

**AA-5 SERIES
MAINTENANCE MANUAL**

TIME LIMITS - DESCRIPTION/OPERATION

1. General

The service guide (Figure 1) contains the manufacturers' recommended time limits for inspection, maintenance and overhaul of the airplane, its systems and units.

2. Service Life Limited Components

Recent changes in the Federal Aviation Regulations require that all new aircraft now being certified, for which application for a type certificate was made after September 14, 1969, have the critical wing structure components fatigue strength investigated and that, where applicable, these components be service life limited. Since the AA-5, AA-5A and AA-5B fall into this category, the following service life information is provided. The Model AA-5, AA-5A and AA-5B wing and associated structure have been shown capable of withstanding the repeated loads of variable magnitude expected in service. This was accomplished through a fatigue strength investigation, and as a result of this investigation, discrete service lives have been established for several wing structure components. Those components and their corresponding service lives are listed in Figure 2.

Service life limited parts must be retired from service in accordance with the specified service life hours listed in Figure 2.

All wing and fuselage structural components shall be subject to normal inspection, maintenance, repair and replacement procedures. In addition, to ensure maximum limited life, if corrosion is detected on wing or inboard spars, remove it as quickly as possible and protect the surface from further corrosion in accordance with AC43.13-1A, "Acceptable Methods, Techniques and Practices - Aircraft Inspection and Repair".

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SCHEDULED MAINTENANCE CHECKS - DESCRIPTION/OPERATION

1. General

The inspection procedures guideline included in this section may be used by the owner, inspector, or mechanic to ensure complete and comprehensive coverage of the inspection requirements. The format of the procedures can be reproduced for ready use by the personnel performing the inspection. The checklist includes the minimum requirements for the 100-hour or annual inspection.

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INSPECTION MAINTENANCE	Inspection Interval (Operating Hours)			NOTE
	50	100	1000	
AIRFRAME				
1. Clean aircraft.	X	X	X	i
2. Aircraft structure (especially the spar around the inboard and outboard wing lock shoulder bolts, gear attachments, and fuselage attach collars)		X	X	
3. Windows, windshield and canopy	X	X	X	
4. Seats, console, interior and seat belts	X	X	X	
5. Instrument panel, instruments and placards		X	X	
6. Baggage compartment and cargo tie downs		X	X	
7. Radio antennas		X	X	
8. Nose gear torque tube assembly		X	X	
9. Control T-column and bearings		X	X	
10. Forward empennage attachments	X	X	X	
LANDING GEAR				
1. Strut and upper and lower strut brackets, main gear		X	X	a b
2. Strut, torque tube assy, fork and boot assy, nose gear		X	X	
3. Nose and main wheel bearing lubrication				
4. Nose fork swivel lubrication		X	X	
5. Brake linings and discs		X	X	
6. Wheel fairings scraper adjustment		X	X	
7. Main and nose tire pressure	X	X	X	
CONTROL SYSTEMS				
1. Cables, turnbuckles, pulleys, guards and terminals		X	X	j
2. Rudder pedals and springs		X	X	
3. Flaps, flap actuator, flap actuator jack screw, flap push-pull rods, flap torque tubes, torque tube bearings, bearing supports and position indicator		X	X	
4. All control Stops		X	X	

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INSPECTION MAINTENANCE		Inspection Interval (Operating Hours)			NOTE
		50	100	1000	
CONTROL SYSTEMS (Continued)					
5.	Elevator trim wheel, indicator, indicator shaft and actuator shaft drive screw. Elevator trim tab free play (AA-5A and AA-5B only).		X	X	l
6.	Ailerons, aileron torque tubes, aileron balance weights, bearings and bearing brackets		X	X	
POWERPLANT					
1.	Oil Change	X	X	X	c
2.	Oil Screens and cooler	X	X	X	
3.	Replace oil filter if external filter is used	X	X	X	
4.	Spark plugs		X	X	
5.	Ignition harness	X	X	X	
6.	Magneto timing				k
7.	Exhaust system	X	X	X	
8.	Throttle, carburetor heat and mixture controls operation	X	X	X	
9.	Engine baffles	X	X	X	
10.	Air filter	X	X	X	
11.	Engine mount	X	X	X	d
12.	Oil breather vent	X	X	X	
13.	All lines, flex ducts and connections	X	X	X	
14.	Oil and fuel pressures	X	X	X	
15.	Propeller and spinner	X	X	X	
16.	Alternator belt	X	X	X	e
17.	Cylinders, crankcase, accessory section, front crankshaft seal	X	X	X	
18.	Engine overhaul				

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INSPECTION MAINTENANCE	Inspection Interval (Operating Hours)			NOTE
	50	100	1000	
FUEL SYSTEM				
1. Electric fuel pump filter	X	X	X	
2. Fuel cap gaskets	X	X	X	
3. Fuel overboard vents	X	X	X	
4. Fuel tanks, fuel sumps and drains (4)		X	X	
5. Fuel selector and placard		X	X	
6. Fuel gauges		X	X	
7. All hoses and lines	X	X	X	d
8. Fuel primer		X	X	
UTILITY SYSTEMS				
1. Master cylinder fluid level	X	X	X	
2. Parking brake operation		X	X	
3. All hoses, lines, and connections		X	X	
4. Pitot and static systems		X	X	
5. Pitot line drain		X	X	
6. Vacuum regulator and filter		X	X	f
7. Flexible ducts for heating system		X	X	
8. Cabin heat control operation		X	X	
9. Compass check			X	g
10. Vacuum pump			X	h
ELECTRICAL SYSTEM				
1. Battery fluid level	X	X	X	
2. Battery hydrometer check		X	X	
3. All connections		X	X	
4. All lights for operation	X	X	X	
5. All wiring harnesses and wires		X	X	

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INSPECTION MAINTENANCE	Inspection Interval (Operating Hours)			NOTE
	50	100	1000	
ELECTRICAL SYSTEM (Continued)				
6. Stall warning.	X	X	X	
7. Electric flap motor.		X	X	

NOTES:

- a. Remove nose gear strut from torque yoke and inspect for corrosion of the surfaces every 12 calendar months. Remove corrosion and paint surfaces with zinc chromate primer and reassemble wet. Seal strut to yoke connection with RTV-102 by Dow-Corning or equivalent.
- b. Clean and repack wheel bearings at first 100 hours. Inspect wheel bearing grease for contamination and solidification at each annual or 100 hour inspection. Do not exceed 500 wheel miles between repacking intervals.
- c. Maximum time between magneto timing checks 100 hours. Magneto replacement recommended after 900 hours of service.
- d. Recommended replacement of all flexible pressure lines at engine overhaul or every five years, whichever comes first.
- e. Maximum engine overhaul time 2000 hours.
- f. Replace gyros central air filter each 400 hours. Replace vacuum relief valve filter each 1000 hours. For operation in dusty climates, replace filters more frequently.
- g. Check accuracy of compass every 1000 hours or at each time that an item of equipment is installed or removed that could affect the accuracy of the unit.
- h. Recommended replacement of vacuum pump at 1000 hours.
- i. Remove the fuel tank access covers and inspect all internal surfaces and structure for corrosion, cracks, and bonding separation every 2000 hours or at any time the access covers are removed.
- j. Replace rudder springs every 1000 hours.
- k. Recommended replacement of 1975 and later Model AA-5 and AA-5A air filters at 100 hours, 12 calendar months, or when 50 percent covered with foreign material, whichever comes first. AA-5B foam type air filters at 300 hours, 12 calendar months, or when 50 percent covered with foreign material, whichever occurs first. AA-5B paper type air filters at one year, 500 hours or after 10 cleanings.
- l. Measure the elevator trim tab free play every 500 hours. Refer to 27-3-1.

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COMPONENT	AIRCRAFT MODEL	PART NUMBER	SERVICE LIFE (AIRFRAME HRS.)
Inboard Spar Assembly	AA-5 & 5A	5102310-501	12,000
	AA-5B	5102310-502	12,000
Shoulder Bolt	AA-5 & 5A	901044-1/-2	7,250
	AA-5B	901044-2	7,250
Wing Spar Assembly	AA-5 & 5A	*5201002-501	12,500
	AA-5A & 5B	*5201004-501	12,500
Wing Outboard Spar Assembly	AA-5 & 5A	*5201189-501	12,500
	AA-5B	*5201189-501	12,500

*Retiring of wing spars from service will generally require simultaneous removal of corresponding wing panel assemblies from service.

Service Life Limited Components
Figure 2

SCHEDULED MAINTENANCE CHECKS - MAINTENANCE PRACTICES

1. Annual or 100-hour Inspection Procedures

A. Perform Annual or 100-Hour Inspection

Complete the inspection by performing each of the procedures detailed on the checklist, Figure 201. Indicate completion by sign-off in the appropriate column.

B. In addition to the Servicing Guide and Annual or 100 Hour Inspection Procedure, the following steps should be adhered to when performing an inspection or overhaul:

- (1) Check any FAA Airworthiness Directive or Gulfstream American Service Bulletins/ Letters for compliance at the time specified thereon. Also, appropriate sections of this maintenance manual.
- (2) Check that all aircraft documents are present and in order:

Aircraft Airworthiness Certificate (Form FAA 8100-2)

Aircraft Registration Certificate (Form FAA 8050-1 or FAA 8050-3)

Weight and Balance Sheet

Aircraft Equipment List

Any Repair and Alteration Forms if applicable (Form FAA 337)

Aircraft Radio Station License if applicable (Form FCC 566 or FCC 453B)

Aircraft and Engine Log Books

NOTE: All of the above items except the log books must be carried in the aircraft at all times. Form FAA 8100-2, FAA 8050-3 and FCC 566 (FCC 453-B) must be visually displayed.

- (3) Check that operating limitations placards (reference Chapter 11) are displayed.

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MODELS AA-5, AA-5A & AA-5B
ANNUAL OR 100 - HOUR INSPECTION PROCEDURE

ANNUAL OR 100 HOUR INSPECTION PROCEDURE GUIDELINE

FAR 43.15 (C) (1) states: "Each person performing an annual or 100 hour inspection shall use a check list while performing the inspection. The check list may be of the person's own design, one provided by the manufacturer of the equipment being inspected, or one obtained from another source. This checklist must include the scope and detail of the items contained in appendix D to this part and paragraph (b) of this section." The following pages contain a comprehensive annual or 100 hour inspection procedure check list. This check list has been prepared to assist a mechanic in performing a detailed inspection of such scope and detail that when the inspection is completed, the mechanic is absolutely sure that he has not overlooked any areas, even though he may not have previous experience on this particular model aircraft. Once a mechanic becomes familiar with this aircraft, he may wish to prepare his own check list, which must be within the scope of appendix D of FAR part 43.

OWNER'S NAME		STREET ADDRESS	
CITY	STATE	ZIP CODE	
IDENTIFICATION NUMBER	SERIAL NUMBER	HOURS	DATE INSPECTION COMPLETED
SERVICING AGENCY	CITY	STATE	

Check for conformity with FAA Specifications, Airworthiness Directives and Gulfstream American Corporation and Supplier's Service Bulletins and Letters.

N O T E

It is recommended that reference be made to the applicable maintenance handbook, service bulletins, letters, installation instructions, and vendor specifications for torque values, clearances, settings, tolerances and other specification data.

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**MODELS AA-5, AA-5A & AA-5B
ANNUAL OR 100 - HOUR INSPECTION PROCEDURE**

PRE-INSPECTION ENGINE RUN UP		MECH	INSP.
Prior to beginning the Annual or 100 hour inspection, an engine run up is to be made to facilitate oil drainage and to observe the following, noting any discrepancies:			
1. Fuel Pressure (0.5 to 8 PSI) Electric Pump only prior to engine start up _____ Engine Pump only after engine start up _____ Both _____			
2. Oil Pressure (60 to 90 PSI) (Approx. 25 PSI idling) Actual _____ Actual _____			
3. Magneto RPM Drop (175 RPM maximum drop on either magneto; no more than 50 RPM difference between magnetos.) Actual Drop Left _____ Right _____			
4. Static RPM: AA-5 & AA-5A AA-5B (2250-2375) (2150-2275) Actual _____ Actual _____			
5. Idling Speed: AA-5 & AA-5A AA-5B (600 to 650 RPM) (500 to 650 RPM) Actual _____ Actual _____			
6. Ammeter (no steady discharge in normal operating range)			
7. Suction Gauge (4.6 to 5.4 In. Hg.)			
8. Fuel Selector (check operation in all positions)			
9. Carburetor Heat Control			
10. Engine Response to change in power			
11. Idle cut-off			

Inspection Procedures Guideline
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MODELS AA-5, AA-5A & AA-5B ANNUAL OR 100 - HOUR INSPECTION PROCEDURE		
A. PROPELLER GROUP	MECH.	INSP.
1. Remove spinner and check for cracks, scratches, scoring, dents, nicks and distortions.		
2. Inspect blades for erosion, scratches, nicks and cracks. Dress out nicks as required		
3. Inspect spinner back plate, bulkheads and doubler for cracks and secure mounting.		
4. Check front crankshaft seal for oil leaks		
*5. Check propeller mounting bolt torque: _____ Foot pounds or _____ inch pounds. Resafety propeller, mounting bolts.		
*6. Reinstall spinner. Check spinner run out _____ inch maximum.		
B. ENGINE GROUP	MECH.	INSP.
1. Remove engine cowl. Clean and check for cracks, wear, distortion, loose or missing fasteners and landing light attachment		
2. Drain oil sump. Remove oil screens, clean and inspect for metal particles. Reinstall and resafety. Replace oil filter (If installed). Cut apart and inspect old filter for metal particles.		
3. Check oil temperature sending unit, oil lines, cooler, and fittings for leaks, chafing, dents, cracks, and secure mounting.		
4. Fill engine with oil per lubrication chart.		
5. Clean engine.		
6. Check engine cylinder compression #1.____ #2.____ #3.____ #4 ____		
7. Clean and regap or replace spark plugs as required (See latest revision of Lycoming Service Instruction No. 1042)		

*Refer to Maintenance Manual Chapter 61 and insert required values here applicable to your aircraft for quick reference during inspection.

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MODELS AA-5, AA-5A & AA-5B ANNUAL OR 100 - HOUR INSPECTION PROCEDURE		
B. ENGINE GROUP (Continued)	MECH.	INSP.
8. Check ignition harnesses. Clean and inspect insulators		
9. Check magnetos to engine timing, oil seal leakage, and distributor block for cracks, burned areas and corrosion		
10. Remove and service air filter (see Chapter 73 for details). Inspect carburetor heat control valve plate, shaft, valve plate to shaft screws and bearings for signs of wear and security. Replace filter and/or gasket if damaged or defective. Reinstall carburetor air filter		
11. Check induction air intake seals for leaks, deterioration and hardness. Check flex ducts for broken or loose strings, loose or displaced supporting wire and general overall condition for signs of wear or perforation		
12. Drain carburetor bowl. Reinstall drain plug. Remove and clean carburetor fuel inlet screen with acetone. Reinstall screen		
13. Remove and clean electric fuel pump filter. Reinstall and resafety		
14. Check fuel pump for proper operation and secure mounting. Pressurize fuel system with electric pump and inspect fuel system and lines for leaks. Check fuel primer for operation and line leaks		
15. Check starter for secure mounting		
16. Check security of throttle arm on carburetor. Check throttle, carburetor heat, and carburetor mixture controls for proper travel, security, operating condition and control cushion		
17. Remove exhaust shroud and check muffler tailpipe, risers, clamps, gaskets and exhaust system for cracks, leaks and secure mounting. Reinstall shroud		

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MODELS AA-5, AA-5A & AA-5B ANNUAL OR 100 - HOUR INSPECTION PROCEDURE		
B. ENGINE GROUP (Continued)	MECH.	INSP.
18. Check breather tube for obstructions and secure mounting . . .		
19. Inspect cylinders for evidence of excessive heat indicated by burned paint on the cylinder. Check for cracks, loose bolts, oil leaks and general condition		
20. Inspect engine mount for cracks, secure mounting and proper safety wiring. Check rubber vibration dampeners for signs of deterioration. Replace as required		
21. Check all baffles for cracks, loose or missing screws and deteriorated seal material		
22. Check alternator for secure mounting and lugs and brackets for cracks. Check condition and tension of alternator drive belt. Replace if required. (Adjust belt tension to yield a 5/16 in. deflection at the center of the belt when applying a pressure equivalent to 14 pounds for new belts and 10 pounds for used belts		
23. Check battery electrolyte level and specific gravity. Clean and tighten battery terminals. Check battery box drains and vents for condition and drainage clear of aircraft structure . .		
24. Inspect vacuum system components (if installed) for secure mounting. Check vacuum pump drive for evidence of seal leakage. Replace seal and pump if required. Check all inter-connecting lines and fittings for leaks, deterioration and damage. Replace as required		
25. Check ground straps for condition and secure attachment		
26. Check electrical wiring for condition and secure connections including shielded cable ground connections		

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MODELS AA-5, AA-5A & AA-5B ANNUAL OR 100 - HOUR INSPECTION PROCEDURE		
B. ENGINE GROUP (Continued)	MECH.	INSP.
27. Check voltage regulator, starter relay and master switch relay for secure mounting and proper operation		
28. Install cowl, checking for proper engagement of air intake duct and cowl latches		
C. CABIN GROUP	MECH.	INSP.
1. Remove front seats, fold rear seat forward, remove cover from rear seat support and remove console side panels		
2. Check windshield, windows and canopy for cracks and secure mounting. Clean and lubricate canopy rails. Check canopy operation and locking devices		
3. Check seat belts and shoulder harnesses for condition and secure mounting		
4. Check elevator trim control for condition, secure mounting, proper operation and indication		
5. Check rudder pedal and brake system for proper operation and condition. Check brake fluid level. Replace rudder pedal springs at 1000 hours		
6. Check control "T" for secure mounting and adequate clearance from other equipment		
7. Check chains, cables, pulleys, turnbuckles and cable ends for condition, secure attachment and safeties. Specifically check cables at pulleys for fraying while actuating controls through full travel. (Max. of four broken wires acceptable)		
8. Check cable tension at the average temperature for aircraft operation		
9. Check all controls for clearance and proper operation		

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MODELS AA-5, AA-5A & AA-5B ANNUAL OR 100 - HOUR INSPECTION PROCEDURE		
C. CABIN GROUP (Continued)	MECH.	INSP.
10. Check all interior bond lines for any indications of damage, peeling or cracking		
11. Check nose gear torque tubes and mounting brackets and bond joints for cracks and secure mounting. Check torque on mounting bolts - center bearing bracket bolts 185-195 in. lb and end plate bolts 300-350 in. lb		
12. Check flap actuator, push rods, limit switches and indicator for proper operation and secure mounting		
13. Lubricate per lubrication chart (Chapter 12)		
14. Check all plumbing in cabin for leaks and condition		
15. Disassemble, clean, lubricate and reassemble fuel selector valve every 500 hours. See fuel system section for details		
16. Check gyro system filters (if installed), replace if necessary. . .		
17. Check instruments for condition, secure mounting and legible markings.		
18. Check electrical wiring switches, lights and electronic equipment for condition and security		
19. Inspect baggage compartment, baggage door and cargo tie-downs.		
20. Inspect all placards in cabin for condition and legibility		
21. Reinstall cover over rear seat support, console side panels and front seats		
22. Check fresh air vents for proper operation		
23. Check and verify correct quantity and rating of spare fuses mounted in right side of glove box		
D. FUSELAGE AND EMPENNAGE GROUP	MECH	INSP.
1. Remove tailcone and empennage covers.		
2. Inspect emergency locator transmitter for security, operation and battery expiration date		

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**MODELS AA-5, AA-5A & AA-5B
ANNUAL OR 100 - HOUR INSPECTION PROCEDURE**

D. FUSELAGE AND EMPENNAGE GROUP (Continued)	MECH.	INSP.
3. Inspect exterior surfaces for condition and damage. Check all drain holes in the fuselage bottom for obstructions		
4. Inspect bond lines for any indication of damage, peeling or cracks		
5. Check ventral fin (Model AA-5), horizontal and vertical stabilizers for damage and secure mounting. Insure that horizontal stabilizer and elevator drain holes are open		
6. Check elevator, elevator bearings and stops, rudder, rudder bearings and stops, tab hinges and bellcranks for damage, travel and proper operation. Maximum allowable torque tube wear limit at bearing supports is 0.030 in. reduction in wall thickness		
7. Check elevator trim mechanism for damage, secure mounting and proper operation		
8. Check rudder and elevator cables and pulleys for damage, proper operation and safeties. Check bellcrank attaching bolts for wear.		
9. Lubricate per lubrication chart. (Chapter 12)		
10. Inspect antenna mountings, wiring and electronic installations . .		
11. Check position and anti-collision light(s) for secure mounting. . .		
12. Check static system lines and the alternate air source valve (if so equipped). Drain any accumulated moisture from system drain		
13. Reinstall inspection covers		

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MODELS AA-5, AA-5A & AA-5B ANNUAL OR 100 - HOUR INSPECTION PROCEDURE		
E. WING GROUP	MECH.	INSP.
1. Remove wing tips and access panels. Inspect surfaces, skins, ribs and tips for damage. Check position and anti-collision lights for secure mounting. Insure that all wing drain holes are open		
2. Visually inspect interior and exterior bond lines for any indication of damage, peeling or cracks		
3. Check ailerons, aileron bearings and stops, flaps, and flap bearings for secure mounting, damage, proper travel and wear. Maximum allowable aileron torque tube wear limit at bearing supports is 0.030 in. reduction in wall thickness. Check that aileron flap and drain holes are open. Check that aileron balance weight tube arm I. D. is open, corrosion free and zinc coated (early aircraft only)		
4. Check fuel vents and connecting lines for damage and restrictions .		
5. Check fuel tanks, sump tanks and lines for evidence of leakage. Check sump tanks and lines for secure mounting		
6. Check fuel cap gaskets for air tight seal		
7. Check wing and outboard wing section attaching bolts. Torque to 60-85 in. lb		
8. Inspect fuel tank placards		
9. Check pitot heating element for proper operation (if installed) . . .		
10. Check pitot tube opening and lines. Drain accumulated moisture. .		
11. Check for interior corrosion of skin indicated by a white flaking ash.		

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**MODELS AA-5, AA-5A & AA-5B
ANNUAL OR 100 - HOUR INSPECTION PROCEDURE**

MODELS AA-5, AA-5A & AA-5B ANNUAL OR 100 - HOUR INSPECTION PROCEDURE		
F. MAIN LANDING GEAR GROUP	MECH.	INSP.
1. Remove wheels and check for cracks. Check condition of brake linings, wheel cylinders, torque plates and mounting pins. Pack wheel bearings, reinstall wheels and key axle nuts at first 100 hours and each 500 hours thereafter. Inspect wheel bearing grease for contamination and solidification at each annual or 100 hour inspection. For operation in dusty areas or areas of high humidity, repack every 100 hours. Perform a complete wheel inspection when tires are replaced		
2. Check tires for approved type, wear and proper inflation		
3. Check brake lines for leaks and secure attachment		
4. Check struts for secure mounting. Inspect for cracks, delamination and nicks		
5. Inspect the upper main mounting brackets and spar attaching supports (center spar to fuselage) for wear, cracks and loose bolts		
6. Inspect wheel and strut fairings for damage and secure mounting (if installed)		
G. NOSE GEAR GROUP	MECH.	INSP.
1. Check nose gear strut for secure mounting, deformation, damage and cracks		
2. Remove nose gear strut from torque yoke and inspect for corrosion of the faying surfaces every 12 calendar months. Remove corrosion if present, paint surfaces with zinc-chromate and reassemble wet. Seal strut to yoke connection with RTV-102 by DOW CORNING		
3. Remove and check nose gear fork for deformation, wear and cracks. Maximum fork to strut bearing clearance is 0.035 in.		

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MODELS AA-R, AA-5A & AA-5B ANNUAL OR 100 - HOUR INSPECTION PROCEDURE		
G. NOSE GEAR GROUP (Continued)	MECH.	INSP.
4. Grease fork and friction dampener, assemble to strut and tighten to 10-22 lb. drag at axle		
5. Remove nose wheel, check for cracks, clean, inspect and repack bearings, reinstall wheel and safety axle at first 100 hours and each 500 hours thereafter. Inspect wheel bearing grease for contamination and solidification at each annual or 100 hour inspection. For operation in dusty areas or areas of high humidity, repack every 100 hours. Perform a complete wheel inspection when tire is replaced		
6. Inspect nose wheel for cracks, corrosion and loose or broken bolts		
7. Check tire for approved type, wear and proper inflation.		
8. Check wheel fairing for damage and secure mounting (If installed)		
H. OPERATIONAL INSPECTION	MECH.	INSP.
1. Check brake operation (including parking brake)		
2. Check fuel primer operation and lines for leaks		
3. Check booster pump operation		
4. Check fuel pressure		
5. Check starter for proper operation		
6. Check oil pressure and temperature		
7. Check engine controls for proper operation. Check throttle control for proper cushion		

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MODELS AA-5, AA-5A & AA-5B ANNUAL OR 100 - HOUR INSPECTION PROCEDURE		
H. OPERATIONAL INSPECTION (Continued)	MECH.	INSP.
8. Check magneto operation; both ON, left OFF; both ON, right OFF; both ON. (Maximum magneto drop 175 RPM with 50 RPM maximum difference between magnetos). With engine at idle, turn switch to OFF position momentarily to check magneto grounding		
9. Check engine static RPM: 2250-2375, Model AA-5 and AA-5A 2150-2275, Model AA-5B		
10. Check carburetor heater for proper operation		
11. Check alternator output		
12. Check suction gauge and vacuum system output 4.6 to 5.4 in Hg.		
13. Check fuel selector valve operation and indexing		
14. Check heating, defrosting and ventilating system for proper operation.		
15. Check radio for proper operation		
16. Check engine mixture setting and idle speed: 600-650 RPM, Model AA-5 and AA-5A; 500-650 RPM, Model AA-5B.		
17. Check idle cut off on carburetor for proper operation		
18. Check ailerons for proper operation		
19. Check elevators and trim tabs for proper operation.		
20. Check flaps for proper operation.		
21. Check fuel quantity gauges for condition and proper operation . .		

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MODELS AA-5, AA-5A & AA-5B
ANNUAL OR 100 - HOUR INSPECTION PROCEDURE

H. OPERATIONAL INSPECTION (Continued)	MECH.	INSP.
22. Check interior lights for proper operation and adjustment. . . .		
23. Check navigation and anti-collision lights for proper operation and landing lights for proper operation and adjustment		
24. Check pitot heat for proper operation.		
25. Check stall warning device for operation		
26. Inspect engine after ground run-up. Flight test and inspect for oil leaks and secure mounting of all components		
I. GENERAL	MECH.	INSP.
1. Aircraft cleaned and serviced		
2. Aircraft conforms to FAA Specifications		
3. All FAA Airworthiness Directives complied with		
4. All manufacturer's Service Letters and Bulletins complied with		
5. Checked for proper Owners Manuals or Pilots Operating Hand-book.		
6. Aircraft papers in proper order. Make log book entry		

"END OF INSPECTION"

Inspection Procedures Guideline
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