

Ground Run Request/Report						
	Date:			Location:		
ro Type: Works No: Reg:			Logbook Hrs:			
Engine S	Ser No:		Engine hours:		Prop:	
epair / ground r	un post service / o	ther reas	on			
levels are corre	ect, any required c	owlings	removed ar	nd fuel tanks emp	ty – ensure both LA	ANE switches
eyswitch on (wi	ithout turning the	engine)				
ompleted as pa	rt of a service, rep	etition is	not require	ed.		
	Result			Remarks		Sign
switch off ,	Ok/Nok/NA					
e fitted)						
	Works No: Engine Sepair / ground relevels are correspondent on (with purpletted as passwitch off,	Date: Works No: Engine Ser No: epair / ground run post service / or levels are correct, any required or eyswitch on (without turning the or completed as part of a service, report Res switch off, Ok/Nok/NA	Date: Works No: Engine Ser No: epair / ground run post service / other reas levels are correct, any required cowlings responsible to make the management of a service, repetition is Result switch off, Ok/Nok/NA	Date: Works No: Engine Ser No: Engine Ser No: Engine hore epair / ground run post service / other reason levels are correct, any required cowlings removed and expswitch on (without turning the engine) completed as part of a service, repetition is not required. Result switch off, Ok/Nok/NA	Date: Location:	Date: Location:

Test No.	Action	Result	Remarks	Sign
1	With keyswitch and Avionic switch off , ensure the electronic (where fitted) Altimeter and ASI can be manually switched on and off (internal battery check)	Ok/Nok/NA		
2	With keyswitch and Avionic switch on, ensure the electronic (where fitted) ASI and Altimeter can be manually switched on, and switches off automatically when the keyswitch is switched off.	Ok/Nok/NA		
3	Check correct indication of the altimeter	Ok/Nok	Cross check to transponder at 1013Pa (if fitted) and/or airfield QNH & height If nok, recalibrate or replace	
4	Turn keyswitch ON			
5	Roll trim (if fitted) LED carries out a self-test and centralizes	Ok/Nok/NA		
6	Instruments carry out a self-test (where applicable)	Ok/Nok/NA		
7	Low fuel warning LED is illuminated (if fitted)	Ok/Nok/NA		
8	Fuel pressure warning LED illuminates (and extinguishes if sufficient fuel pressure present)	Ok/Nok/NA		
9	Low Volt LED illuminates	Ok/Nok		
10	Gen3 (if fitted) LED is illuminated	Ok/Nok		
11	Oil P LED is illuminated	Ok/Nok		
12	Lane A and Lane B LEDS illuminate when LANE A and LANE B switched ON	Ok/Nok/NA		
13	Fire Warning LED (Cavalon) carries out a self-test and extinguishes	Ok/Nok/NA	3 short blinks	
14	Fuel gauge shows zero fuel	Ok/Nok/NA		
15	Outside Temp gauge shows correct temp if fitted	Ok/Nok/NA	Compare with known ambient temperature	
16	Water Temp LED remains extinguished	Ok/Nok/NA		
17	Slowly fill the tank with fuel, note the amount of fuel required to extinguish the Low Fuel LED (if fitted)	Fuel requiredLtr Ok/Nok/NA		
18	Continue to fill the tank to maximum level and carry out a leak check if possible.	Ok/Nok/NA		
19	Ensure compass indicates the correct direction	Ok/Nok/NA	Compare to known heading N,S,E,W. Calibrate if required	
20	Ensure main electrical fuel pump is functioning (sound test)	Ok/Nok/NA		
21	Carry out a functional check of the secondary electrical fuel pump (sound test)	Ok/Nok/NA		
22	Ensure all instrument readings and ranges of the glass cockpit (if fitted) comply with TADS.	Ok/Nok/NA		

Prior to carrying out the ground run with engine running, secure the gyro at the keel tube to a secure ground mounting point, ensure the securing line is taut and apply the brakes. Ensure the area is clear of obstruction and be aware of propeller blast. Ensure that the area



rear of the rear undercarriage boom is not entered AT ANY TIME with the engine running. Carry out the engine ground run and all adjustments in accordance with engine manufacturer's current instructions. Ideally the aircraft should be ground run with rotor removed to facilitate a pre-rotation test.

	litate a pre-rotation test. cowlings MUST be secured!		
23	Carry out a wheel brake functional test	Ok/Nok	Solid end point, brake lever should not contact throttle lever. Minimal sponginess
24	Switch the 2 LANE switches to the on position, ensure the throttle is at the correct position and start the engine	Start Ok/Nok	
25	Ensure the engine oil pressure enters the green range within 10 seconds	Ok/Nok	
26	Ensure all LEDs extinguish	Ok/Nok	
27	Ensure all LEDs extinguish in the rear cockpit if fitted	Ok/Nok/NA	
28	Ensure fuel pressure gauge functions correctly if fitted.	Ok/Nok/NA	
29	Carry out a leak check of all oil lines and connections	Ok/Nok	
30	Carry out a leak check of all coolant lines and connections	Ok/Nok	
31	Carry out a leak check of all fuel lines and connections	Ok/Nok	
32	Carry out a functional check of the navigation lights if fitted	Ok/Nok/NA	
33	Carry out a functional check of the anti- collision lights if fitted	Ok/Nok/NA	
34	Carry out a functional check of the strobes if fitted	Ok/Nok/NA	
35	Carry out a functional check of the main landing lights if fitted	Ok/Nok/NA	
36	Carry out a functional check of the LED landing light and position lights if fitted	Ok/Nok/NA	
37	Carry out a functional check of all cockpit lighting (and dimmer switch) if fitted	Ok/Nok/NA	
38	Set engine speed to 5000rpm and carry out a functional test of the Woodcomp propeller if fitted	Pull out the propeller knob to full coarse and observe/listen for the drop in engine rpm. Return to full fine and observe that the rpm returns correctly Ok/Nok/NA	Finish check in full-fine pitch.
39	Ensure engine idle speed is set to 1600 +/- 50rpm	Engine idle speedrpm Ok/Nok	Adjustable prop set to 'fine' if fitted
40	Note any abnormal vibrations in the fuselage/engine/prop at idle	Ok/Nok	
41	Increase engine rpm to 2500, switch off cockpit LANE A. Note engine rpm drop, switch back on. Carry out the same for LANE B	Rpm drop LANE Arpm Rpm drop LANE Brpm Differencerpm OAT°C AirfieldFt Ok/Nok	Maximum allowed drop: 250rpm
42	Carry out the same test in action 51 for the rear instructor LANE switches if fitted	Rpm drop LANE Arpm Rpm drop LANE Brpm Differencerpm Ok/Nok	
43	With the engine rpm stabilized at 4000rpm, carry out an oil thermostat check.	Ok/Nok	On reaching approx. 100°C the thermostat should open and the oil temperature should drop by approx. 10°C
44	Carry out a full throttle check. Operator should be seated in the aircraft during this check.	Ok/Nok	Full throttle engine rpm should be 5400 +/- 100rpm Woodcomp prop to be set to full fine



	With throttle returned to idle, carry out a pneumatic functional check of the forward stick 4 way switch (no rotor fitted)	Ok/Nok	Flight/Brake switch set to Brake. Move 4 way to rear, rotor brake
		Ok/Nok	operates Flight/Brake switch set to Brake. Move 4 way forward, no action.
		Ok/Nok	Flight/Brake switch set to Flight. Move 4 way to rear, rotor head is
45		Ok/Nok	trimmed to the rear. Flight/Brake switch set to Flight. Move 4 way forward, pressure
"			releases and rotor is trimmed forward
	(If roll trim fitted)	Ok/Nok/NA	Move 4 way to the left. Rotor should trim to the left and the LED indicator should indicate left
	(If roll trim fitted)	Ok/Nok/NA	Move 4 way to the Right. Rotor should trim to the right and the LED indicator should indicate right
	Carry out a pre-rotation functional check (no rotor fitted)	Ok/Nok	Stick forward, Flight/Brake Switch at Flight, depress the pre- rotator button. Pin must push the Bendix into the crown gear, clutch then engages, rotates the rotor head and rotor rpm is shown on the instrument
46		Ok/Nok	Move stick far enough to the rear that the micro-switch operates. Pre-rotator button should now not operate
		Ok/Nok	Stick forward, Flight/Brake switch at Brake, rotor brake applied. Depress the 'Overdrive' button on the cockpit panel, and the pre-rotator button on the stick simultaneously. The rotor head should rotate and rpm displayed on the rotor rpm gauge
47	Carry out a radio functional check if fitted	Radio strength (tower) Ok/Nok/NA	Minimum strength 4 . No interference
48	Carry out items 56 to 58 for the rear (MTO) or left (Cavalon) stick if fitted.	Ok/Nok/NA	
49	Confirm all instrument readings of the glass cockpit (if fitted) comply with TADS/TCDS with engine running	Ok/Nok/NA	
50	Ensure all instruments of the rear (instructor) cockpit operate and indicate correctly (if fitted)	Ok/Nok/NA Note ASI and altimeter units must be the same in both seats	
51	Carry out a cabin heating functional check if fitted	Ok/Nok/NA	
52	Carry out a functional check of the pilot and passenger seat heating if fitted	Ok/Nok/NA	
53	Carry out a functional check of the pilot and passenger seat lumbar cushion if fitted	Ok/Nok/NA	
54	Switch off engine using LANE switches (ensure aircraft has run for at least 2 minutes at idle)	Ok/Nok	
55	Switch off keyswitch		
56	Untether the aircraft Carry out an oil level check – top-up as	Ok/Nok	
57	required		
58	Carry out a coolant level check – top- up as required	Ok/Nok	



59	Carry out a final leak check of all fluid connections/hoses/containers	Ok/Nok			
60	Ensure all tools, equipment and other task related items are removed from the aircraft	Ok/Nok			
61	Carry out a loose article check	Ok/Nok			
62	Carry out any finalization work required				
	ft Maintenance Release: The work record it is considered fit to fly	ed above (all pages	s) has been completed	d to my satisfaction and in	that respect, the
Nar	me/sig of person completing the work	Date		e/sign confirming task ete as specified	Stamp or authorisation code

Ok: Action carried out, assessed as serviceable

Nok: Action carried out, assessed as unserviceable, corrective action required

N/A: Action is not applicable for this aircraft

 $\textbf{Signature:} \ \textbf{Sign the relevant block when the action has been performed, or enter N/P for "Not Performed"}$

Remarks: Enter a unique remark where required, or enter a reference to an extra worksheet or photo attached to this protocol