

PIPER AIRCRAFT CORPORATION

INSPECTION REPORT

THIS FORM MEETS REQUIREMENTS OF FAR PART 43

Make PIPER TRI-PACER AND CARIBBEAN	Model PA-22-125, PA-22-135 PA-22-150, PA-22-160	Serial No.	Registration No.
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Circle Type of Inspection (SEE NOTE 1, PAGE 3)	50	100	500	1000	Inspector	Perform inspection or operation at each of the inspection intervals as indicated by a circle (○).	50	100	500	1000	Inspector
DESCRIPTION						DESCRIPTION					
A. PROPELLER GROUP											
1. Inspect spinner and black plate	○	○	○	○		21. Remove air filter and clean (Refer to Owner's Handbook.) (Replace as required.)	○	○	○	○	
2. Inspect blades for nicks and cracks	○	○	○	○		22. Drain carburetor and clean inlet line fuel strainer	○	○	○	○	
3. Check for grease and oil leaks	○	○	○	○		23. Check condition of carburetor heat air door and box	○	○	○	○	
4. Lubricate propeller per lubrication chart.	○	○	○	○		24. Check intake seals for leaks and clamps for tightness	○	○	○	○	
5. Check spinner mounting brackets	○	○	○	○		25. Remove, drain and clean fuel filter bowl and screen (Drain and clean at least every 90 days.)	○	○	○	○	
6. Check propeller mounting bolts and safety (Check torque if safety is broken.)	○	○	○	○		26. Check condition of flexible fuel and primer lines	○	○	○	○	
7. Inspect hub parts for cracks and corrosion	○	○	○	○		27. Replace flexible fuel lines (SEE NOTE 2).	○	○	○	○	
8. Rotate blades of constant speed propeller and check for tightness in hub pilot tube	○	○	○	○		28. Check fuel system for leaks	○	○	○	○	
9. Remove constant speed propeller, remove sludge from propeller and crankshaft	○	○	○	○		29. Check venturi or vacuum pump, lines and separator	○	○	○	○	
10. Overhaul propeller	○	○	○	○		30. Overhaul or replace vacuum pump (SEE NOTE 2)	○	○	○	○	
B. ENGINE GROUP											
CAUTION: Ground Magneto Primary Circuit before working on engine.											
1. Remove engine cowl	○	○	○	○		31. Check throttle, carburetor heat, and mixture controls for travel and operating condition	○	○	○	○	
2. Clean and check cowling for cracks, distortion and loose or missing fasteners	○	○	○	○		32. Inspect exhaust stacks, connections and gaskets (Replace exhaust gaskets as required.)	○	○	○	○	
3. Drain oil sump	○	○	○	○		33. Inspect muffler, heat exchanger and baffles (Refer to Piper Service Letter No. 324B.)	○	○	○	○	
4. Clean suction oil strainer at oil change (Check strainer for foreign particles.)	○	○	○	○		34. Check exhaust stack braces.	○	○	○	○	
5. Clean pressure oil strainer (Check strained for foreign particles.)	○	○	○	○		35. Check breather tube for obstructions and security	○	○	○	○	
6. Check oil temperature sender unit for leaks and security	○	○	○	○		36. Check crankcase for cracks, leaks and security of seam bolts	○	○	○	○	
7. Check oil lines and fittings for leaks, security, chafing, dents and cracks.	○	○	○	○		37. Check engine mounts for cracks and loose mountings	○	○	○	○	
8. Clean and check oil radiator cooling fins for damage	○	○	○	○		38. Check all engine baffles for damage and security	○	○	○	○	
9. Remove and flush oil radiator	○	○	○	○		39. Check rubber engine mount bushings for deterioration (Refer to Piper Service Letter No. 223.) (See Note 3.)	○	○	○	○	
10. Fill engine with oil per lubrication chart	○	○	○	○		40. Check condition of firewall seals	○	○	○	○	
11. Clean engine	○	○	○	○		41. Check condition and tension of generator drive belt.	○	○	○	○	
12. Check condition of spark plugs (Clean and adjust gap as required, adjust per Lycoming Service Instruction No. 1042.)	○	○	○	○		42. Check condition of generator and starter.	○	○	○	○	
13. Check ignition harness and insulators (High tension leakage and continuity.)	○	○	○	○		43. Lubricate all controls	○	○	○	○	
14. Check magneto points for proper clearance - Maintain clearance at 0.018 ± 0.006	○	○	○	○		44. Complete overhaul of engine or replace with factory rebuilt (SEE NOTE 2)	○	○	○	○	
15. Check magneto for oil seal leakage	○	○	○	○		45. Reinstall engine cowl	○	○	○	○	
16. Check breaker felts for proper lubrication	○	○	○	○							
17. Check distributor block for cracks, burned areas or corrosion, and height of contact springs	○	○	○	○							
18. Check magnetos to engine timing	○	○	○	○							
19. Overhaul or replace magnetos (SEE NOTE 2, PAGE 3)	○	○	○	○							
20. Check valve clearance at 0.010 on O-290-D engine only (Adjust per Lycoming Service Instruction No. 1068)	○	○	○	○							

Owner: _____

Circle Type of Inspection (SEE NOTE 1, PAGE 3)					Inspector	Perform inspection or operation at each of the inspection intervals as indicated by a circle (○).				
50	100	500	1000	Annual		50	100	500	1000	Inspector
DESCRIPTION						DESCRIPTION				
C. CABIN GROUP						E. WING GROUP				
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D. FUSELAGE AND EMPENNAGE GROUP						F. LANDING GEAR GROUP				
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Circle Type of Inspection (SEE NOTE 1, PAGE 3) 50 100 500 1000 Annual	50	100	500	1000	Inspector	Perform inspection or operation at each of the inspection intervals as indicated by a circle (○).	50	100	500	1000	Inspector
F. LANDING GEAR GROUP (cont)						H. OPERATIONAL INSPECTION					
7. Check nose gear alignment, steering control and travel		○	○	○		1. Check fuel tank selector	○	○	○	○	
8. Check shimmy dampener for alignment and operation		○	○	○		2. Check fuel quantity	○	○	○	○	
9. Check nose gear oleo strut for proper extension (3.5 in.) (Check for proper fluid level as required.)	○	○	○	○		3. Check oil pressure and temperature	○	○	○	○	
10. Check nose gear oleo strut for fluid leaks and scoring		○	○	○		4. Check generator output	○	○	○	○	
11. Check nose gear struts, attachments, torque links, and bolts and bushings for condition and security		○	○	○		5. Check carburetor heat	○	○	○	○	
12. Replace torque link and steering horn bolts and bushings		○	○	○		6. Check parking brake	○	○	○	○	
13. Check tires for cuts, uneven or excessive wear and slippage.		○	○	○		7. Check vacuum gauge	○	○	○	○	
14. Remove wheels, clean, check and repack bearings		○	○	○		8. Check gyros for noise and roughness	○	○	○	○	
15. Check wheels for cracks, corrosion and broken bolts		○	○	○		9. Check cabin heater operation	○	○	○	○	
16. Check tire pressure (Nose-15 psi / Main-22 psi)	○	○	○	○		10. Check magneto switch operation.	○	○	○	○	
17. Check brake lining and disc for excessive wear		○	○	○		11. Check magneto RPM variation	○	○	○	○	
18. Check brake lines for chafing and security		○	○	○		12. Check throttle and mixture operation	○	○	○	○	
19. Check brake cylinders, and parking valve for operation and leaks (Check fluid level as required.)	○	○	○	○		13. Check propeller smoothness.	○	○	○	○	
20. Lubricate per lubrication chart.	○	○	○	○		14. Check propeller governor action (constant speed)	○	○	○	○	
21. Reinstall fairings		○	○	○		15. Check electronic equipment operation	○	○	○	○	
						16. Check engine idle	○	○	○	○	
G. FLOAT GROUP						I. GENERAL					
1. Check float attachment fittings		○	○	○		1. Aircraft conforms to FAA Specifications	○	○	○	○	
2. Check floats for damage		○	○	○		2. All FAA Airworthiness Directives complied with	○	○	○	○	
3. Check pulleys and cables		○	○	○		3. All Manufacturers Service Letters and Bulletins complied with	○	○	○	○	
						4. Check for proper Flight Manual.	○	○	○	○	
						5. Aircraft papers in proper order.	○	○	○	○	

NOTES:

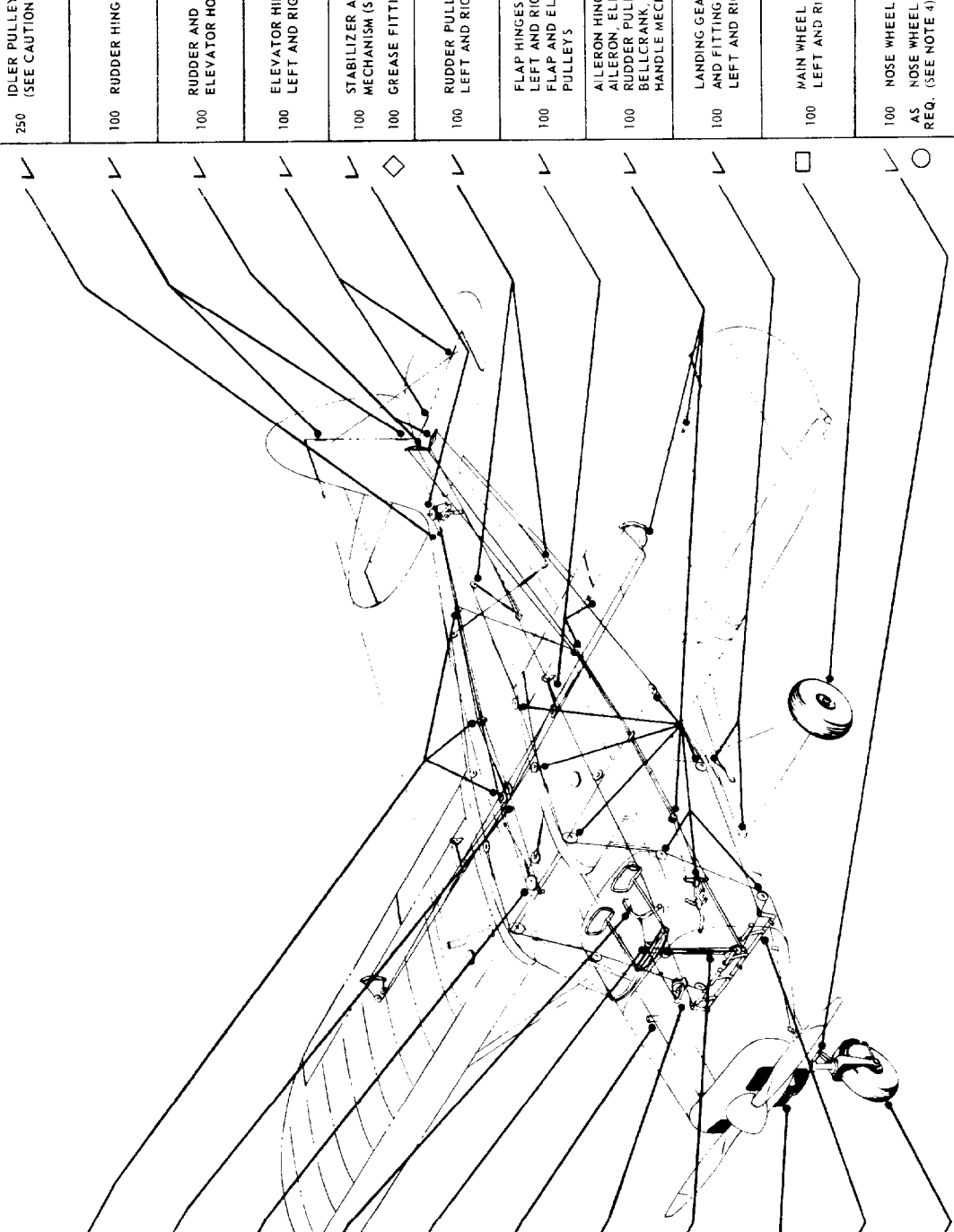
1. Both the annual and 100 hour inspections are complete inspections of the airplane - identical in scope. Inspections must be accomplished by persons authorized by FAA.
2. Replace or overhaul as required or at engine overhaul. (For engine overhaul, refer to Lycoming Service Instructions No. 1009.)
3. It is recommended that all engine mount rubber bushings be replaced every five hundred hours.

REMARKS:

Signature of Mechanic or Inspector	Certificate No.	Date	Total Time on Airplane
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LUBRICATION CHART

HOURS	LUBRICANT	LUBRICANT	HOURS
250	STABILIZER AND FLAP PULLEYS (SEE CAUTION 3)	✓	250
250	FLAP PULLEYS LEFT AND RIGHT	✓	100
250	STABILIZER ADJUSTMENT PULLEY (SEE CAUTION 3)	✓	100
100	PARKING BRAKE	✓	100
100	PARKING BRAKE PULLEY	✓	100
50	ENGINE OIL SUMP, DRAIN AND REFILL	ENGINE	100
50	BRAKE RESERVOIR	○	100
100	CONTROL COLUMN	✓	100
50	CARBURETOR AIR FILTER (SEE NOTE 1)	○	100
100	RUDDER PEDAL BEARINGS	✓	100
100	NOSE WHEEL BEARING	○	100
250	IDLER PULLEYS (SEE CAUTION 3)	✓	100
100	RUDDER HINGES	✓	100
100	RUDDER AND ELEVATOR HORNS	✓	100
100	ELEVATOR HINGES LEFT AND RIGHT	✓	100
100	STABILIZER ADJUSTMENT MECHANISM (SEE CAUTION 3)	◇	100
100	GREASE FITTING	✓	100
100	RUDDER PULLEYS LEFT AND RIGHT	✓	100
100	FLAP HINGES - LEFT AND RIGHT FLAP AND ELEVATOR PULLEYS	✓	100
100	AILERON HINGES AND HORNS RUDDER PULLEYS-ELEVATOR BELLCRANK HORN AND FLAP HANDLE MECHANISM	✓	100
100	LANDING GEAR HINGES AND FITTINGS LEFT AND RIGHT	✓	100
100	MAIN WHEEL BEARING LEFT AND RIGHT	○	100
100	NOSE WHEEL TORQUE LINKS AS NOSE WHEEL GEAR REQ. (SEE NOTE 4)	○	100



LEGEND

- ◇ MIL-G-23827 GREASE, AIRCRAFT AND INSTRUMENT GEAR AND ACTUATOR SCREW
- ✓ MIL-L-7870 OIL-GENERAL PURPOSE LOW TEMP. LUBRICATION
- MIL-L-3545 GREASE-LUBRICATION HIGH TEMPERATURE
- MIL-H-5606 HYDRAULIC FLUID (RED)
- ENGINE SAE 50 ABOVE 60° F AIR TEMP
SAE 40 BETWEEN 30° F AND 90° F AIR TEMP
SAE 30 BETWEEN 0° F AND 70° F AIR TEMP
SAE 20 BELOW 10° F AIR TEMP

NOTES

1. CARBURETOR AIR FILTER-CLEAN PER MANUFACTURER'S INSTRUCTIONS ON FILTER BOX OR INSTRUCTIONS IN OWNER'S HANDBOOK. (UNDER ABNORMAL CONDITIONS, FILTER REQUIRES CLEANING MORE FREQUENTLY. REPLACE AS REQUIRED.)
2. LUBRICATION POINTS - WIPE ALL LUBRICATION POINTS CLEAN OF OLD GREASE, OIL DIRT, ETC. BEFORE RELUBRICATING.
3. WHEEL BEARING REQUIRES CLEANING AND REPACKING AFTER EXPOSURE TO AN ABNORMAL QUANTITY OF WATER.
4. NOSE WHEEL GEAR - FOLLOW INSTRUCTION PLACARD ON MOUNT OR INSTRUCTIONS IN OWNER'S HANDBOOK.

CAUTIONS

1. DO NOT USE A HYDRAULIC FLUID WITH A CASTER OIL OR ESTER BASE.
2. DO NOT APPLY LUBRICANT TO RUBBER PARTS.
3. TRIM CABLES - UNDER NO CIRCUMSTANCES SHOULD THE TRIM CABLES FROM THE COCKPIT TO THE REAR OF THE FUSELAGE BE LUBRICATED. (TO PREVENT SLIPPAGE)
4. CONTROL CABLES - WIPE CLEAN AT REGULAR INTERVALS BUT DO NOT LUBRICATE. UNDER SALT WATER CONDITIONS OCCASIONAL LUBRICATION WITH MIL-L-7870 IS RECOMMENDED.

SEE LYCOMING SERVICE INSTRUCTIONS NO. 1014 FOR USE OF DEFERENT OIL.