

Date:			Inspector:		
Serial No.:			Mechanic:		
as specified	each 50 hours	each 100 hours	Inspections		
			Engine compartment		
			(Refer to latest edition of Textron Lycoming Operator's Manual and SB's, of Christen Product Manual 801 Series and SB's, of Slick Magneto Maintenance and Overhaul Manual and SB's and of TCM/Bendix Service Support Manual, included in Form X40000 Master Service Manual and SB's)		
DANGER			Ground magneto primary circuit before working on engine		
	O	O	1	Remove engine cowling.	
	O	O	2	Inspect cowling and air inlet screen for damage, cracks, distortion, overheated areas and loose or missing blindnuts and secure attachment of oil level access plate.	
	O	O	3	After this inspection clean cowling.	
	O	O	4	Check fire protection according to EXTRA Service Bulletin 300-6-94. On GFRP cowlings repaint the fire protection paint ("WIEDOFLUGAT" Brandschutzfarbe N 56582 / T508) if necessary .	
	O ¹	O	O	5	Drain oil sump in accordance with Chapter 12-10-04 "Engine Oil Replenishing"
	O ¹	O	O	6	Clean and inspect oil screen filter
	O ¹	O	O	7	Clean suction oil strainer at oil change (check strainer for foreign particles).
	O ¹	O	O	8	Clean pressure oil strainer (check for foreign particles)
	O ²	O	O	8a	Change full flow (cartridge type, AEIO-540-L1B5/D engine) oil filter element (check element for foreign particles).
		O		9	Inspect oil temperature sensor unit for leaks and security.
	O	O	10	Inspect flexible oil lines, oil return lines and fittings for leaks, security, chafing, dents, and cracks (ref: FAAAC 43.13-1A). Replace flexible oil lines at engine TBO per Lyc. SB 240. Check fire protection according to EXTRA SB 300-6-94.	
		O	11	Clean and inspect oil radiators and attachment.	

1 at 10 and 25 hours and then each 25 hours

2 at 10 and 25 hours

2 each 500 hours

			Date:	Inspector:
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<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">as specified</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">each 50 hours</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">each 100 hours</div> </div>			Inspections	
			O ³	
	O	O		Inspect Christen Inverted Oil System for general condition, leaks, secure mounting and tight connections.
O ¹			13	Clean and flush the Inverted Oil System with a suitable petroleum solvent, such as varsol according to Lycoming Operator's Manual.
O ²	O	O	14	Service engine with recommended lubricating oil in accordance with Chapter 12-10-04.
	O	O	15	Inspect condition of spark plugs (Clean and adjust gap as required, adjust per Lycoming Service Instruction 1042). If fouling of spark plugs has been apparent, rotate bottom plugs to upper plugs and vice versa.
	O	O	16	Inspect spark plug cable leads and ceramics for corrosion and deposits.
	O	O	17	Perform a hot engine differential compression check in accordance with FAAAC 43.13-1A.
		O	18	Inspect cylinders for cracked or broken fins.
	O	O	19	Check cylinders for evidence of excessive heat which is indicated by discoloration.
		O	20	Check fuel injector nozzles for looseness. Tighten to 60 inch pounds torque. Check fuel lines for fuel stains which are indicative for fuel leaks.
	O	O	21	Inspect rocker box covers for evidence of oil leaks. If found, replace gasket; torque cover screws 50 Inch-pounds.
O ³			22	Remove 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 valve tips, valve keeper, springs and spring seats.
		O	23	Inspect ignition harness for general condition, free from fraying or chafing and insulators for high tension leakage and continuity.

1 each 300 hours
2 each 25 hours
3 each 400 hours

05-50-03

Engine Fire

After an engine fire, perform a check as described in the following:

For damage evaluation consult the manufacturer, before the aircraft is put back into service.

Date:		Inspector:	
Serial No.:		Mechanic:	
Inspections			
O	1 Check all cables and hoses, replace when necessary		
O	2 Check engine according to the Lycoming Manual		
O	3 Check fire wall and engine cowling for damage by high temperatures (e.g. signs of blisters on the protective paint) On GFRP cowlings repaint the fire protection paint ("WIEDOFLUGAT" Brandschutzfarbe N 56582 / T508) if necessary.		

05-50-04

Lightning Strike

In the event of a lightning strike in flight or on ground check the following:

Date:		Inspector:	
Serial No.:		Mechanic:	
Inspections			
O	1 Check engine according to Lycoming Service Bulletin 401.		
O	2 Check the skin of the strike area for burns and melting		
O	3 Inspect bolts and fasteners for burns and melting .		
O	4 Check the electrical system, with running engine, for correct operation.		
O	5 Check the avionic and antenna for correct operation.		
O	6 Check the magnetic compass for correct readings.		

CAUTION

Never polish plexiglass dry!

Dull or scratched canopy sections can be returned to their transparent state by treating with especially formulated plexiglass cleaning agents.

12-20-02

Interior Cleaning

Prior the first acrobatic flight of the day it is recommended to clean the interior with a vacuum cleaner to remove dust and loose dirt. If liquid is spilled on the cockpit floor, blot it up promptly with cleansing tissue or rags. Continue blotting until no more liquid is taken up.

CAUTION

Never use gasoline, benzine, alcohol, acetone, carbon tetrachloride, fire extinguisher fluid, anti-ice fluid, lacquer thinner, or glass cleaner to clean the canopy. These materials will damage the canopy and may cause severe crazing.

12-20-03

Engine Cleaning

Accumulation of dirt and oil within the engine compartment creates a fire hazard and hampers inspection. All cleaning operations have to be performed in well ventilated work areas, and it is ensure that adequate fire-fighting and safety equipment is available.

The engine is cleaning as follows:

- 1 Allow the engine after running to cool before cleaning.
- 2 **The magnetos, alternator, starter, the air inlets and the engine cowling (the inside of the engine cowling is covered with water soluble fire protection paint (CFRP cowlings up to SN 1039 and GFRP cowlings)) must be protected against cleaning agents.**
- 3 Wash down engine compartment using a nonflammable engine cleaning agent.

CAUTION