LAA FACTORY-BUILT GYROPLANE CHECK FLIGHT SCHEDULE - FBG/FT-1

Registration: G -	Aircraft Type:
This schedule is to be completed by recording va the questions appropriately, and adding any rele units as used on the Permit to Fly documents. Ar investigated and resolved prior to signing and	mes be within the Conditions of the Permit to Fly. lues in spaces indicated or otherwise responding to vant comments. Please enter data using the same by anomalous results are unacceptable and must be returning this Check Flight Schedule. The prime of the event of conflict the POH should be taken as
250 hours on gyroplanes, including 5 hours P1 wi	o perform this Check Flight is a qualified pilot with thin the last twelve months. Also acceptable is any s qualified to instruct on the type in question,
Check Pilot's Pre-Flight Declaration (*delete	as appropriate)
Insurance requirements satisfied:	YES/NO*
Permit Flight Release Certificate signed (if require	ed): YES/NO/Not required*
Total hours in gyros: hours in last 12	months: Current Instructor:YES/NO*
in which the issue(s) has been resolved. Do not	res discovered on the Check Flight, and the manner complete the Post-Flight Declaration below unless solved. Please add any other comments regarding d/or otherwise state SATISFACTORY:
Check Pilot's Post-Flight Declaration	
Date of Check Flight:	Base field used:
following schedule accurately and wholly reflect t	rcraft and the data and comments recorded in the he results I obtained. In my opinion, subject to my sfactorily and shows no adverse or abnormal
Print Name:	PPL No:
Cianada	Date:

CHECK FLIGHT SCHEDULE

LAA Factory-Built Gyroplanes

FBG/FT-1

1. Introduction

It is assumed that the routine operation of the gyroplane serves as a continuing check on the function of all normal controls. If any special device or control is fitted, which is not in use on every flight, it must be carefully checked in the course of the functioning tests which are included in this schedule.

The Check Flight must be carried out by a pilot experienced on the type. Should there be any query about the Check Flight or its results, the LAA Engineering Dept may be consulted.

Aircraft empty weight (refer to weight scheo	dule):lb/ko	9
Pilot Weight: lb/kg	Obs/Ballast Weight:	
		lb/kg
Fuel contents: lb/kg		
Take-off weight:lb/kg		
If Max Weight not achieved explain why:		
3. Pre-flight Information		
Air temp:deg.C Surface wind	:/	
4. Pre-flight Inspection		
Carry out all normal pre-flight inspection pre-	ocedures, commenting on th	ne following:
Seat, Safety Harness and Nacelle: Cyclic controls - freedom, travel, co Rudder system - freedom, travel, co Throttle controls - freedom, travel, co Placarding: legibility and accuracy: Propeller condition: Rotor pre-spin mechanism (if fitted)	ondition: condition:	Sat/Unsat Sat/Unsat Sat/Unsat Sat/Unsat Sat/Unsat Sat/Unsat Sat/Unsat

5. Start-up

Check for any difficulty or abnormality on start-up.	Check ignition for any sign of rough running at idling
and check for dead cut.	

	Comment: _				
	Stable idling rpm:				
	Engine Test rpm:				
	Carb Heat Test (if fitted) rpm drop:			
	Dual ignition (if fitted) rp	om drop: Left	Right		
	VP Prop test (if applical	ole):			
	Wheel Brake/s hold gyr	o up to:		rpm (engine)	
	he engine warmed up an nd again at take-off:	d all temperatures s	stabilised, check and rec	ord the following at engine test	
		rpm	T.O.	Limitation	
	Engine rpm				
	Manifold pressure				
	Engine Oil temp				
	Engine Oil Pressure				
	Cylinder Head temp				
	Wheel Brake/s (taxying):	;	Sat/Unsat	
	Wheel Brakes from Rea	ar Cockpit:	Sat/Unsat		
	Throttle response (taxy	ing):	Sat/Unsat		
	Rudder/Steering respon	nse (taxying):	Sat/Unsat		
	Tendency to Nose whe	el shimmy?			
	Best Turning Radii app	rox:			
6.	Take-Off				
	out a normal take-off in a d the following:	accordance with Pilo	ots Handbook procedure	S.	
	Wheel Brakes:		;	Sat/Unsat	
	Pre rotator:		;	Sat/Unsat	
	Rotor spin up:		;	Sat/Unsat	

Acceleration:	Sat/Unsat	
Unstick & climb out:	Sat/Unsat	
General comments (Include max rotor rpm achieved at what engine rpm. Note wind speed		
through the disc. Comment on vibration levels ex	perienced)	
·		

6.1. Performance and Handling

Make a careful assessment of the performance and handling characteristics under the conditions listed below. DO NOT attempt to exceed the boundaries of the known and safe 'Flight Envelope' for the particular machine.

6.2 Performance Climb

With the altimeter set to 1013 mb, climb at maximum engine power (with prop set to "Climb" /fine) at the optimum climb speed for the machine for 3 mins with zero sideslip (string central). When a stable, yaw free heading has been achieved, in conditions as calm as possible, record the following:

Tim e min.	Alt. Ft.	OAT deg C/F	IAS kts/ mph	Rotor RPM	CHT deg C / F	Eng Oil Temp	Eng Oil Press	Engine RPM	MAP
0.00									
0.30									
1.00									
1.30									
2.00									
2.30									
3.00									

N.B. To achieve scheduled performance, ensure correct Flight Manual/POH configuration is used.

Delete or insert instrument units (i.e. mph) as appropriate. Obtain OAT from Meteorological Office if no gauge fitted.

Comment on the rate of climb, engine temperatures etc., should they appear in any way abnormal for the engine/machine in question.

6.3 Cruise

With normal cruise power stabilised (and prop set up for cruise), trim the gyroplane for straight and level flight and then record:

IAC	Leta /vao va la
IAS	kts/mph
Altitude	feet (1013 mb)
OAT (if known)	deg C / F
Stable engine temp, CHT	deg C / F
Stable engine oil temp	deg C / F
Stable engine oil pressure	
Average engine rpm	
MAP	
Pitch trim set for	kts/mph
Rudder trim tab needs adjustment?	
Left/Right rudder needed?	
Rotor tracking error (Estimate any split)	(2 inches max)
Vibration level	
Can a positive rate of climb be achieved with prop fully coarse and full throttle?	

6.4 Steep Turns

Carry out steep turns (AOB dependant on type but normally 45°) in both directions with engine at full power. Check the controls for normal response, travel and position, noting general vibration levels.

Control response:			
Control position:			
Vibration levels:			
Estimated bank angle	(max):	·	
Maximum 'g' recorded	(if meter fitted): _		

6.5 Maximum and Minimum Speed

At a safe altitude, (with prop set up for cruise) increase airpseed to the placarded V_{NE} . Check control response turning up to 10 °AOB and note vibration level. Slow (setting prop to climb/fine) to Vmin or $V_{mc(power\ on)}$ if faster. Record:

Altitude:	feet (1013 mb)
OAT:	deg C / F
Placard V _{NE:}	kts/mph

	Manifold Pressure (if known):	
	Engine rpm:	
	Rotor rpm:	
	Acheived speed	kts/mph
	Control response:	Sat/Unsat
	Vibration level:	
	Min speed (level flight):	kts/mph
	Engine rpm:	
	Manifold Pressure:	
6.6	Descent at Idle Power	
idle an		able area, reduce progressively the engine rpm to nich should be at the reommended airspeed for the
	Comment on speed, attitude changes and co	
	Vibration levels:	
	IAS:	kts/mph
	Medium turns:	Sat/Unsat
	Rotor rpm:	
	Engine rpm:	
6.7	Descent at V MC(Power Off)	
reduce direction	e progressively the aircraft speed to V MC(Power C	ver to power on climbing flight by 1000 ft AGL. NB:
	Vibration levels:	
	IAS:	kts/mph
	Approx Yaw Rate:left	right
	Rotor rpm:	
	Engine rpm:	

7. Functioning Tests

Check the following items at appropriate time during the flight, where applicable.

	Rotor rpm tachometer Compass (check headings i	if possible)	Sat/U	nsat
	Fuel contents gauge	p = = = ::	Sat/U	
	Carburettor hot air system		Sat/U	
	Rotor brake		Sat/U	nsat
	Drift Indicator		Sat/U	nsat
	Radio		Sat/U	nsat
	Landing gear		Sat/U	nsat
	Variable Pitch Prop		Sat/U	nsat
	Any other gauge/system inc	cluding all avionics, list	below:	
				Sat/Unsat
				Sat/Unsat
				Sat/Unsat
On to	ouchdown, check that the land	ing gear functions corr	actly	
	in particular, that there is no n		ectly	Sat/Unsat
Estin	nated landing run, after touchd	own		feet/metres
8	Post Flight Fuel shut off	control		Sat/Unsat
9	Rate of Climb Graph	See following page.		

