PIPER AIRCRAFT CORPORATION

INSPECTION REPORT

THIS FORM MEETS REQUIREMENTS OF FAR PART 43

Make	Model	Serial No.	Registration No.
PIPER COLT	PA-22-108		

Circle Type of Inspection (SEE NOTE 1, PAGE 3)
50 100 500 1000 Annual

Perform all inspections or operations at each of the inspection intervals as indicated by a circle (O).

DESCRIPTION	50	100	500	1000	Inspector
A. PROPELLER GROUP					
1. Inspect spinner and back plate for damage and security	O	O	O	O	
2. Inspect blades for nicks and cracks	O	O	O	O	
3. Inspect spinner mounting brackets for damage and security	O	O	O	O	
4. Inspect propeller mounting bolts and safety (Check torque if safety is broken)		O	O	O	
B. ENGINE GROUP					
CAUTION: Ground Magneto Primary Circuit before working on engine.					
1. Remove engine cowl		O	O	O	
2. Clean and inspect cowling for cracks, distortion and loose or missing fasteners		O	O	O	
3. Drain oil sump (See Note 7)	O	O	O	O	
4. Clean suction oil strainer at oil change (Inspect strainer for foreign particles)	O	O	O	O	
5. Clean pressure oil strainer (Inspect strainer for foreign particles)	O	O	O	O	
6. Inspect oil temperature sender unit for leaks and security		O	O	O	
7. Inspect oil lines and fittings for leaks, security, chafing, dents and cracks (See Note 6)		O	O	O	
8. Fill engine with oil per lubrication chart	O	O	O	O	
9. Clean engine		O	O	O	
10. Inspect condition of spark plugs (Clean and adjust gap as required, adjust per Lycoming Service Instruction No. 1042) (See Note 8)		O	O	O	
11. Inspect ignition harness and insulators (High tension leakage and continuity)		O	O	O	
12. Check magneto points for proper clearance - Maintain clearance at 0.018 ± 0.006		O	O	O	
13. Inspect magneto for oil seal leakage		O	O	O	
14. Inspect breaker felts for proper lubrication		O	O	O	
15. Inspect distributor block for cracks, burned areas or corrosion, and height of contact springs		O	O	O	
16. Check magnetos to engine timing		O	O	O	
17. Overhaul or replace magnetos (See Note 5)		O	O	O	
18. Check valve clearance and adjust in accordance with Lycoming Service Instructions No. 1068		O	O	O	
19. Remove air filter and clean (Refer to Owner's Handbook) (Replace as required)		O	O	O	
20. Drain carburetor and clean inlet line fuel strainer		O	O	O	
21. Inspect condition of carburetor heat air door and box		O	O	O	
22. Inspect intake seals for leaks and clamps for tightness		O	O	O	
23. Remove, drain and clean fuel filter bowl and screen (Drain and clean at least every 90 days)	O	O	O	O	
24. Inspect condition of flexible fuel and primer lines		O	O	O	
25. Replace flexible fuel lines				O	
26. Inspect fuel system for leaks		O	O	O	
27. Inspect venturi or vacuum pump, lines and separator			O	O	O
28. Overhaul or replace vacuum pump (See Note 5)					O
29. Inspect throttle, carburetor heat, and mixture controls for travel and operating condition			O	O	O
30. Inspect exhaust stacks, connections and gaskets (Replace exhaust gaskets as required			O	O	O
31. Inspect muffler, heat exchanger and baffles			O	O	O
32. Inspect exhaust stack braces			O	O	O
33. Inspect breather tube for obstructions and security			O	O	O
34. Inspect crankcase for cracks, leaks and security of seam bolts			O	O	O
35. Inspect engine mounts for cracks and loose mountings			O	O	O
36. Inspect all engine baffles for damage and security			O	O	O
37. Inspect rubber engine mount bushings for deterioration (Replace at 500 hours)			O	O	O
38. Inspect condition of firewall seals			O	O	O
39. Inspect condition and tension of generator drive belt			O	O	O
40. Inspect condition of generator and starter			O	O	O
41. Lubricate all controls			O	O	O
42. Complete overhaul of engine or replace with factory rebuilt (See Note 5)					O
43. Reinstall engine cowl			O	O	O
C. CABIN GROUP					
1. Inspect cabin entrance, door, latch and windows for damage and operation			O	O	O
2. Inspect all plexiglas for cracks			O	O	O
3. Inspect upholstery for tears			O	O	O
4. Inspect seats, seat belts, security brackets and bolts			O	O	O
5. Inspect trim operation and adjustment			O	O	O
6. Inspect rudder pedals			O	O	O
7. Inspect control yoke, chain, pulleys and cables			O	O	O
8. Check controls for ease of operation			O	O	O
9. Inspect battery, box and cables (Inspect at least every 30 days. Flush box as required and fill battery per instructions on box)	O	O	O	O	
10. Check landing, navigation, cabin and instrument lights			O	O	O
11. Inspect fuse box for burned out fuses			O	O	O
12. Inspect instruments, lines and attachments			O	O	O
13. Inspect gyro operated instruments and electric turn and bank (Overhaul or replace as required)			O	O	O
14. Replace filters on gyro horizon and directional gyro or replace central air filter			O	O	O
15. Clean or replace vacuum regulator filter			O	O	O
16. Inspect altimeter (Calibrate altimeter system in accordance with FAR 91.170, if appropriate)			O	O	O
17. Inspect operation of fuel selector valve			O	O	O

Owner:

Continued on reverse side

Circle Type of Inspection (SEE NOTE 1, PAGE 3) 50 100 500 1000 Annual — DESCRIPTION	50	100	500	1000	Inspector
C. CABIN GROUP (cont)					
18. Remove, drain and clean auxiliary fuel tank filter bowl and screen (Drain and clean at least every 90 days)	O	O	O	O	
19. Inspect condition of heater control and duct		O	O	O	
20. Inspect condition and operation of air vents		O	O	O	
D. FUSELAGE AND EMPENNAGE GROUP					
1. Remove inspection plates and panels		O	O	O	
2. Inspect fabric and finish for cracks and deterioration (If condition of fabric is doubtful, refer to CAM 18 or FAA AC 43.13-1. Use strip test method)		O	O	O	
3. Inspect electronic installations for security		O	O	O	
4. Inspect antenna mounts and electric wiring for damaged insulation and security		O	O	O	
5. Inspect rotating beacon for security and operation		O	O	O	
6. Inspect fuel lines for security and damage		O	O	O	
7. Inspect rudder, elevator and stabilizer trim cables, turnbuckles, guides and pulleys for safety, damage, corrosion and operation		O	O	O	
8. Inspect fuselage longerons and stringers for damage		O	O	O	
9. Inspect rudder, stabilator and elevator structures for damage		O	O	O	
10. Inspect rudder attachments and horn for damage		O	O	O	
11. Inspect rudder hinge pins and bushings for excess wear and corrosion (Replace pins and/or bushings as required)		O	O	O	
12. Inspect stabilizer yoke and screw for end play and security		O	O	O	
13. Inspect stabilizer attachments and attachment tube for side play		O	O	O	
14. Inspect stabilizer brace wires for corrosion, tightness and safety		O	O	O	
15. Inspect elevator attachment and horn for damage		O	O	O	
16. Inspect elevator hinge pins and bushings for excess wear and corrosion (Replace pins and/or bushings as required)		O	O	O	
17. Lubricate per lubrication chart		O	O	O	
18. Reinstall inspection plates and panels		O	O	O	
E. WING GROUP					
1. Remove inspection plates and fairings		O	O	O	
2. Inspect fabric and finish for cracks, and deterioration (If condition of fabric is doubtful, refer to CAM 18 or FAA AC 43.13-1. Use strip test method)		O	O	O	
3. Inspect fuel tank(s) and lines for damage, leaks and water, and seals for deterioration		O	O	O	
4. Fuel tank(s) marked for capacity		O	O	O	
5. Fuel tank(s) marked for minimum octane rating		O	O	O	
6. Inspect aileron cables, turnbuckles, guides and pulleys for safety, damage, corrosion and operation		O	O	O	
7. Inspect wing attachment bolts for security		O	O	O	
8. Inspect lift and jury struts for security		O	O	O	
9. Inspect lift strut forks for damage (Replace as required)		O	O	O	
10. Inspect aileron and wing structure for damage		O	O	O	

Perform all inspections or operations at each of the inspection intervals as indicated by a circle (O). — DESCRIPTION	50	100	500	1000	Inspector
11. Inspect aileron attachments and brackets for tightness and damage		O	O	O	
12. Inspect aileron hinge pins and blocks for excess wear and corrosion (Replace pins and blocks as required)		O	O	O	
13. Lubricate per lubrication chart		O	O	O	
14. Reinstall inspection plates and fairings		O	O	O	
F. LANDING GEAR GROUP					
1. Remove fairings		O	O	O	
2. Inspect fabric and finish for cracks and deterioration		O	O	O	
3. Inspect gear and shock strut bolts and nuts for safety		O	O	O	
4. Hoist airplane, inspect gear and shock strut bolts and bushings for excess wear and corrosion (Replace bolts and/or bushings as required)		O	O	O	
5. Inspect shock cords for broken threads and weakness, and shock struts for weakness (Replace cords and/or shock struts as necessary)		O	O	O	
6. Check main wheel alignment (0° Toe in - Toe out)			O	O	
7. Inspect nose gear alignment, steering control and travel		O	O	O	
8. Inspect shimmy dampener for alignment and operation		O	O	O	
9. Inspect nose gear oleo strut for proper extension (3.5 in.) (Inspect for proper fluid level as required)	O	O	O	O	
10. Inspect nose gear oleo strut for fluid leaks and scoring		O	O	O	
11. Inspect nose gear struts, attachments, torque links, and bolts and bushings for condition and security		O	O	O	
12. Replace torque link and steering horn bolts and bushings		O	O	O	
13. Inspect tires for cuts, uneven or excessive wear and slippage		O	O	O	
14. Remove wheels, clean, inspect and repack bearings		O	O	O	
15. Inspect wheels for cracks, corrosion and broken bolts		O	O	O	
16. Check tire pressure (N - 15 psi/Main - 22 psi)	O	O	O	O	
17. Inspect brake lining and disc for excessive wear		O	O	O	
18. Inspect brake lines for chafing and security		O	O	O	
19. Inspect brake cylinders, and parking valve for operation and leaks (Check fluid level as required)	O	O	O	O	
20. Lubricate per lubrication chart	O	O	O	O	
21. Reinstall fairings		O	O	O	
G. OPERATIONAL INSPECTION					
1. Check fuel tank selector	O	O	O	O	
2. Check fuel quantity	O	O	O	O	
3. Check oil pressure and temperature	O	O	O	O	
4. Check generator output	O	O	O	O	
5. Check carburetor heat	O	O	O	O	
6. Check parking brake	O	O	O	O	
7. Check vacuum gauge	O	O	O	O	
8. Check gyros for noise and roughness	O	O	O	O	

Circle Type of Inspection (SEE NOTE 1, PAGE 3) 50 100 500 1000 Annual — DESCRIPTION	50	100	500	1000	Inspector
G. OPERATIONAL INSPECTION (cont)					
9. Check cabin heater operation	O	O	O	O	
10. Check magneto switch operation	O	O	O	O	
11. Check magneto RPM variation	O	O	O	O	
12. Check throttle and mixture operation	O	O	O	O	
13. Check propeller smoothness	O	O	O	O	
14. Check electronic equipment operation	O	O	O	O	
15. Check engine idle	O	O	O	O	
H. GENERAL					
1. Aircraft conforms to FAA Specifications	O	O	O	O	
2. All FAA Airworthiness Directives complied with	O	O	O	O	
3. All Manufacturers Service Letters and Bulletins complied with	O	O	O	O	
4. Check for proper Flight Manual	O	O	O	O	
5. Aircraft papers in proper order	O	O	O	O	

Perform all inspections or operations at each of the inspection intervals as indicated by a circle (O). — DESCRIPTION	50	100	500	1000	Inspector

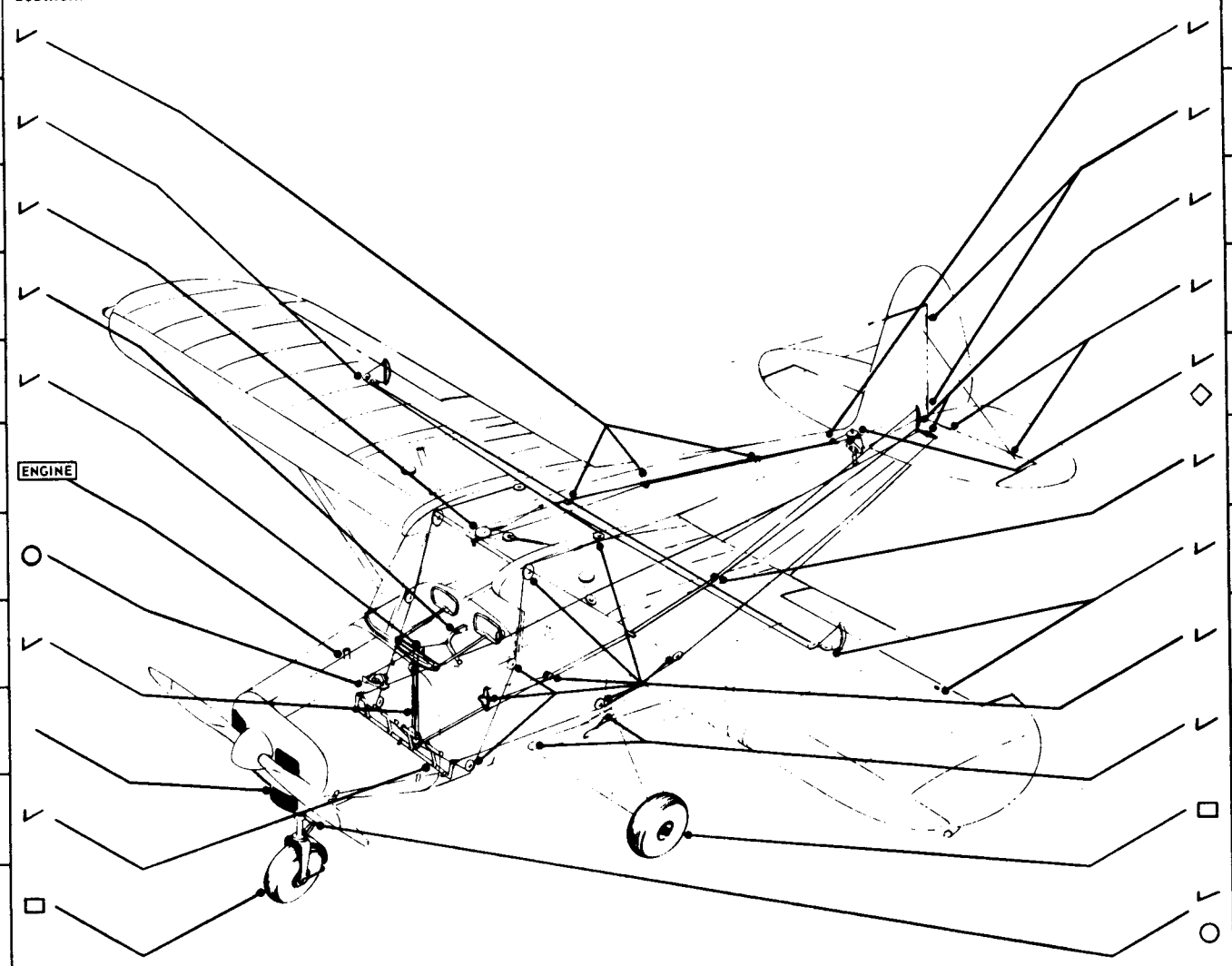
NOTES:

1. Refer to the last card of the Piper - Parts Price List - Aerofiche, for a check list of current revision dates to Piper Inspection Reports and Manuals.
2. All inspections or operations are required at each of the inspection intervals as marked by a (O). Both the annual and 100 hour inspections are complete inspections of the airplane, identical in scope, while both the **500 and 1000** hour inspections are extensions of the annual or 100 hour inspection, which require a more detailed examination of the airplane, and overhaul or replacement of some major components. Inspections must be accomplished by persons authorized by the FAA.
3. Piper Service Bulletins are of special importance and must be complied with promptly.
4. Piper Service Letters are product improvements and service hints pertaining to servicing the airplane and should be given careful attention.
5. Replace or overhaul as required or at engine overhaul. (For engine overhaul, refer to the latest revision of Lycoming Service Instructions No. 1009.)
6. Replace flexible oil lines as required, but no later than 1000 hours of service.
7. Intervals between oil changes can be increased as much as 100% on engines equipped with full flow cartridge type oil filters, provided the element is replaced each 50 hours of operation and the specified octane fuel is used. Should fuel other than the specified octane rating for the power plant be used, refer to Lycoming Service Letter No. L185A for additional information and recommended service procedures.
8. When using other than 80/87 octane rating fuel, refer to Lycoming Service Letter No. L185A for additional information and service procedures.

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

LUBRICATION CHART

	HOURS	LUBRICANT
STABILIZER PULLEYS (SEE CAUTION 3)	250	
AILERON HINGES AND AILERON HORN RIGHT	100	
STABILIZER ADJUSTMENT PULLEY (SEE CAUTION 3)	250	
PARKING BRAKE	100	
PARKING BRAKE PULLEY	100	
ENGINE OIL SUMP, DRAIN AND REFILL (SEE NOTE 6, PAGE 3)	50	ENGINE
BRAKE RESERVOIR	50	
CONTROL COLUMN	100	
CARBURETOR AIR FILTER (SEE NOTE 1)	50	
RUDDER PEDAL BEARINGS	100	
NOSE WHEEL BEARING	100	



LUBRICANT	HOURS	
	250	IDLER PULLEYS (SEE CAUTION 3)
	100	RUDDER HINGES
	100	RUDDER AND ELEVATOR HORNS
	100	ELEVATOR HINGES LEFT AND RIGHT
	100	STABILIZER ADJUSTMENT MECHANISM (SEE CAUTION 3)
	100	GREASE FITTING
	100	ELEVATOR PULLEYS
	100	AILERON HINGES AND AILERON HORN LEFT
	100	RUDDER PULLEYS LEFT AND RIGHT ELEVATOR PULLEYS, BELLCRANK, AND HORN
	100	LANDING GEAR HINGES AND FITTINGS LEFT AND RIGHT
	100	MAIN WHEEL BEARING LEFT AND RIGHT
	100	NOSE WHEEL TORQUE LINKS
	AS REQ.	NOSE WHEEL GEAR (SEE NOTE 4)

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.

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

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

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.