

Circle Type of Inspection (See Note 1, pg 3)					Inspector	Perform all inspections or operations at each of the inspection intervals as indicated by a circle O					
50	100	500	1000	Annual		DESCRIPTION	50	100	500	1000	Inspector
C. CABIN GROUP CONT.											
16 Check altimeter (Calibrate system in accordance with FAR 91,170, if appropriate)							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
17 Check operation of fuel selector valve							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
18 Check operation of heater control & duct							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
19 Check condition & operation of air ducts							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
D. FUSELAGE & EMPENNAGE GROUP											
1 Remove inspection plates & panels							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
2 Check fabric & finish for cracks & deterioration (If condition of fabric is doubtful, refer to FAA AC43.13-1A. Use strip test method.)							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
3 Check battery, box & cables (Check at least every 30 days. Flush box as required & fill battery per instructions on box.)						<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
4 Check electronic installations for security							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5 Check antenna mounts & electric wiring for damaged insulation & security							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
6 Check fuel lines for security & damage							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
7 Check rudder, elevator & stabilizer trim cables, turnbuckles, guides & pulleys for safety, damage, corrosion & operation							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
8 Check fuselage longerons & stringers for damage							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
9 Check rudder, stabilizer & rudder structures for damage							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
10 Check rudder attachments & horn for damage							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
11 Check rudder hinge pins & bushings for excess wear & corrosion (Replace pins and/or bushings as required.)							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
12 Check stabilizer yoke & screw for end play & security							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
13 Check stabilizer attachments & attachment tube for side play							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
14 Check stabilizer brace wires for corrosion, tightness & safety							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
15 Check elevator attachments & horn for damage							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
16 Check elevator hinge pins & bushings for excess wear & corrosion (Replace pins and/or bushings as required.)							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
17 Lubricate per lubrication chart							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
18 Reinstall inspection plates & panels							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
E. WING GROUP											
1 Remove inspection plates & fairings							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
2 Check fabric & finish for cracks & deterioration (If condition of fabric is doubtful, refer to FAA AC43.13-1A. Use strip test method.)							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
3 Check fuel tank(s) & lines for damage, leaks & water, seals for deterioration							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
4 Fuel tanks marked for capacity							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5 Fuel tanks marked for minimum octane rating							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
6 Check aileron & flap cables, turnbuckles, guides & pulleys for safety, damage, corrosion & operation							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
7 Check wing attachment bolts for security							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
8 Check lift & jury struts for security							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
9 Inspect lift strut forks for damage (Replace as required.)							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
F. LANDING GEAR GROUP											
1 Remove fairings							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
2 Check fabric & finish for cracks & deterioration							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
3 Inspect gear, cabane & shock strut bolts & nuts for safety							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
4 Hoist airplane, check gear, cabane & shock strut bolts & bushings for excess wear & corrosion (Replace bolts and/or bushings as required.)							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5 Inspect shock cords for broken threads & weakness, & if applicable, shock struts for weakness (Replace cords and/or shock struts as necessary.)							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
6 Check gear wheel alignment (0 Toe in/out)							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
7 Check tires for cuts, uneven or excessive wear & slippage							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
8 Remove wheels, clean check & repack bearings							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
9 Check wheels for cracks, corrosion & broken bolts							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
10 Check main wheel tire pressure						<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
11 Check brake lining & drums for excessive wear							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
12 Check brake lining & drums for excessive wear							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
13 Check brake cylinders & parking brake valves for operation & leaks (Check fluid level as required.)						<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
14 Check tail wheel attachments for tightness & safety							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
15 Check tail wheel fork for looseness on bracket							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
16 Check tail wheel tire for cuts & uneven or excessive wear							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
17 Remove tail wheel, clean, check & repack bearings							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
18 Check tail wheel for cracks, corrosion & broken bolts							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
19 Check tail wheel tire pressure, if applicable						<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
20 Lubricate per lubrication chart						<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
21 Reinstall fairings							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
G. FLOAT GROUP											
1 Check float attachment fittings							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
2 Check floats for damage							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
3 Check pulleys & cables							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Circle Type of Inspection (See Note 1, pg 3)						Perform all inspections or operations at each of the inspection intervals as indicated by a circle O					
50 100 500 1000 Annual											
DESCRIPTION						DESCRIPTION					
H. AGRICULTURAL GROUP						OPERATIONAL GROUP CONT.					
1 Check oil level - duster gear box						3 Check oil pressure and temperature					
2 Check universal drive joints						4 Check generator output					
3 Check brakes & controls						5 Check carburetor heat					
4 Check grease cups, sprayer fan						6 Check parking brake					
5 Clean hopper tank screen						7 Check vacuum gauge					
6 Check top hopper tank seal						8 Check gyros for noise and roughness					
7 Check bottom hopper tank seal						9 Check cabin heater operation					
8 Remove metal belly plate and clean fuselage						10 Check magneto switch operation					
9 Check duster fan mount assembly						11 Check magneto RPM variation					
10 Check sprayer pump mount assembly						12 Check throttle and mixture operation					
11 Check operation of dump valve						13 Check propeller smoothness					
12 Check agitator operation						14 Check electronic equipment operation					
13 Check for hopper tank leaks						15 Check engine idle					
14 Check spray boom attachments						J. GENERAL					
15 Clean spray nozzles						1 Aircraft conforms to FAA Specifications					
16 Check all plumbing for leaks						2 All FAA Airworthiness Directives complied with					
I. OPERATIONAL GROUP						3 All Manufacturers Service Letters & Bulletins complied with					
1 Check fuel tank selector						4 Check for proper flight manual					
2 Check fuel quantity						5 Aircraft papers in proper order					

Notes:

- All inspections or operations are required at each of the inspections intervals as marked by a (O). Both the annual & 100 hour inspections are complete inspections of the airplane, identical in scope, while both the 500 and 100 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.
- Piper Service Bulletins are of special importance & must be complied with promptly.
- Piper Service Letters are product improvements & service hints pertaining to servicing the airplane & should be given careful attention
- Replace or overhaul as required or at engine overhaul. (For engine overhaul, refer to the latest revision of Lycoming Service Instructions No. 1009.)
- Replace flexible oil lines as required, but no later than 1000 hours of service.
- 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 & 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 & recommended service procedures.
- When using alternate fuels, refer to Lycoming Service Letter No. L185A for additional information & service procedures.

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

LUBRICANT	HOURS			LUBRICANT	HOURS
FLAP PULLEYS	250	✓		✓	250 IDLER PULLEYS (SEE CAUTION 3)
CARBURETOR & CABIN HEAT GUIDE	100	□		100 RUDDER HINGES	
ELEVATOR PULLEYS THROTTLE LEVERS	100	✓		100 RUDDER & ELEVATOR HORNS	
FLAP PULLEY STABILIZER ADJUSTMENT PULLEY (SEE CAUTION 3)	250	✓		100 ELEVATOR HINGES LEFT & RIGHT	
BRAKE MASTER CYLINDERS	50	○		100 TAIL WHEEL BEARING	
CONTROL STICK BEARINGS TORQUE TUBE BEARINGS	100	✓		50 TAIL WHEEL SWIVEL	
ELEVATOR PULLEY	100	✓		100 STABILIZER ADJUSTMENT MECHANISM (SEE CAUTION 3)	
ENGINE OIL SUMP DRAIN AND REFILL (SEE NOTE 6, PAGE 3)	50	ENGINE		100 GREASE FITTING	
CARBURETOR AIR FILTER (SEE NOTE 1)	50	□		100 ELEVATOR & STABILIZER PULLEYS, FLAP HINGE BEARINGS, FLAP CRANK & PUSH ROD BEARINGS (SEE NOTE 4)	
RUDDER PEDAL BEARINGS BRAKE PEDAL BEARINGS FLAP HANDLE BEARINGS FLAP HANDLE RATCHET	100	✓		100 AILERON HINGE BEARINGS AILERON HORN AILERON PULLEYS LEFT & RIGHT (SEE NOTE 4)	
SHOCK STRUT PIVOTS	100	◇		100 AILERON PULLEY RUDDER PULLEY LEFT & RIGHT	
LANDING GEAR WHEEL BEARINGS	100	✓		100 LANDING GEAR HINGES LEFT & RIGHT	

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 ABNORMAL QUANTITY OF WATER.
4. AILERON AND FLAP HINGES-HINGE BLOCKS WITH LUBRICATION HOLES IN THEIR UNDERSIDE MAY BE PRESSURE LUBRICATED WITH GREASE MIL-23827

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 } LYCOMING 0-290-D2 & 0-320 ENG. SAE 30 BETWEEN 0° F AND 70° F AIR TEMP } SAE 20 BELOW 10° F AIR TEMP }
		SAE 20 BELOW 32° F AIR TEMP } CONTINENTAL C90 ENGINE SAE 40 ABOVE 32° 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 CONDITIONS OCCASIONAL LUBRICATION WITH MIL-L-7870 IS RECOMMENDED.