

AMERICAN
MODEL AA-1 YANKEE
ANNUAL OR 100 - HOUR INSPECTION PROCEDURE

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 American Aviation Corporation and Supplier's Service Bulletins and Letters.

NOTE.
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.

AMERICAN
MODEL AA-1 YANKEE
ANNUAL OR 100-HOUR INSPECTION PROCEDURE

A. PROPELLER GROUP	MECH.	INSP.
1. Remove spinner and check for cracks and loose rivets in forward bulkhead		
2. Inspect blades for nicks and cracks		
3. Inspect spinner back plate for cracks and secure mounting		
4. Check front crankshaft seal for oil leaks		
5. Check propeller mounting bolt torque to 280-320 in. lbs. Resafety if necessary		
B. ENGINE GROUP	MECH.	INSP.
1. Remove engine cowl. Clean and check for cracks, distortion and loose or missing fasteners		
2. Drain oil sump. Remove oil screens, clean and inspect for metal particles. Reinstall and resafety		
3. Check oil temperature sending unit, oil lines and fittings for leaks, chafing, dents, cracks and secure mounting		
4. Check valve rocker clearance		
5. Fill engine with oil per lubrication chart		
6. Clean engine		
7. Check engine cylinder compression		
8. Clean or replace spark plugs as required		
9. Check ignition harnesses. Clean and inspect insulators		
10. Check magnetos to engine timing, oil seal leakage, and distributor block for cracks, burned areas and corrosion		
11. Remove, clean, inspect, oil and reinstall carburetor air filter. Replace if damaged or defective		
12. Check intake seals and flex ducts for leaks, deterioration and hardness		

AMERICAN
MODEL AA-1 YANKEE
ANNUAL OR 100-HOUR INSPECTION PROCEDURE

B. ENGINE GROUP (Continued)	MECH.	INSP.
13. Drain carburetor. Reinstall drain plug. Remove and clean carburetor fuel screen. Reinstall screen		
14. Remove and clean electric fuel pump filter. Reinstall and resafety		
15. Check fuel pump for proper operation and secure mounting. Inspect fuel system and lines for leaks		
16. Check alternator and starter for proper operation and secure mounting		
17. Check throttle, carburetor heat and carburetor mixture controls for proper travel, security, operating condition and control cushion		
18. Remove exhaust shroud and check exhaust system for cracks, leaks and secure mounting		
19. Check breather tube for obstructions and secure mounting		
20. Inspect cylinders for evidence of excessive heat indicated by burned paint on the cylinder. Check for cracks, loose bolts and general condition		
21. Inspect engine mount for secure mounting and proper safety wiring. Check rubber vibration dampeners for signs of deterioration. Replace as required		
22. Check all baffles for cracks, loose or missing screws and deteriorated seal material		
23. Check condition and tension of alternator drive belt. Replace if required		
24. Check battery electrolyte level and specific gravity. Clean and tighten battery terminals		
25. Inspect vacuum system components (if installed) for secure mounting. Check vacuum pump drive for evidence of seal leakage. Replace seal if required. Check all inter-connecting lines and fittings for leaks, deterioration and damage. Replace as required		

AMERICAN
MODEL AA-1 YANKEE
ANNUAL OR 100-HOUR INSPECTION PROCEDURE

C. CABIN GROUP	MECH.	INSP.
1. Remove seats, roll up baggage floor covering, remove inspection covers and fold up aft section of console. Leave in this position until flap, aileron, rudder and elevator inspection and adjustments are completed		
2. Check windshield, windows and canopy for cracks and secure mounting. Check canopy operation and locking devices		
3. Check seat belts for condition and secure mounting		
4. Check trim operation		
5. Check rudder pedal and brake system for proper operation and condition		
6. Check control "T" for secure mounting and adequate clearance from other equipment		
7. Check cables and pulleys for condition, secure attachment and safeties		
8. Check cable tension		
9. Check all controls for clearance and proper operation		
10. Check all interior bond lines for indications of peeling or cracking		
11. Check nose gear torque tubes and mounting brackets for cracks and secure mounting		
12. Check flap actuator, push rods, limit switch and indicator for proper operation and secure mounting		
13. Lubricate per lubrication chart		
14. Check all plumbing in cabin for leaks and condition		
15. Check gyro system filters (if installed), replace if necessary		
16. Check instruments for condition, secure mounting and legible markings		
17. Check electrical wiring, switches and lights		
18. Inspect baggage compartment and cargo tie-downs		
19. Inspect all placards in cabin for condition and legibility		

AMERICAN
MODEL AA-1 YANKEE
ANNUAL OR 100-HOUR INSPECTION PROCEDURE

D. FUSELAGE AND EMPENNAGE GROUP	MECH.	INSP.
1. Remove tailcone and empennage covers		
2. Inspect exterior surfaces for condition and damage		
3. Inspect bond lines for separation or peeling		
4. Check horizontal and vertical stabilizers for secure mounting		
5. Check elevator and stops, rudder and stops, tab hinges and bellcranks for damage, travel and proper operation		
6. Check elevator trim and bungee mechanism for damage, secure mounting and proper operation		
7. Check rudder and elevator cables and pulleys for damage, proper operation and safeties. Check bellcrank attaching bolts for wear		
8. Lubricate per lubrication chart		
9. Inspect antenna mounting, wiring, and electronic installations		
10. Check flashing beacon for secure mounting and proper operation		
11. Check static system openings and lines		
E. WING GROUP	MECH.	INSP.
1. Remove wing tips and access panels		
2. Inspect surfaces, skins and tips for damage		
3. Visually inspect interior and exterior bond lines for separation and cracks		
4. Check ailerons, aileron stops and flaps for secure mounting, damage and proper travel		
5. Check fuel vents and connecting lines for damage and restrictions		
6. Check fuel tank outboard end plates for leaks and secure mounting		
7. Check fuel block lines and spar for evidence of leakage through wing root access opening		

AMERICAN
MODEL AA-1 YANKEE
ANNUAL OR 100-HOUR INSPECTION PROCEDURE

E. WING GROUP (Continued)	MECH.	INSP.
8. Check fuel cap gaskets		
9. Check wing attaching bolts		
10. Inspect fuel tank placard		
11. Check pitot heating element for proper operation		
12. Check pitot tube opening and lines, drain accumulated moisture		
13. Check for interior corrosion of skin indicated by a white flaking ash		
F. MAIN LANDING GEAR GROUP	MECH.	INSP.
1. Remove wheels and check brake linings for wear and condition. Pack wheel bearings, reinstall wheels and key axle nuts		
2. Check wheels for wear and proper inflation		
3. Check brake lines for leaks and secure attachment		
4. Check struts for secure mounting. Inspect for cracks and nicks		
5. Inspect the upper main mounting brackets and spar attaching collars for wear, cracks and loose bolts		
6. Inspect wheel fairings for damage and secure mounting (if installed)		
G. NOSE GEAR GROUP	MECH.	INSP.
1. Check nose gear strut for secure mounting, damage and cracks		
2. Remove and check nose gear fork for wear and cracks		
3. Grease fork and friction dampener, assemble to strut and tighten to 10-13 lb. drag at axle		
4. Oil and inspect the nose centering detent (if used) for wear, secure mounting and proper operation		

AMERICAN
MODEL AA-1 YANKEE
ANNUAL OR 100-HOUR INSPECTION PROCEDURE

G. NOSE GEAR GROUP (Continued)	MECH.	INSP.
5. Remove nose wheel, clean, inspect and repack bearings		
6. Inspect wheel for cracks, corrosion and loose or broken bolts		
7. Check tire for wear and proper inflation		
8. Check wheel fairings for damage and secure mounting (if installed)		
H. OPERATIONAL INSPECTION	MECH.	INSP.
1. Check brake operation (including parking brake)		
2. Check fuel primer operation		
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		
8. Check magneto operation, <u>both</u> on, <u>left</u> off, <u>right</u> off		
9. Check engine static rpm (2150-2300)*		
* Climb prop static rpm (2250-2400)		
10. Check carburetor heater for proper operation		
11. Check alternator output		
12. Check suction gauge and vacuum system output		
13. Check fuel selector valve operation and indexing		
13. Check heating and ventilating system for proper operation		
15. Check radio for proper operation		
16. Check engine idle speed (600 to 650 rpm) and mixture setting		

AMERICAN
MODEL AA-1 YANKEE
ANNUAL OR 100-HOUR INSPECTION PROCEDURE

H. OPERATIONAL INSPECTION (Continued)	MECH.	INSP.
17. Check idle cut off on carburetor for proper operation		
18. Check flaps for proper operation		
19. Check fuel quantity gauges for condition and proper operation		
20. Check interior lights for proper operation and adjustment		
21. Check flashing beacon for proper operation		
22. Check navigation and landing lights for proper operation and adjustment		
23. Check pitot heat for proper operation		
24. Check stall warning device for operation		
25. 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 flight manual		
6. Aircraft papers in proper order		
"END OF INSPECTION"		