

PIPER AIRCRAFT CORPORATION

INSPECTION REPORT

This form meets requirements of FAR Part 43 - Inspections must be performed by persons authorized by the FAA.

Make: PIPER ARROW		Model PA-28R-201-201T		Serial No.		Registration No.		
Circle Type of Inspection (See Note 2)								
50	100	500	1000	Annual				
DESCRIPTION		50	100	500	1000	Inspector		
A. PROPELLER GROUP								
WARNING Read Note 28 prior to completing this inspection group.								
1. Inspect spinner and back plate for cracks.....		0	0	0	0			
2. Inspect blades for nicks and cracks.....		0	0	0	0			
3. Inspect for grease and oil leaks.....		0	0	0	0			
4. Lubricate propeller per lubrication chart (Refer to Service Manual, Section II).....		0	0	0	0			
5. Inspect complete spinner and spinner mounting bulkheads, for security, chafing, cracks, deterioration, wear, and correct installation.....			0	0	0			
6. Inspect propeller mounting bolts and safety (check torque if safety is broken) (Refer to Note 16).....			0	0	0			
7. Inspect hub parts for cracks and corrosion.....			0	0	0			
8. Rotate blades of propeller and check for tightness in hub pilot tube.....			0	0	0			
9. Remove propeller and clean sludge from propeller and shaft.....				0	0			
10. Inspect complete propeller assembly for security, chafing, deterioration, wear, and correct installation.....			0	0	0			
11. Overhaul propeller (See Notes 5 and 28).....								
B. ENGINE GROUP (CONTINENTAL)								
WARNING Read Notes 22, 4, and 28 before completing this inspection group. When working on engine, ensure that magneto primary circuits are grounded.								
1. Remove the engine cowl.....		0	0	0	0			
2. Clean and inspect cowl for cracks, distortion and loose or missing fasteners.....			0	0	0			
3. Drain oil sump while engine is still warm.....			0	0	0			
4. Change full flow (spin-on type) oil filter element. (Thoroughly inspect element for foreign particles). Check oil level after installing new filter (Another check will be required after engine runup).....		0	0	0	0			
5. Inspect oil temperature sender unit for leaks and security.....			0	0	0			
6. Inspect oil lines, hoses, and fittings for leaks, security, chafing, dents and cracks (Read Note 6).....		0	0	0	0			
7. Clean and inspect oil radiator cooling fins. Verify that there is no radiator damage.....			0	0	0			
8. Fill engine oil sump with oil per approved information on cowl, or lubrication chart. (Refer to Service Manual Section II).....			0	0	0			
CAUTION DO NOT USE MULTIGRADE OIL until Hartzell Service Bulletin 142B has been compiled with.								
CAUTION Prior to cleaning engine, use caution not to contaminate vacuum pump with cleaning fluid. Cap all openings.								
9. Clean engine, then (Read Note 29).....		0	0	0	0			
10. Inspect condition of spark plugs. (Clean and adjust gap as required) (Read Note 8).....			0	0	0			
11. Check cylinder compression, preferably with engine warm. (Read Note 12).....			0	0	0			
Perform all inspections or operations at each of the inspection intervals as indicated by a circle (0)								
DESCRIPTION		50	100	500	1000	Inspector		
12. Inspect ignition harness and insulators (high tension leakage and continuity) (Read Notes 5 and 21).....		0	0	0	0			
13. Check magneto points for proper clearance (maintain clearance of 0.018 +/- 0.006 inch). (Read Note 5).....			0	0	0			
14. Inspect magneto or oil seal leakage.....			0	0	0			
15. Inspect breaker felts for proper lubrication.....			0	0	0			
16. Inspect distributor block for cracks, burned areas, or corrosion, and height of contact springs.....				0	0			
17. Check magneto-to-engine timing (Read Note 15).....			0	0	0			
18. Overhaul or replace magnetos (Read Note 5).....					0			
19. Remove induction air filter and tap gently to remove all foreign particles (replace as required).....		0	0	0	0			
20. Clean injector nozzles (Clean with acetone only).....		0	0	0	0			
21. Inspect induction airbox valve operation and check for excessive wear or cracks; replace defective parts.....			0	0	0			
22. Inspect fuel injector attachments for loose hardware.....			0	0	0			
23. Inspect intake seals for leaks and clamps for tightness (Read Note 24).....			0	0	0			
24. Inspect all air inlet duct hoses (Replace as required).....			0	0	0			
25. Inspect condition of flexible fuel lines. (Replace all outdated or deteriorated hoses).....			0	0	0			
26. Replace flexible fuel lines (Read Note 6).....					0			
27. Clean gascolator bowl and screen.....		0	0	0	0			
28. Inspect fuel system for leaks.....			0	0	0			
29. Inspect condition and operation of fuel pumps (engine driven and electric).....			0	0	0			
30. Overhaul or replace engine-driven fuel pumps (Read Note 5).....					0			
31. Overhaul or replace electric fuel pump as required.....					0			
32. Inspect hoses, wires, clamps, condition, and operation of vacuum pump(s) (engine-driven and auxiliary electrically-driven) (Read Note 25).....			0	0	0			
33. Replace engine or electrically driven vacuum pump(s) (Read Note(s) 5 and 25).....					0			
34. Inspect throttle, alternate air, mixture, and propeller controls for security, travel, and operating condition.....			0	0	0			
35. Inspect exhaust stacks, connections, and gaskets (Replace gaskets as required).....		0	0	0	0			
36. Inspect breather tubes for obstructions and security.....			0	0	0			
37. Inspect crankcase for cracks, leaks, and security of seam bolts.....			0	0	0			
38. Inspect engine mounts for cracks and loose mountings.....			0	0	0			
39. Inspect rubber engine mount bushings for deterioration (replace as reqd.) or at engine overhaul.....			0	0	0			
40. Inspect all engine baffles and seals.....			0	0	0			
41. Inspect fire wall seals.....			0	0	0			
42. Inspect condition of alternator and starter.....			0	0	0			
43. Inspect all lines, hoses, air ducts, electrical leads, and engine attachments for security, proper routing, chafing, cracks, deterioration and correct installation (Refer to latest Piper Service Bulletin 561).....		0	0	0	0			
44. Check air conditioner compressor oil level (Read Note 13).....			0	0	0			
45. Inspect condition and tension of compressor drive belt (Refer to Service Manual, Section XIV).....			0	0	0			
46. Inspect security of compressor mounting.....			0	0	0			
47. Inspect compressor clutch security, wiring, and condition.....			0	0	0			
48. Check fluid in brake reservoir (Fill as required).....		0	0	0	0			
49. Overhaul or replace propeller governor. (Refer to latest revision of Hartzell Service Letter 61).....					0			
50. Complete overhaul of engine or replace with factory rebuilt. (Read Note 5).....								

Owner:

Circle Type of Inspection (See Note 2)						Perform all inspections or operations at each of the inspection intervals as indicated by a circle (0)													
50	100	500	1000	Annual		50	100	500	1000	Inspector		50	100	500	1000	Inspector			
DESCRIPTION							DESCRIPTION							DESCRIPTION					
50.			0	0	0							10.	0	0	0	0			
51.			0	0	0							11.		0	0	0			
52.			0	0	0							12.	0	0	0	0			
53.			0	0	0							13.	0	0	0	0			
54.			0	0	0							14.		0	0	0			
55.			0	0	0							15.		0	0	0			
56.	0		0	0	0							16.		0	0	0			
57.			0	0	0							17.		0	0	0			
58.			0	0	0							18.		0	0	0			
59.			0	0	0							19.		0	0	0			
60.	0		0	0	0							20.		0	0	0			
E. CABIN GROUP												21.		0	0	0			
WARNING												22.		0	0	0			
Read Note 28 before completing this inspection group.												23.		0	0	0			
1.	0		0	0	0							24.		0	0	0			
2.			0	0	0							25.		0	0	0			
3.			0	0	0							26.		0	0	0			
4.			0	0	0							27.		0	0	0			
5.			0	0	0							28.		0	0	0			
6.			0	0	0							29.		0	0	0			
7.			0	0	0							30.		0	0	0			
8.	0		0	0	0							31.		0	0	0			
9.			0	0	0							32.		0	0	0			
10.			0	0	0							33.	0	0	0	0			
11.			0	0	0							34.		0	0	0			
12.			0	0	0							35.		0	0	0			
13.			0	0	0							36.		0	0	0			
14.			0	0	0							37.		0	0	0			
15.			0	0	0														
16.			0	0	0														
17.			0	0	0														
18.			0	0	0														
F. FUSELAGE AND EMPENNAGE GROUP												G. WING GROUP							
WARNING												WARNING							
Read Note 28 before completing this inspection group.												Read Note 28 before completing this inspection group.							
1.			0	0	0							1.		0	0	0			
2.			0	0	0							2.		0	0	0			
3.	0		0	0	0							3.		0	0	0			
4.			0	0	0							4.		0	0	0			
5.			0	0	0							5.		0	0	0			
6.			0	0	0							6.		0	0	0			
7.			0	0	0							7.		0	0	0			
8.	0		0	0	0							8.		0	0	0			
9.			0	0	0									0	0	0			

Circle Type of Inspection (See Note 2)					Inspector	Perform all inspections or operations at each of the inspection intervals as indicated by a circle (0)					Inspector			
50	100	500	1000	Annual		50	100	500	1000					
DESCRIPTION						DESCRIPTION								
9. Lubricate per lubrication chart in Service Manual Section II.....					0	0	0	0		I. OPERATIONAL INSPECTION				
10. Inspect wing attachment bolts and brackets (Refer to Piper Service Bulletin(s) 789A and 886).....						0	0	0		1. Check fuel pump and fuel tank selector.....				
11. Inspect fuel tanks and lines for leaks, water, and contamination.....						0	0	0		2. Check fuel quantity, pressure, and flow indications.....				
12. Ensure that fuel tanks are marked for minimum octane rating.....						0	0	0		3. Check oil pressure and temperature indications.....				
13. Inspect the fuel cell vents for obstructions.....						0	0	0		4. Check alternator performance.....				
14. Inspect all control cables, air ducts, electrical leads, hoses, lines, and attaching parts for security, routing, chafing, deterioration, wear, and correct installation (Read Note 23).....						0	0	0		5. Check manifold pressure indications.....				
15. Install inspection plates and fairings.....						0	0	0		6. Check alternate air operation.....				
H. LANDING GEAR GROUP										7. Check parking brake.....				
WARNING										8. Check engine driven vacuum gauge indication.....				
Read Note 28 before completing this inspection group.										9. Check gyros for noise and roughness.....				
1. Inspect oleo struts for proper extension (Refer to Service Manual, Section VII) (check all fluid and air levels as required).....					0	0	0	0		10. Check cabin heater operation.....				
2. Inspect nose gear steering control and travel.....						0	0	0		11. Check magneto switches operation.....				
3. Inspect wheels for alignment.....						0	0	0		12. Check each magneto RPM variation; drop etc.....				
4. Lift aircraft on jacks (Refer to Service Manual, Section II).....						0	0	0		13. Check throttle and mixture operation.....				
5. Inspect tires for cuts, uneven or excessive wear, and slippage.....						0	0	0		14. Check propeller operation and smoothness.....				
6. Remove wheels; clean, inspect, and repack bearings.						0	0	0		15. Check propeller governor operation and reaction.....				
7. Inspect wheels for cracks, corrosion, and broken bolts						0	0	0		16. Check engine idle.....				
8. Check tire pressure (Refer to Service Manual, Section II).....					0	0	0	0		17. Check electronic equipment operation.....				
9. Inspect brake linings and disc.....						0	0	0		18. Check automatic pitch trim, and manual/electric trim operation (Read Note 20).....				
10. Inspect brake backing plates.....						0	0	0		19. Check air conditioner compressor clutch operation...				
11. Inspect brake and hydraulic lines for leaks, loose fittings, or cracks.....						0	0	0		20. Check air conditioner condenser scoop operation.....				
12. Inspect shimmy dampener.....						0	0	0		21. Check landing gear system (Read Note 14).....				
13. Inspect gear forks for damage.....						0	0	0		22. After shutdown, check auxiliary electric driven vacuum gauge indication.....				
14. Inspect oleo struts for fluid leaks and scoring.....						0	0	0						
15. Inspect gear struts, attachments, torque links, retraction links, and bolts for condition and security...						0	0	0		J. GENERAL				
16. Inspect downlock for operation and adjustment (Read Note 18).....					0	0	0	0		1. Aircraft conforms to all FAA specifications.....				
17. Inspect torque link bolts and bushings (Rebush as required).....								0		2. All FAA Airworthiness Directives complied with...				
18. Inspect drag and side brace link bolts (Replace as required).....								0		3. All manufacturers service bulletins and letters complied with.....				
19. Inspect gear doors and attachments.....						0	0	0		4. Check for proper flight manual.....				
20. Check warning horn and light for operation.....						0	0	0		5. Aircraft papers in proper order.....				
21. Retract gear; check operation and inspect doors for clearance and operation.....						0	0	0						
22. Inspect operation of back-up gear extender system (If not disabled) (Read Piper Service Bulletin 866a) (Read Note 27).....						0	0	0						
23. Inspect actuating cylinders for leaks and security.....						0	0	0						
24. Inspect all hydraulic lines, hoses, electrical leads, and attaching parts for security, routing, chafing, deterioration, wear, and correct installation (Read latest revision of Piper Service Letters 808 and 810).....						0	0	0						
25. Inspect position indicator switch and electrical leads for security.....						0	0	0						
26. Lubricate per lubrication chart in Service Manual, Section II).....					0	0	0	0						
27. Ensure landing gear is down and locked; remove airplane from jacks.....						0	0	0						

NOTES:

1. Refer to last card of the Piper Price List - Aerofiche, for a checklist of current revision dates to Piper Inspection Reports and Manuals.
2. **Piper service bulletins are of special importance and Piper considers compliance mandatory.** Piper service letters are product improvements and service hints pertaining to servicing the airplane and should be given careful attention.
3. Inspections given for the Lycoming powerplant are based on the engine manufacturer's operator's manual (Lycoming Part No. 60297-12) for this airplane, dated August 1973. Any changes issued to the engine manufacturer's operator's manual after this date shall supersede or supplement the inspection outlined in this report.
4. Inspections given for the (Continental Part No. X-30512) for this airplane, dated June 1976. Any changes issued to the engine manufacturer's operator's manual after this date shall supersede or supplement the inspection outlined in this report.
5. Replace as required or at engine overhaul. (Refer to latest revision of Hartzell Service letter 61.) For engine overhaul, refer to latest revision of one of the following: Lycoming Service Instructions No. 1009, for recommended engine overhaul period, or Continental Service Bulletin M86-6 Rev. 1, for recommended engine overhaul period.
6. Replace flexible oil hoses at three calendar years or 1000 hours, whichever occurs first.
7. Check throttle body attaching screws for tightness; the correct torque for these screws is 40 to 50 inch-pounds.
8. Rotate spark plugs from upper to lower positions and vice-versa to lengthen plug service life.
9. At every 400 hours of engine operation, remove the rocker box covers and check for freedom of valve rockers when valves are closed. Look for evidence of abnormal wear or broken parts in the area of the valve tips, valve keepers, springs and spring seats. If any indications are found, the cylinder and all of its components must be removed (including the piston and connecting rod assembly) and inspected for further damage. Replace any parts that do not conform with limits shown in the latest revision of Lycoming's Service Table of Limits No. SSP1776.
10. Check cylinders for evidence of excessive heat which is indicated by burned paint on the cylinders. This condition is indicative of internal damage to cylinder(s) and, if found, its cause must be determined and corrected before the aircraft is returned to service. Heavy discoloration and appearance of seepage at the cylinder head barrel attachment area is usually due to emission of thread lubricant used during assembly of the barrel at the factory, or by slight gas leakage which stops after the cylinder has been in service for awhile. This condition is neither harmful nor detrimental to engine performance and operation. If it can be proven that leakage exceeds these conditions, the cylinder must be replaced.
11. If the altimeter is damaged, defective or inaccurate, work must be done by an FAA approved instrument repair facility only. A logbook entry must be made.
12. Refer to latest revision of Continental Motors Service Bulletin M84-17.
13. The compressor oil level should not be checked unless the system has been opened, or a Freon leak occurred which requires an addition of Freon to the system.
14. Aircraft must be flown to check the landing gear system in accordance with instructions outlined in Section VI, of the Service Manual. (Refer to latest revision of Piper Service Bulletin 610).
15. For operation above 12,000 feet, more frequent ignition system maintenance is required. (Refer to latest revision of Continental Service Bulletin M78-8).
16. On Continental installations check torque of mounting bolts.
17. Maintain cable tensions specified in Section V of this Service Manual.
18. Refer to latest revision of Piper Service Bulletin 578.
19. Inspect brushes every 100 hours if airplane is used for training or every 500 hours if used for normal service.
20. Refer to flight manual supplement for preflight and flight check, for intended function in all modes.
21. Refer to latest revision of Bendix Service Bulletin 612 for inspection of magneto and ignition harnesses.
22. Refer to latest revision Teledyne Continental Service Bulletin M86-11.
23. Examine cables for broken strands by wiping the cable along the length of the cable. Visually check for damage. Replace all damaged cables. Refer to latest revision of Advisory Circular 43.13.
24. Piper Service Bulletin 884 compliance requires lock wiring of V-band couplings.
25. Latest models, S/N's 2837001 (PA-28R-201) and S/N's 2803001 (PA-28R-201T) are equipped with auxiliary electric backup vacuum systems that require replacement after 500 hours of operation time.
26. Piper Service Bulletin 896 compliance requires installation and usage of shoulder harnesses.
27. Refer to latest revision of Piper Service Bulletin 866a. Aircraft S/N's 2837001 (PA-28R-201) and up, and S/N's 2803001 (PA-28R-201T) and up, have no backup extender system in the landing gear system installed as standard equipment.
28. When servicing or inspecting vendor equipment installed in Piper aircraft, it is the user's responsibility to refer to the applicable vendor service publications.
29. Ensure after cleaning engine that all rod end bearings are lubricated with at least 3 drops of 100W motor oil.

Signature of Mechanic or Inspector

Certificate No.:

Date

Total Time On Airplane: