

**ANNUAL TYPE CONDITION INSPECTION**

Model: 320 Serial Number: 503

Registration Number HB-YFR

ENGINE "GROUP A"	50	100	500
1 Check documentation AD's, SB's, SDR's	x	x	x
2 Fuel pressure (auxiliary pump) Light OFF	x	x	x
3 Start-up oil pressure (60 - 90 psi regarding temp.)	x	x	x
4 Run engine @ 1200 RPM until oil temp > 140 F	x	x	x
5 Idle oil pressure min. 25 psi ( depending temp.)	x	x	x
6 Magneto CHECK DROP L/H, R/H @ 2000 RPM	x	x	x
7 Propeller: set 1700 RPM then 2700	x	x	x
8 Alternator: CHECK for proper current supply	x	x	x
9 Full power manifold Pressure 27.5Hg @ 2700 RPM	x	x	x
10 CKECK for gen. Running conditions and vibrations	x	x	x
11 Check idle speed and mixture rise @ RPM	x	x	x
12 Magneto ground CHECK	x	x	x
13 Compression CHECK: CYL. / COMPRESSION 1 / 80, 2 / 80, 3 / 80m 4 / 80		x	x

ENGINE "GROUP B"		50	100	500
1	Drain engine oil	x	x	x
2	Remove oil filter and or screen. and check for contaminates	x	x	x
3	Drain engine breather can if installed Check whistle or shi for obstructions	x	x	x
4	Install new oil filter or replace screen gasket Service engine with recommended quality of oil	x	x	x
5	Clean & gap spark plugs Rotate plugs top to bottom	x	x	x
6	Check ignition harness for chaffing & general condition	x	x	x
17	Check Ignition, engine timing, Hall-sensor condition in accordance with LSE-Maintenance Manual. (EVERY 50h)		x	x
8	Check exhaust system for cracks. Security, and condition of gaskets		x	x
9	Check intake pipes for condition and Leaks		x	x
10	Check condition of air box. Clean or replace air filter element as necessary	x	x	x
11	Check condition of alternate air system and flapper valves	x	x	x
12	Check engine baffles & cowling for gen. condition		x	x
13	Inspect fuel hoses for general condition		x	x
14	Inspect oil cooler / hoses for general condition	x	x	x
15	Replace or clean fuel filter and screens as necessary	x	x	x



16	Check engine vibration isolators for poor condition and deterioration		x	x
17	Check engine mount for cracks and security to firewall		x	x
18	Check engine for oil leaks	x	x	x
19	Check prop gov for Leaks and security and condition of cable end		x	x
20	Check starter for security and condition		x	x
21	Check alternator and mount for security condition of wiring and belt for condition and tension		x	x
22	Check vacuum pump for security and condition		x	x
23	Check tach cable or wiring for security and condition		x	x
24	Wash engine. CAUTION DO NOT CONTAMINATE VACUUM PUMP or INDUCTION SYSTEM WITH FLUID		x	x
25	Lubricate engine controls and check for connections and travel		x	x

PROPELLER "GROUP C"		50	100	500
1	Inspect propeller for cracks, nicks, binds and oil or grease leaks		x	x
2	Remove minor nicks and dress blades as necessary		x	x
3	Check propeller mounting bolts for torque and safety wiring		x	x
4	Check blades for looseness in hub		x	x
5	Inspect spinner, screws and bulkhead for cracks and condition		x	x
6	Lubricate propeller per manufacturer's recommendation		x	x

CABIN "GROUP D"		50	100	500
1	Check seat belts for general condition and defects		x	x
2	Check battery		x	x
3	Check battery vent for security and obstructions		x	x
4	Clean battery cable terminals if required and reinstall battery		x	x
5	Check hydraulic power pack and lines for Leaks, security and fluid level		x	x
6	Check elevator idler arm and bob weight for security, and lubricate rod ends		x	x
7	Inspect. flap motor compartment. rods and motor for proper operation. running current and lubricate		x	x
8	Check aileron. elevator push tubes and trim systems and lubricate rod ends		x	x
9	Check for loose equip't that might foul the controls		x	x
10	Inspect rudder cables, and attachments etc.			
11	Inspect brake master cylinders for leakage, free and full extension and proper operation Check fluid level at the master cylinders		x	x
12	Check condition of Instrument panel, wires, hoses, and vacuum filters		x	x
13	Check compass for fluid level and correction card		x	x
14	Check Instruments for proper markings, general conditions and security		x	x
15	Clean inside of cabin and insure that drain holes are clear		x	x
16	Inspect fuel lines and tank for security and Leaks		x	x
17	Inspect pitot static lines		x	x



<b>FUEL SYSTEM "GROUP E"</b>		<b>50</b>	<b>100</b>	<b>500</b>
1	Check fuel transfer pumps for operation		x	x
2	Check fuel tank filters and sump drains for contaminants	x	x	x
3	Check all fuel vents for security and obstructions	x	x	x
4	Check fuel lines for security, chaffing and leakage	x	x	x
5	Check fuel tanks and caps for leakage, security and placards		x	x
6	Check fuel boost pump for operation, Leaks and security		x	x
7	Check fuel shut-off valve for operation and Leakage		x	x
<b>LANDING GEAR "GROUP F"</b>		<b>50</b>	<b>100</b>	<b>500</b>
1	Place aircraft on jacks		x	x
2	Clean excess grease off gear legs, struts, and wheels		x	x
3	Check brake discs and linings for wear or cracks		x	x
4	Check wheels for general condition and cracks		x	x
5	Check tires for wear, condition, and proper inflation		x	x
6	Check wheel bearings for corrosion wear, re-pack with grease		x	x
7	Check main gear trailing beams and bolts for wear		x	x
8	Check main gear weldment for fore and aft end play		x	x
9	Check compression assemblies and bolts for wear (disassembly required)		x	x
10	Check nose gear drag link at the knee for wear or hole elongation (disassembly required)		x	x
11	Check nose gear gas spring for 100# minimum to compress		x	x
12	Retract the gear checking for wear and freedom of movement of all bearings of gear and drag strut assembly. Lubricate all moving points. Check pressure within limits		x	x
13	Check gear doors for fit and security. Lubricate pivot points and rods		x	x

	<b>50</b>	<b>100</b>	<b>500</b>
14	Free fall the gear using the dump valve. Check for freedom of movement and over centering of links. Check gear using power pack and check pressure down within limits	x	x
15	Check nose oleo shimmy damper for proper resistance to movement	x	x
16	Check nose gear oleo for condition and leakage. Inflate nose gear oleo to specified psi unloaded, or strut extension loaded	x	x
17	Check nose gear operation when wheel is at slight turning radius and tire or tang do not hang up when gear is retracted	x	x
18	Check operation of gear position lights and switches	x	x
19	Check all gear actuators and sequence valves for proper operation and leakage	x	x
20	Check gear switch is down and dump valve closed.	x	x

EMPENAGE "GROUP G"		50	100	500
1	Remove exterior inspection covers. Inspect for security and wear and lubricate torque tubes, cables and bell cranks. Reinstall inspection covers		x	x
2	Inspect rudder hinges and rudder attachment pin and safetied		x	x
3	Inspect trim tabs, elevator hinges, and lubricate		x	x

**FLIGHT CONTROLS DISPLACEMENT**

ELEVATOR	Down	14°
	UP	27°
RUDDER	Right	30°
	Left	25°
AILERONS	High	22°
	Low	17°
FLAPS	-10° - 40°	

Wing bolts torque: 600 in\*lb