components for security & proper operation. AC equipped with Bendix/King Autopilots, comply with Honeywell Service Memo 292.  14. Inspect vacuum step for security & proper operation; fixed step for security & damage.  15. Inspect ming interior in fuel tank area for fuel leaks, fuel tank vents for obstructions & fuel filler caps for security & proper operation; seed step for security & damage.  16. Inspect cabin & baggage doors for condition, proper operation & sealing.  17. Inspect invidshield & windows for cracks, crazing, scratches and distortion.  18. Inspect easts, seat latch pins, seat belts & shoulder harnesses for security, proper operation and condition. If AMSAFE Restriath equipped, diagnostic test per AAIR Supplemental Maintenance Manual every 1, 1,000 flight-hours or annually (whichever comes first).  19. Inspect cabin for proper sealing.  20. Inspect all radio equipment for proper installation & perior indication & compensation.  21. Inspect Lat a required by FAR 91.207d(1-4).  LANDING GEAR OPERATIONAL CHECK:  11. Basie aircraft on jacks.  22. Ins	•		
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for obstructions.  7. Inspect empenage trim system for proper operation & rigging.  8. Inspect downspring end loops, cable & pulley for wear and corrosion. Comply with Bendk/King Install Bulletin 343 (inspect & lube trim carrier bearing) for A/C with KAP/KFC 100 series autopilots.  9. Inspect flap system for proper operation & rigging; lubrication accordance with Mooney Service & Maintenance Manuel.  10. Inspect flight instruments, filters & vacuum system for proper operation, marking, and condition; clean vacuum air filter.  11. Inspect cabin lights, circuit breakers & electrical components for proper operation.  12. Check operation of stall warning system.  13. Inspect P.C. system components for security, leaks & proper operation, servo seals for deterioration, all other auto-pilot components for security & proper operation. A/C equipped with Bendk/King Autopilots, comply with Honeywell Service Memo 292.  14. Inspect vacuum step for security & proper operation; fixed step for security & damage.  15. Inspect migniterior in fuel tank area for fuel leaks, fuel tank vents for obstructions & fuel filler caps for security & proper operation.  16. Inspect cabin & baggage doors for condition, proper operation & sealing.  17. Inspect windshield & windows for cracks, crazing, scratches and distortion.  18. Inspect seals, seat latch pins, seat belts & shoulder harnesses for security, proper operation and condition. If AMSAFE Restraint equipped, diagnostic test per AAIR Supplemental Maintenance Manuel every 1.000 flight-hours or annually (whichever comes first).  19. Inspect compass & compass deviation card for proper indication & compensation.  (Refer to Mooney Service Bulletin M20-150A)  20. Inspect all radio equipment for proper installation & operation.  21. Inspect base arrosance of the proper sealing.  22. Inspect to capin for proper sealing.  23. Inspect taxes, hydraulic brake cylinders & hydraulic system for leaks and general condition: Service reservoir with ML-H-5606 (RED) fluid.  3. Remove wheels, inspect, rep			
7. Inspect empennage trim system for proper operation & rigging.  8. Inspect downspring end loops, cable & pulley for wear and corrosion. Comply with Bendix/King Install Bulletin 43d (inspect & lube trim carrier bearing) for A/C with KAP/KFC 100 series autopilots.  9. Inspect flaps system for proper operation & rigging; lubrication accordance with Mooney Service & Maintenance Manual.  10. Inspect flight instruments, filters & vacuum system for proper operation, marking, and condition; clean vacuum air filter.  11. Inspect cabin lights, circuit breakers & electrical components for proper operation.  12. Check operation of stall warning system.  13. Inspect P.C. system components for security, leaks & proper operation; servo seals for deterioration, all other auto-pilot components for security & proper operation, A/C equipped with Bendix/King Autopilots, comply with Honeywell Service Memo 292.  14. Inspect vacuum step for security & proper operation, fixed step for security & damage.  15. Inspect wing interior in fuel tank area for fuel leaks, fuel tank vents for obstructions & fuel filler caps for security & mig interior in fuel tank area for fuel leaks, fuel tank vents for obstructions & fuel filler caps for security & proper operation.  16. Inspect cabin & baggage doors for condition, proper operation & sealing.  17. Inspect windshield & windows for cracks, crazing, scratches and distortion.  18. Inspect seats, seat latch pins, seat belts & shoulder harnesses for security, proper operation and condition. If AMSAFE Restraint equipped, diagnostic test per AAIR Supplemental Maintenance Manual every 1,000 flight-hours or annually (whichever comes first).  19. Inspect cabin for proper sealing.  22. Inspect tall radio equipment for proper installation & operation.  21. Inspect tall radio equipment for proper installation & operation.  22. Inspect tall radio equipment for proper installation & operation.  23. Inspect tall radio equipment for proper installation & operation.  24. Inspect brakes, hydraulic brake cylind	6. Inspect all wing, fuselage & empennage drain holes		
so in singoling.  8. Inspect downspring end loops, cable & pulley for wear and corrosion. Comply with Bendix/King Install Bulletin 943 (inspect & lube trim carrier bearing) for A/C with KAP/KFC 100 series autopilots.  9. Inspect flap system for proper operation & rigging; lubrication accordance with Mooney Service & Maintenance Manual.  10. Inspect flight instruments, filters & vacuum system for proper operation, marking, and condition; clean vacuum air filter.  11. Inspect cabin lights, circuit breakers & electrical components for proper operation.  12. Check operation of stall warning system.  13. Inspect PC, system components for security, leaks & proper operation; servo seals for deterioration, all other auto-plot components for security & proper operation, A/C equipped with Bendix/King Autopilots, comply with Honeywell Service Memo 292.  14. Inspect vacuum step for security & proper operation, A/C equipped with Bendix/King Autopilots, comply with Honeywell Service Memo 292.  15. Inspect vacuum step for security & proper operation; fixed step for security & damage.  16. Inspect vacuum step for security & proper operation; fixed step for security & damage.  17. Inspect wing interior in fuel tank area for fuel leaks, fuel tank vents for obstructions & fuel filler caps for security & proper operation.  18. Inspect cabin & baggage doors for condition, proper operation & sealing.  17. Inspect datin & baggage doors for condition, proper operation & sealing.  18. Inspect seats, seat latch pins, seat belts & shoulder harnesses for security, proper operation and condition, If AMSAFE Restraint equipped, diagnostic test per AAIR supplemental Maintenance Manual every 1,000 flight-hours or annually (whichever comes first).  19. Inspect cabin Robert Service Bulletin M2O-150A)  20. Inspect all radio equipment for proper installation & operation.  17. Inspect all radio equipment for proper installation & operation.  21. Inspect to Amount Service sealing.  22. Inspect Drakes, hydraulic brake cylinders & hydraulic system for			
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10. Inspect flight instruments, filters & vacuum system for proper operation, marking, and condition; clean vacuum air filter.  11. Inspect cabin lights, circuit breakers & electrical components for proper operation.  12. Check operation of stall warning system.  13. Inspect P.C. system components for security, leaks & proper operation; servo seals for deterioration, all other auto-pilot components for security & proper operation. A/C equipped with Bendix/King Autopilots, comply with Honeywell Service Memo 292.  14. Inspect vacuum step for security & proper operation, A/C equipped with Bendix/King Autopilots, comply with Honeywell Service Memo 292.  15. Inspect wing interior in fuel tank area for fuel leaks, fuel tank vents for obstructions & fuel filler caps for security & proper operation.  16. Inspect cabin & baggage doors for condition, proper operation as sealing.  17. Inspect windshield & windows for cracks, crazing, scratches and distortion.  18. Inspect seats, seat latch pins, seat belts & shoulder harnesses for security, proper operation and condition. If AMSAFE Restraint equipped, diagnostic test per AAIR Supplemental Maintenance Manual every 1,000 flight-hours or annually (whichever comes first).  19. Inspect compass & compass deviation card for proper indication & compensation.  (Refer to Mooney Service Bulletin M20-150A)  20. Inspect all radio equipment for proper installation & operation.  21. Inspect toxygen system for leaks, proper ON/OFF valve operation & filler for safety of operation. Perform hydrostatic test of oxygen bottle every 4 yrs & regulator overhaul every 6 yrs. Composite bottles expire @ 15 yrs.  23. Inspect ELT as required by FAR 91.207d(1-4).  LANDING GEAR OPERATIONAL CHECK:  1. Raise aircraft on jacks.  2. Inspect landing gear shock discs (main & nose gear) (Refer to MAC S & M manual).  MANUAL GEAR RETRACTION SYSTEM:  1. Raise aircraft on jacks.  2. Check operation & rigging (pre-loads).  3. Check varning system light & horn.  4. Check gear down lock preload (Mains & Nose).  5.			
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ELECTRIC GEAR RETRACTION SYSTEM:	MECH	INSP
Raise aircraft on jacks.		
2. Check operation & rigging.		
Check warning system lights, horn & visual indicator.		
Check air pressure safety switch or squat safety switch.		
5. Check main & nose gear down lock preload.		
Lubricate actuator gear box (Dukes & ITT actuators only)		
7. Check landing gear doors for proper closing/rigging.		
Check emergency landing gear extension system;		
extend gear using emergency gear extension system.  Do not attempt gear retraction using emergency sys-		
tem (Refer to MAC S & M manual).		
Inspect shock discs (main & nose gear) in accordance with Mooney Service & Maintenance Manual.		
FIXED GEAR:		
1. Inspect landing gear fairing (M20D only).		
Check air seals in wheel well areas.		
POST-INSPECTION OPERATIONAL CHECK: (Refer to Mooney Owner's Manual or POH)		
Check propeller governor operation with engine run- ning at 2000 RPM & pitch control at low pitch (High		
RPM): When propeller control is pulled out to high pitch		
(low RPM), engine speed should decrease at least 500		
RPM.		
Check ease of operation for all engine controls with engine running.		
Check generator/alternator output & indication.		
Check oil pressure indication.		
5. Check fuel pressure indication.		
6. Check fuel quantity indication.		
7. Check cylinder head temperature (CHT) indication.		
8. Check oil temperature indication.		
9. Check idle RPM, idle mixture & idle cut-off.		
Check propeller pitch through complete range.     Check operation of cabin & panel lights.		
12. Check Radios/Avionics operation.		
13. Check Auto Pilot operation.		
14. Check magneto drop and grounding circuits.		
15. Check operation of brakes.		
16. Check fuel selector valve for smooth operation.		
17. Check vacuum warning lights & instruments for		
proper operation.  18. Check flap position indicator (Take-Off & Full		
down).		
Check trim position indicator and smooth operation of Trim System.		
20. Flight check gear-up warning horn at: 12" manifold pressure (MP) (M20J prior to S/N		
24-3154); 14-16" MP (M20K [231, 252]) & with throttle		
1/4-3/8 inch from idle position M20J (after S/N		
24-1354), M20K (Encore), M20L, M20M, M20R, M20S, M20TN.		
21. Flight check aircraft flight control rigging.		
22. Flight check P.C. or other Autopilot systems for		
proper operation.		
23. Check cabin ventilation and heating system for carbon monoxide.		
24. Check EGT/TIT gauge and any other items of installed equipment.		
25. Check operation of remote ELT switch between top of hour and 5 min after the hour.		
26. Other checks (Specify as necessary):		

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