

## AutoGyro

Ground Run Request/Report					
Mechanic Name:		Date:	Location:		
Gyro Type: Works No:		Reg:	Logbook Hrs:		
Engine Type: Engine		e Ser No: Engine hours: Prop:			
Reason for test: Initial ground run post production / ground run post repair / ground run post service / other reason					
are of	f and the area is clear, turn ignition on (wi	thout turning the engine)		ind switches	
Test	Action	Result	Remarks	Sign	
No.	Deter 014 confirm 000/ lood has been		Initial action and		
1	Rotax 914 – confirm 98% load has been	Οκ/Νοκ/ΝΑ	Initial setup only		
	With ignition and Avionic switch <b>off</b> ,	Ok/Nok/NA			
	ensure the electronic (where fitted)				
2	Altimeter and ASI can be manually				
	switched on and off (internal battery				
	With ignition and Avionic switch <b>on</b> .	Ok/Nok/NA			
	ensure the electronic (where fitted) ASI				
3	and Altimeter can be manually				
5	switched on, and switches off				
	automatically when the ignition is switched off				
	Check correct indication of the	Ok/Nok	Cross check to transponder at		
4	altimeter		1013Pa (if fitted) and/or airfield		
			QNH & height		
5	Roll trim (if fitted) LED carries out a self-test and centralizes	OK/NOK/NA			
	Instruments carry out a self-test	Ok/Nok/NA			
6	(where applicable)				
7	Low fuel warning LED is illuminated (if	Ok/Nok/NA			
	Fuel pressure warning LED illuminates	Ok/Nok/NA			
8	(and extinguishes if sufficient fuel				
	pressure present)				
9	Low Volt LED illuminates	Ok/Nok			
10	illuminated	Οκ/Νοκ			
11	Oil P LED is illuminated	Ok/Nok			
12	Rotax 914 – TCU & Boost LED's	Ok/Nok/NA			
	illuminate and extinguish				
13	Fine LED illuminates and extinguished	Οκ/Νοκ/ΝΑ			
	Fire Warning LED (if fitted – check	Ok/Nok/NA	3 short blinks		
14	engine for fire-wire) carries out a self-				
	test and extinguishes				
15	check (if fitted)	UK/NOK/NA	open extinguishes with canopy		
			closed		
16	Fuel gauge shows zero fuel	Ok/Nok/NA			
17	Outside Temp gauge shows correct	Ok/Nok/NA	Compare with known ambient		
	Rotor Brg Temp gauge shows correct	Ok/Nok/NA	Compare with known ambient		
18	temperature if fitted		temperature		
	Water Temp LED remains extinguished	Ok/Nok/NA			
19	if fitted or lights green dependent on				
	Slowly fill the tank with fuel note the	Fuel required Utr			
20	amount of fuel required to extinguish	Ok/Nok/NA			
	the Low Fuel LED (if fitted)	· · ·			
	Continue to fill the tank to maximum	Ok/Nok/NA			
21	level and carry out a leak check if				
	If item <b>18</b> is carried out remove fuel to	Ok/Nok/NA			
22	leave approx. 4.5 liters useable if the	,			



	aircraft is to be weighed post ground			
	run			
22	Ensure compass indicates the correct	Ok/Nok/NA	Compare to known heading	
	Rotax 914 – ensure main electrical fuel	Ok/Nok/NA	N,S,E,W. Calibrate in required	
24	pump is functioning (sound test)			
25	Carry out a functional check of the	Ok/Nok/NA		
	secondary electrical fuel pump if fitted			
	Carry out a functional test of the	Ok/Nok/NA	LED lights and extinguishes when	
26 27	manual cooler fan button (Calidus and		button pressed and released. Fan	
	Cavalon)		runs for approx. 2 mins.	
	Ensure all instrument readings and	Ok/Nok/NA		
	ranges of the glass cockpit (if fitted)			
	comply with TADS.			
28	fitted and the balance hose closed	OK/NOK/NA		
Prior	to carrying out the ground run with engine	e running, secure the gyro at the keel tu	be to a secure ground mounting poin	t, ensure the
securi	ing line is taut and apply the brakes. Ensur	re the area is clear of obstruction and be	aware of propeller blast. Ensure that	t the area
rear o	f the rear undercarriage boom is not ente	red AT ANY TIME with the engine running	ng. Carry out the engine ground run a	and all
adjust	tments in accordance with engine manufa	cturer's current instructions. Ideally the	aircraft should be ground run with r	otor removed
to fac	Carry out a wheel brake functional test	Ok/Nok	Solid and point brake lover	
29	Carry out a wheel brake functional test	OKINOK	should not contact throttle lever	
			No sponginess	
	Switch the 2 MAG switches to the on	Start Ok/Nok		
30	position, apply the choke if necessary,			
	ensure the throttle is at the idle			
	position and start the engine	Ok/Nok		
31	the green range within 10 seconds	OKINOK		
	Ensure all LEDs extinguish (excluding	Ok/Nok		
32	'Canopy' for Calidus if the canopy is			
	open and the warning system fitted)			
33	Ensure all LEDs extinguish in the rear	Ok/Nok/NA		
	COCKPIT If fitted	Ok/Nok/NA		
34	correctly if fitted.			
25	Carry out a leak check of all oil lines	Ok/Nok		
33	and connections			
36	Carry out a leak check of all coolant	Ok/Nok		
	lines and connections	Ok/Nok		
37	and connections	OK/ NOK		
20	Carry out a functional check of the	Ok/Nok/NA		
38	navigation lights if fitted			
39	Carry out a functional check of the anti-	Ok/Nok/NA		
	Collision lights if fitted	Ok/Nok/NA		
40	strobes if fitted			
41	Carry out a functional check of the	Ok/Nok/NA		
41	main landing lights if fitted			
42	Carry out a functional check of the LED	Ok/Nok/NA		
	Carry out a functional check of all	Ok/Nok/NA		
43	cockpit lighting (and dimmer switch) if			
	fitted			
	Set engine speed to 2500rpm and carry	Rocker switch to coarse = decline in	LEDs blink during operation,	
	out an IVO functional test if fitted.	engine rpm	constant on reaching end point,	
44		Rocker switch to fine = increase in	IVO moves back off the end point	
			and LED extinguishes. Finish check in full-fine nitch	
	Set engine speed to 2500rpm and carry	Rocker switch to coarse = decline in	Finish check in full-fine pitch.	
45	out a functional test of the Woodcomp	engine rpm		
	propeller if fitted	Bocker switch to fine = increase in		



		engine rpm		
		Ok/Nok/NA		
	Ensure engine has reached operating	Ok/Nok/NA	IAW engine manufacturers	
46	temperature, set engine to 2000rpm		Instructions	
	Ensure engine idle speed is set to 1600	Engine idle speed rnm	Adjustable prop set to 'fine' if	
47	+/- 50rpm	Ok/Nok	fitted	
48	Note any abnormal vibrations in the	Ok/Nok		
	Increase angine rpm to 4000 switch off	Rom drop MAG1 rom	Maximum allowed drop: 200rpm	
	cocknit MAG1 note engine rpm dron	Rpm drop MAG2 rpm	Maximum difference: 115rpm	
	switch back on Carry out the same for	Difference rnm	Maximum unterence. 1151pm	
49	MAG2	OAT°C		
		AirfieldFt		
		Ok/Nok		
	Carry out the same test in action <b>51</b> for	Rpm drop MAG1rpm		
50	the rear instructor MAG switches if	Rpm drop MAG2rpm		
50	fitted	Differencerpm		
		Ok/Nok		
	With the engine rpm stabilized at	Ok/Nok	On reaching approx. 100°C the	
51	4000rpm, carry out an oil thermostat		thermostat should open and the	
	CNECK.		oil temperature should drop by	
	Carry out a full throttle check	Ok/Nok	approx. 10 C	
52	Carry out a full throttle check.	OK/INOK	Full throttle engine rpm should be $5400 \pm (100 \text{ rpm}^2)$	
52	aircraft during this check.		IVO set to fine if applicable	
	Calidus – close canopy and ensure	Ok/Nok/NA		
53	'canopy' LED extinguishes	-, -,		
	With throttle returned to idle, carry out	Ok/Nok	Flight/Brake switch set to Brake.	
	a pneumatic functional check of the		Move 4 way to rear, rotor brake	
	<b>forward</b> stick 4 way switch (no rotor		operates	
	fitted)	Ok/Nok	Flight/Brake switch set to Brake.	
		Ok/Nok	Flight / Prake switch set to Elight	
		OK/ NOK	Move 4 way to rear rotor head is	
			trimmed to the rear.	
		Ok/Nok	Flight/Brake switch set to Flight.	
54			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)	UK/NOK/NA	Nove 4 way to the Right and the	
			LED indicator should indicate	
			right	
	Carry out a pre-rotation functional	Ok/Nok	Stick forward, Flight/Brake Switch	
	check (no rotor fitted)		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	
		UK/ NOK	Move stick far enough to the rear	
55			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		
	Carry out a radio functional check if	Radio strength (tow	/er)	Minimum strength <b>4</b> .		
56	fitted	Ok/Nok/NA	- /	No interference		
	Carry out items <b>56</b> to <b>58</b> for the rear	Ok/Nok/NA				
57	(MTO & Calidus) or left (Cavalon) stick					
	if fitted.					
	Confirm all instrument readings of the	Ok/Nok/NA				
58	glass cockpit (if fitted) comply with	- / - /				
	TADS with engine running					
	Ensure all instruments of the rear	Ok/Nok/NA				
59	(instructor) cockpit operate and	- , - ,				
	indicate correctly (if fitted)					
	Carry out a cabin heating functional	Ok/Nok/NA				
60	check if fitted					
	Carry out a functional check of the pilot	Ok/Nok/NA				
61	and passenger seat heating if fitted					
	Carry out a functional check of the pilot	Ok/Nok/NA				
62	and passenger seat lumbar cushion if					
	fitted					
	Allow the engine to run continuously			This means that only unu	sable	
62	until it stops due to fuel starvation if a			fuel is left in the tanks, th	ne	
05	weight report is required, or continue			correct amount for weigh	ning.	
	to action <b>66</b>					
	Switch off engine using mag switches	Ok/Nok				
	(for 914 engines, ensure aircraft has					
64	run for at least 2 minutes at idle) if					
	engine has not stopped through fuel					
	starvation (65)					
65	Switch off ignition					
66	Untether the aircraft					
67	Carry out an oil level check – top-up as	Ok/Nok				
	required					
68	Carry out a coolant level check – top-	OK/NOK				
	up as required					
69	Carry out a final leak check of all fluid	UK/NOK				
	Connections/noses/containers	Ok/Nak				
70	task related items are removed from	OKINOK				
70	the aircraft					
71	Carry out a loose article check	Ok/Nok				
71	Carry out any finalization work	OKINOK				
72	required					
Aircraft Maintenance Release: The work recorded above (all nages) has been completed to my satisfaction and in that respect the						
aircraft is considered fit to fly						
Nar	me/sig of person completing the work	Date	Observer name	e/sign confirming task	St	amp or
wanter sig of person completing the work			comple	ete as specified	author	isation 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

Signature: 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