Cheetah-XLS

BY RAINBOW SKYREACH

Aircraft Maintenance Schedule

In accordance with SA CATS 44.01.6

For

Aircraft: _____





AIRCRAFT MAINTENANCE SCHEDULE

Cheetah-XLS

NOSE-WHEEL AND TAIL-DRAGGER FITTED WITH ROTAX 912ULS ENGINE

APPROVED FLIGHT MANUAL PART NUMBER:	BCAS-NT-001-001
AIRCRAFT TYPE:	CHEETAH – BUSHCAT*
DATE OF ISSUE:	17 March 2020



AIRCRAFT MAINTENANCE SCHEDULE ACCEPTANCE PAGE

- 1. The procedures set out here in document BCAS-NT-001-000 form the Aircraft Maintenance Schedule required by Part 24.01.2 read together with SA CATS 44.01.6, SA CATS 44.021 and SA CATS 44.03.2 of the South African Civil Aviation Regulations, as amended, to show how the Certificate holder will comply with said Regulations.
- 2. The certificate holder is to ensure that all members of the staff, AP or AME are familiar with such procedures as set out herein that relate to their duties and that such procedures are followed at all times.
- 3. The certificate holder is also to ensure that in exercising the procedures laid out in the Aircraft Maintenance Schedule, the provisions of the South African Civil Aviation Regulations, as amended, are complied with at all times.
- 4. No amendments shall be made to this Aircraft Maintenance Schedule without the written approval of the Director. When accepted (by means of a signature on the list of effective pages and acceptance letter issued), such amendments shall be incorporated and implemented immediately.

Signed:	
	DIRECTOR OF CIVIL AVIATION
Date:	



INTRODUCTION TO THE CHEETAH SERIES

This manual may be used for Cheetah-XLS / BushCat aircraft, but not the original Cheetah model. The aircraft identification plate shall also bear the Cheetah-XLS name. The term "BushCat" is purely a marketing term that refers to later models of the Cheetah-XLS, which is the second generation Cheetah aircraft and a development from the original Cheetah

AIRCRAFT MAINTENANCE SCHEDULE DISCLAIMER

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ISSUES AND REVISIONS

This aircraft maintenance schedule may be revised and amended periodically and as a result new issues and revisions will be made and published. Revisions will be made to rectify small changes or errors with this manual which do not change page numbering. Corrected pages simply replace existing pages. New issues will be released if major changes to this manual are made and page many or all page numbers change. If this manual has been shipped with an aircraft it will be suitable for the aircraft and subsequent issues will not be required for it to be complete - i.e., a later issue operating manual will only be applicable to aircraft shipped after that particular issue. If revisions are published you will be notified by SkyReach or by your distributer as they will apply to the correctness of your manual. It should be noted that all revisions and revisions are available on the SkyReach website as downloadable PDF files. The part number of your manual (shown on the front cover) will have the following format:

BCAS-NT-aaa-bbb

The first two parts show that it is a Cheetah-XLS aircraft maintenance schedule for nose-wheel and tail-dragger variants. The numbers replacing 'aaa' show the issue number of your manual, and the numbers replacing 'bbb' indicate the latest revision which has been included in this manual. If you receive a revision to your manual, your manual number will change in the 'bbb' section.

A record of issues and revisions are given on the following page.

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RECORD OF ISSUES AND REVISIONS

The following issues have led to this current issue:

<u>Issue Number</u>	Date Published	Notable Changes
001	21 Feb 2020	Original

The following revisions have been included in this issue. Please document further amendments in the blank spaces provided:

Revision Number	Date Published	Notable Changes
000	N/A	Original (No revisions)
001	17/03/2020	Front cover page amended.

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LIST OF EFFECTIVE PAGES

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4	001-001	21-02-2020	5	001-000	21-02-2020	6	001-000	21-02-2020
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16	001-000	21-02-2020	17	001-000	21-02-2020	18	001-000	21-02-2020
19	001-000	21-02-2020	20	001-000	21-02-2020	21	001-000	21-02-2020
22	001-000	21-02-2020	23	001-000	21-02-2020	24	001-000	21-02-2020
25	001-000	21-02-2020	26	001-000	21-02-2020	27	001-000	21-02-2020
28	001-000	21-02-2020	29	001-000	21-02-2020	30	001-000	21-02-2020
31	001-000	21-02-2020	32	001-000	21-02-2020	33	001-000	21-02-2020
34	001-000	21-02-2020	35	001-000	21-02-2020	36	001-000	21-02-2020
37	001-000	21-02-2020	38	001-000	21-02-2020	39	001-000	21-02-2020
40	001-000	21-02-2020	41	001-000	21-02-2020	42	001-000	21-02-2020
43	001-000	21-02-2020	44	001-000	21-02-2020	45	001-000	21-02-2020
46	001-000	21-02-2020	47	001-000	21-02-2020	48	001-000	21-02-2020
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FEEDBACK FORM

Please use the following form to notify us of any improvements or corrections needed, as well as for continued operational safety reporting or for an owner's change of address notice. After completing the form please fax or email it to the relevant contact details that may be found on our website. In addition, please keep a copy of the completed form in your Aircraft Maintenance Schedule.

Name:
Email:
Phone Number:
Date:
Cheetah-XLS Serial Number:
Registration number:
Feedback information:

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AIRCRAFT ACCEPTANCE FORM Customer Name: Date: Aircraft Reg.: Aircraft Type: Aircraft S/N: Goods in Aircraft Pilots Operating Handbook Mass & Balance Equipment List Flight Folio Certificate of Registration ATF / PFA Radio Station License Fire Extinguisher Fire Notificities Aircraft Signed IN by Customer: Name: Signature: Signature: Aircraft Signed IN by AMO/AP Technician:

Pilots Operating Handbook	
Mass & Balance	
Equipment List	
Flight Folio	
Certificate of Registration	
ATF / PFA	
Radio Station License	
Fire Extinguisher	
First Aid Kit	
Signal ST	
Fuel Tester	
Keys	
Spare Keys	
Headsets	
Control Locks	
Pitot Cover	
Instrument Cover	
Sun Shield	
Prop Straps	
Cowl Plug	
Chocks	
EXTRAS	
1.	
2.	
3.	
4.	
5.	

Aircraft Signed IN by AMO/AP Technician:
Name:
Signature:
Aircraft Signed OUT & Ready for Collection by the AMO / AP
Technician:
Name:
Signature:
Aircraft Signed OUT & Collected by
Customer:
Name:
Signature:
Signature:



AMO MPI & CHECKLISTS

A/C TYPE			
A/C SERIAL NO.			
ENGINE SERIAL NO.			
PROPELLER SERIAL NO.			
A/C REGISTRATION			
DATE			
HOBBS HOURS			
See SA – CATS 44.01.6 for the minimum as the latest revision of the:	n standards	of maintenance Anno	exure A as amended as well
Airframe Maintenance Manual	Revision N	lo:	Dated:
Airframe Detailed Procedures Manual	Revision N	lo:	Dated:
Engine maintenance Manuals	Revision N	lo:	Dated:
Any provisions set out in this checklist t	hat are not	applicable to the wo	rk being performed should

be marked "N/A" and signed in confirmation. (No entries should be left blank)

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SUMMARY OF INSPECTION AND SERVICE INTERVALS

Table 1: Summary of inspection and service intervals

Inspection / service item	Intervals - hours																				
	25*	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
100 hour airframe inspection& service			х		х		х		х		х		х		х		х		х		х
100 hour engine inspection	х		х		х		х		х		х		х		х		х		х		х
200 hour engine inspection					х				х				х				х				х
500 hour airframe inspection											X										х
600 hour engine inspection													х								
1000 hour engine inspection																					х
Oil change**		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	x

^{*} In order to demonstrate continued airworthiness, an engine must be inspected after the first 25 hours of operation. The checks performed at the 25hr inspection are the same as for the 100 hour inspection. This applies to both newly delivered engines and to overhauled engines.

^{** 50} hour oil changes are only applicable for aircraft using leaded AVGAS more than 30% of the time.

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AIRFRAME PERIODIC INSPECTIONS AND SERVICES

The airframe manufacturer requires periodic inspections and service items which must be performed at 100 hour intervals or annually, whichever comes first, in accordance with the procedures detailed below. This means that every 100 hours of operation (provided the date limit is not exceeded), a 100 hour inspection must be carried out.

Additional inspections and service items are also tabulated below. When they become due, they must be done in addition to the 100 hour inspection.

For intervals between maintenance work, a tolerance of ± 10 hours is permissible, but these tolerances must not be exceeded. This means that if a 100 hour check is actually carried out at 110 hours, the next check will be due at 200 hours ± 10 hours, not 210 hours.

If the maintenance is performed before the prescribed interval, the next maintenance check is to be done at the same interval. (For example, if the first check is done at 87 hours of operation, the next 100 hour check must be carried out after 187 hours of operation.)

If the airframe has less than 100 hours of operation during one year, a 100 hour check must be carried out. For the annual inspection a tolerance of ±2 months is given.

AIRFRAME 100 HOUR / ANNUAL INSPECTION

Table 2: Airframe 100 hour / annual inspection

14216 2171111411	ie 100 flour / affiliaar fitspection		
	AILS OF THE CHEETAH-XLS AIRFRAME 100 HOUR / ANNUAL INSPECTIO forming the inspection shall complete paragraphs A through J.	N	
A)	Pre- Inspection action	PASS	FAIL
	Each person to carry out the Cheetah-XLS 100 hour inspection will open the cockpit doors, baggage area and wing inspection area zippers and remove centre console inspection panels.		
В)	Fuselage and Hull	PASS	FAIL
1)System and components	 Inspect all systems and components for improper installation, apparent defects and unsatisfactory operation. Complete a detailed inspection including: Check all bolts and nuts are properly fastened. Check that torque seal is intact. Check that the fuel pump and gascolator are securely attached. Check the operation of the fuel drain valves. Check the security of the fuel tank. Check the top fuselage cables are tensioned to a tension of 80kg (176 lbs.) (a tolerance of ±5% is acceptable). Check the symmetry of the top fuselage cables. Both cables should be the same length, while satisfying the load 		

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	conditions in point 7 above. 8. Check the tension of the elevator and rudder control cables according to the values specified in sections 2.3.3 and 2.3.4respectively of the detailed maintenance procedures manual. 9. Check the fuselage sail condition and tension. 10. Check the zip operation. 11. Check that the information plate is fitted. 12. Check the condition of all placards.	-	
2) Safety wire, cable and turnbuckle inspection.	Inspect the structural elements of the fuselage, including a detailed inspection of the structural cables (refer to section 2.1.9 in the Detailed Procedures Manual), turnbuckles and locking wire holding the turnbuckles in position. Ensure there is no: 1. Evident distortion of the turnbuckle, 2. Missing or loose locking wire 3. Fraying evident on the cable.		
C)	Cabin and Cockpit	PASS	FAIL
1) General	Inspect for cleanliness and loose equipment that might foul the operation of the flight controls. Conduct a detailed inspection of the cabin including: 1. Check all bolts and nuts are properly fastened. a. Check particularly that the M6 bolt installed inverted in the axis tube aft of the joystick butterfly assembly in front of the centre console is present and tight. 2. Check that the torque seal on all critical fasteners is intact. 3. Check the condition of all placards.		
2) Seats and Safety belts	Inspect the seats for poor condition, any apparent defects and ensure correct operation of harnesses. Check also for the presence of the "ASTM compliance" seatbelt sticker on the tube aft of the seatbelt attachment.		
3) Windows and windshield	Inspect for cracks, deterioration due to ultraviolet rays, surface scratches and transparency.		
4) Instruments	Inspect for condition, mounting, markings, and proper operation. Check pitot static connections are secure.		
5) Controls	Complete a detailed inspection including: 1. Check the operation of the throttle levers. 2. Check the operation of the choke lever. 3. Check operation of the elevator trim tab in response to control input. 4. Check the aileron movement in response to control input. 5. Check the flap movement in response to control input. 6. Check the rudder movement in response to control		

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	input.		
6) Batteries	Inspect for proper installation and correct charge.		
7) All systems	Inspect for proper installation, general condition, obvious defects and security of attachment. Check all bolts and nuts are properly fastened and that the torque seal is intact.		
8) Tie wraps	Inspect all tie wraps for general condition, any cracking and proper tightness. Replace if defects are found.		
D)	Engine Bay / Mount	PASS	FAIL
1) Engine Bay	Conduct a visual inspection of the engine bay. Check for: 1. Any signs of oil / fuel leakage. 2. Discolouring and warping, as this may indicate overheating.		
2) Fasteners	 Inspect all studs, bolts and nuts for: Surface damage Secure seating Locking wire (as applicable) Torque seal intact. Other visually evident damage. 		
3) Installation	 Inspect for proper installation and security of all fasteners. Inspect engine mount for cracks and corrosion. 		
4) Vibration mounts	Inspect engine mount rubbers for condition deterioration and security of attachment.		
5) Controls	Inspect the controls to the engine for deterioration, proper installation, correct travel and correct safe tying.		
6) Exhaust	 Inspect for proper security of installation, cracks and obvious defects. Inspect exhaust springs for corrosion and breakages. Check exhaust outlet pipes for cracks, corrosion and security of attachment. 		
7) Accessories	Conduct a visual inspection of the radiator and lines to check for: 1. Visible damage 2. Discoloration or cracking of the lines.		
8) Systems and Functionality.	Inspect all systems for security of installation, condition and obvious defects. This will include detailed inspections of: 1. Check the security of carburettors and air filters. 2. Check the engine staring mechanism. 3. Check the engine ignition switches.		
9) Cowling	Inspect for cracks, chafing marks, condition of fasteners and signs of overheat.		

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E)	Fuel System	PASS	FAIL
1) Fuel tank	Inspect for leakage from fuel drains. Check for sail stains (In flight leakage will stain fuselage sail).		
2) Fuel lines — tank to firewall	Inspect fuel lines from tank to firewall. Check outer surface for abrasions or any visible damage.		
3) Fuel lines – engine side of firewall	Inspect fuel lines on engine side of firewall. Pull back protective foam near each junction and check condition of fuel line surface.		
4) Fuel Filters	With reference to section 2.6.2 in the Detailed Procedures Manual, inspect the fuel filters for debris and replace. In the event of high debris content being evident on the outside of the mesh, increase the fuel filter replacement frequency to 50 hours.		
F)	Landing Gear	PASS	FAIL
1) Complete assembly	 Inspect for condition, security of attachment. Check that all bolts and nuts are properly fastened and that the torque seal is intact on all critical fasteners. Inspect gear stop-shift pin for security. 		
2) Shock absorbers (nose)	Inspect for proper freedom of movement, evidence of fluid leakage, deterioration and condition of spring.		
3) Construction	Inspect the members, attachment hard points and attachment brackets. Also inspect bolts for excessive wear and general condition. Check the operation of the front suspension.		
4) Wheels	Inspect for proper inflation (Check tyre pressure). Ensure the gear is still centred. Check for cracks and assess the wheel bearing condition. Check the wheels for correct alignment.		
5) Brakes	 Inspect hydraulic brake lines for integrity and correct operation. Inspect brake system for proper hydraulic bleeding and adjustment. 		
6) Tyre	Inspect the tyres for general condition, wear and proper inflation.		
7) Safety wire, turnbuckles and cables.	Where applicable, inspect all cables for fraying, turnbuckles for signs of deformation, and ensure that safety wire is not loose or absent.		
G)	Wing and Centre Section	PASS	FAIL
1) Complete assembly	Inspect the condition of the wing and centre section components for general condition, fabric deterioration, distortion, evidence of failure, correct operation of components, security of attachment and installation. Complete a detailed inspection including:		

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	1.	Check all bolts and nuts are properly fastened.		
	2.	Check that the torque seal on all critical fasteners is		
	3.	intact. Check the free and correct movement of control		
	J.	surfaces.		
	4.	Check that control cables do not rub against structure		
		(unless protection is fitted).		
	5.	Check that aileron deflections are equal on both sides.		
	6.	Check that flap deflections are equal on both sides.		
	7.	Check the wing tension cables are tensioned to 160kg (353lbs) (±5%).		
	8.	Check the symmetry of the wing cables.		
	9.	Check aileron control cable tensions according to the values specified in section 2.3.1 of the detailed		
		maintenance procedures manual.		
	10.	Check sail condition and tension on all control surfaces.		
	11.	Check zip operation.		
	12.	Check the security of attachment of all junctions on the wing.		
	13.	Check the security of attachment of all batten pouches		
		to the aircraft skin and the security of the battens in		
		their pouches.		
2) Safety wire, turnbuckles and cables.		cable, inspect all cables for fraying, turnbuckles for signs on, and ensure that safety wire is not loose or absent.		
Н)		Empennage	PASS	FAIL
	general cor failure, corre	condition of the empennage section components for adition, fabric deterioration, distortion, evidence of ect operation of components, security of attachment and Complete a detailed inspection including:		
	1.	Check all bots are nuts are properly fastened.		
	2.	Check that the torque seal on all critical fasteners is		
		intact.		
1) Complete	3.	Check the free movement of control surfaces.		
assembly	4.	Check that elevator deflections are equal on both		
		sides. Refer to section 2.3.2 of the detailed		
	5.	maintenance procedures manual as applicable. Check the upper stabilizer cable tension is 60kg		
]	(132lbs) ±5%.		
	6.	Check sail condition and tension on all control		
		surfaces.		
	7.	Check zip operation.		



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2) Safety wire, turnbuckles and cables.	Where applicable, inspect all cables for fraying, turnbuckles for signs of deformation, and ensure that safety wire is not loose or absent.		
1)	Propeller	PASS	FAIL
1) Propeller	Inspect for cracks, erosion and delamination.		
2) installation	Inspect the installation of the propeller for security of the fasteners and safety devises.		
3) Spinner	Inspect for damage and security of attachment.		
4) Attachment	Verify that the torque values of the attachment bolts are still correct at 25Nm as per the Kiev website.		
١)	Avionics and Electrical Systems	PASS	FAIL
1) Radio and Electronics	 Inspect for correct installation and security of attachment. Check intercom and radio squelch of com radio. Ensure no feedback is heard. Check all lights, fuel pump and other installed electronics devices. 		
2) Wiring and conduits	 Conduct a detailed inspection including: Check the wiring is properly secured and not obstructing movement of occupants or controls. Check all connectors for secure contact. Check all aircraft wiring harnesses are secured and not in contact with hot surfaces. Check all fuses are correct current rating. Remove all panel mount fuses and test each fuse circuit individually. 		
3) Bonding and shielding	Security of installation and obvious damage or defects.		
4) Antenna	Security of installation and obvious damage or defects.		
5) ELT	Annual inspection must be carried out as per the specific ELT inspection manual.		



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			_
	SIGNATURE		

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AIRFRAME ADDITIONAL ITEM 500 HOUR INSPECTION Table 3: Airframe Additional Item / 500 Hour Inspection

SCOPE AND DETAILS OF THE CHEETAH-XLS AIRFRAME ADDITIONAL ITEM 500 HOUR INSPECTION Each person performing the inspection shall complete paragraphs A through B. A) Elevator Control Hinge Bolt Inspection **PASS** FAIL Remove bolt, washers and nut and inspect for any signs of imminent failure indications such as: 1) Bolt 1. Looseness. inspection. 2. Surface damage. 3. Bending or distortion. **PASS** B) Tri-laminate inspection **FAIL** Perform a detailed visual inspection on the Tri Laminate skin 2) Tri-lam covering for deterioration, distortion, other evidence of failure and inspection. defective or insecure attachments or fittings.



<u>Inspection</u> l	Findings:		Skyceach
	COMPLETED BY		
	STAMP		
	SIGNATURE		

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AIRFRAME 100 HOUR / ANNUAL SERVICE

Table 4: Airframe 100 hour / annual service

Table III III II	Table 4. All Italie 100 flour / allitual service		
SCOPE AND DETA	AILS OF THE CHEETAH-XLS AIRFRAME 100 HOUR / ANNUAL SERVICE		
Each person per	forming the inspection shall complete paragraph A		
A)	Replacement items		
Spark plugs	Replace on 100 hour inspection (refer to section 2.5.7 in the "Detailed Procedures Manual")		
Oil	Complete an oil change and replace the oil as per section 2.7.4 in the "Detailed Procedures Manual".		
Oil filter	Replace the oil filter after inspection (refer to section 2.7.3 in the "Detailed Procedures Manual").		
Fuel Filters	Should the inspection deem it necessary, replace the fuel filters as per section 2.6.2 in the "Detailed Procedures Manual".		
Air filters	Should the inspection deem it necessary, replace the air filter as per section 2.5.3 in the "Detailed Procedures Manual".		

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2000 hr X

ENGINE PERIODIC INSPECTIONS AND SERVICES

The engine manufacturer requires periodic inspections which must be performed at 25, 100, 200 and 600 hours in accordance with the ROTAX Line Maintenance Manual. This means that every 100 hours of operation a 100 hour check must be carried out. Every 200 hours of operation, a 100 hour inspection and the additional 200 hr inspection items must be carried out.

Table 5: Summary of engine inspection intervals

	Intervals - hours									
	25 hr	100 hr	200 hr	300 hr	400 hr	500 hr	600 hr	700 hr	to	
100 hr	Х	Х	Х	Х	Х	Х	Х	Х		ŀ
200 hr			Х		Х		Х			İ
600 hr							Х			İ

^{*} This was included from the ROTAX maintenance manual for line maintenance / heavy maintenance for the reader's convenience. While every effort has been made to provide a true and up to date representation of the ROTAX inspections, should the ROTAX manuals differ from the instructions presented here, the ROTAX manual supersedes this manual in all cases.

The Engine 100 Hour Inspection

In order to demonstrate continued airworthiness, an engine must be inspected after every 100 hours of operation or after every 12 month period, whichever comes first.

For intervals between maintenance; a tolerance of ± 10 hours is permissible, but these tolerances must not be exceeded. This means that if a 100 hour check is actually carried out at 110 hours, the next check will be due at 200 hours ± 10 hours, not 210 hours ± 10 hours.

If the maintenance is performed before the prescribed interval, the next maintenance check is to be done at the same interval. (For example, if the first check is done at 87 hours of operation, the next 100 hour check must be carried out after 187 hours of operation.

If the engine has less than 100 hours of operation during one year, a 100 hour check must be carried out. For the annual inspection a tolerance of ±2 months is given.

The Engine 25 Hour Inspection

In order to demonstrate continued airworthiness, an engine must be inspected after the first 25 hours of operation.

The checks performed at the 25 hour inspection are the same as for the 100 hour inspection. This applies to both newly delivered engines and to overhauled engines.

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ENGINE 100 HOUR ANNUAL INSPECTION

Table 6: Engine 100 hour / annual inspection

SCOPE AND DETAILS OF THE ROTAX ENGINE100 HOUR / ANNUAL INSPECTION& SERVICE 1. & 2. Each person performing the inspection shall complete paragraphs A through Q A) PRE- Inspection action **PASS** FAIL Each person to carry out the Cheetah-XLS Rotax Engine 100 hour inspection will remove the engine cowling to conduct the inspection. **Engine Visual Inspection PASS** B) **FAIL** A general visual inspection of the engine for damage or abnormalities needs to be conducted in accordance with the ROTAX line maintenance manual, Ch. 12-20-00, section 3. General The cooling air duct and cooling fins of the cylinders need to be checked for obstructions, cracks, wear and condition. Particular note should be taken of changes due to temperature influence. A visual inspection of the temperature sensor and the oil pressure sensor needs to be conducted. Check: Sensor inspection 1. Sensor fit. 2. Sensor general condition. Inspect all coolant hoses for damage in accordance with the ROTAX line maintenance manual, Ch. 12-20-00, SECTION 9.1. Check for: 1. Leakage Coolant hose 2. Hardening from heat inspection 3. Porosity 4. Loose connections 5. Secure attachment Verify the routing of the hoses if free of kinks and restrictions. Carry out the visual inspection of leakage bore at the base of the water Water pump pump for signs of leakage in accordance with the ROTAX line inspection maintenance manual, Ch.12-20-00, section 4. Inspection the expansion tank for damage and abnormalities in accordance with the ROTAX line maintenance manual, Ch. 12-20-00, section 9.1,9.4 and in accordance with the ROTAX line maintenance **Expansion tank** manual, Ch. 12-10-00, section 3.1 1. Check the coolant level, replenish as necessary.

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	 Inspect the radiator cap. Inspection the protective rubber on the expansion tank base for the correct fit. 		
	Inspect all oil lines in accordance with the ROTAX line maintenance manual, Ch.12-20-00, section 4. Check all lines for:		
Oil line inspection	 Damage Leakage Hardening from heat Porosity Security of connections and attachments. 		
	Verify the routing is free of kinks and restrictions.		
	Inspect all fuel lines in accordance with the ROTAX line maintenance manual, Ch. 12-20-00, section 4. Check for:		
Fuel line inspection	 Damage Leakage Hardening from heat Porosity Security of connections and attachments. 		
	Verify the routing is free of kinks and restrictions.		
Wiring inspection	Inspect the wiring and its connection for secure fit, damage and signs of wear in accordance with the ROTAX line maintenance manual, Ch. 12-20-00, section 13.1.		
Fuel filter inspection	Visually inspect the translucent casing of the fuel filter for evidence of excessive debris. Cut the fuel filters open and ascertain the nature of the debris on a white background for clarity and replace the fuel filters. If there is evidence of excessive debris, increase the service interval to 50 hours. (Refer to section 2.6.2 of the "Detailed Procedures Manual".		
C)	Magnetic Plug	PASS	FAIL
Magnetic plug inspection	Check the magnetic plug in accordance with the ROTAX line maintenance manual, Ch. 12-20-00. Section 12 (Reproduced in section 2.5.5. of the "Detailed Procedures Manual" for convenience).		
D)	Fuel Shut off Valve Check.	PASS	FAIL
Fuel Shut off valve.	To test the fuel shut off valve, start the engine as per the start-up procedure in the POH, then use the fuel shut off to shut the engine down to ensure that it is operational. This can form part of the engine test run.		
E)	Checking the engine suspension	PASS	FAIL
Engine suspension	Inspect the engine suspension and fasteners for secure fit in accordance with the ROTAX line maintenance manual, Ch. 12-20-00, section 3.1.		

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inspection	Include checks for:		
	1. Damage from heat		
	2. Deformation3. Cracks		
F)	Checking the air intake system	PASS	FAIL
	Inspect suspension and fasteners for secure fit including checks for:		
Air intake	1. Damaga from host		
inspection	 Damage from heat Deformation 		
	3. Cracks.		
G)	Engine external parts	PASS	FAIL
External parts	Inspect all the screws and nuts of all external parts for tight fit. Inspect and replace safety wiring as necessary.		
H)	Engine cleaning	PASS	FAIL
Engine Cleaning.	Clean engine in accordance with the ROTAX line maintenance manual, Ch. 12-20-00, section 1. (Reproduced in section 2.5.1 of the "Detailed Procedures Manual" for convenience).		
1)	Checking the air filter	PASS	FAIL
Air filter inspection	Check the air filter in accordance with the ROTAX line maintenance manual, Ch. 12-20-00, section 2. (Reproduced in section 2.5.2 of the "Detailed Procedures Manual" for convenience).		
٦)	Checking the carburettors	PASS	FAIL
Idle Speed Check	Check the idle speed in accordance with the ROTAX line maintenance manual, Ch. 12-20-00, section 10.3.1.		
Actuation	Check for free movement of the carburettor actuation controls (throttle lever and starting carburettor) in accordance with the ROTAX line maintenance manual, Ch.12-20-00, section 10.6.		
	Check that the Bowden cable allows the full travel of the throttle lever from stop to stop.		
Synchronizatio n	Check mechanical and pneumatic synchronisation of the carburettor in accordance with the ROTAX line maintenance manual, Ch.12-20-00, sections 10.1, 10.2 and 10.3. (Reproduced in section 2.6.3. of the "Detailed Procedures Manual" for convenience).		
K)	Spark Plugs	PASS	FAIL
Spark plug inspection	Remove all spark plugs and check the heat range designation, clean, check electrode gap and adjust if necessary in accordance with the ROTAX line maintenance manual, Ch 12-20-00, section 13.2. (Reproduced in section 2.5.6 of the "Detailed Procedures Manual" for convenience).		

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	Replace as necessary. (Refer to section 2.5.7. in the "Detailed Procedures Manual")		
L)	Checking the Propeller Gearbox	PASS	FAIL
Friction torque check	Check the friction torque in rotation on gearbox with overload clutch in accordance with the ROTAX line maintenance manual, Ch. 12-20-00, section 14.1.		
	Actual friction torque Nm (in. Lbs)		
M)	Oil Change	PASS	FAIL
Draining oil	Drain oil from tank in accordance with the ROTAX line maintenance manual, Ch. 12-20-00, section 11.2. 3. (Reproduced in section 2.7.4. of the "Detailed Procedures Manual" for convenience).		
Oil filter change	Remove old oil filter from engine and install new oil filter in accordance with the ROTAX line maintenance manual, Ch. 12-20.00, section 11.3. 3. (Reproduced in section 2.7.3. of the "Detailed Procedures Manual" for convenience).		
Oil filter inspection	Cut old oil filter without producing any metal chips and inspect it in accordance with the ROTAX line maintenance manual, Ch. 12-20-00, section 11.4 for wear and/or missing material. 3. Filter mat. Findings:		

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Oil Refill	Refill the oil tank with approximately 3 litres of oil in accordance with the ROTAX line maintenance manual, Ch. 12-20-00, section 11.2. For oil quality, refer to the ROTAX Operators Manual and SI-912-016, latest edition. 3.		
N)	N) Oil level check		FAIL
Oil Check	Verify the oil level, replenish as necessary in accordance with the ROTAX line maintenance manual, Ch. 12-10-00, section 4.1. (Reproduced in section 2.7.1 of the "Detailed Procedures Manual" for convenience).		
O)	Checking the V-belt tension	PASS	FAIL
V-belt tension	On configurations with auxiliary generator, check the attachment and the V-belt tension in accordance with the ROTAX line maintenance manual, Ch. 12-20-00, section 6.		
P)	Smooth Performance of the Engine	PASS	FAIL
Crankshaft turning inspection	For all engines with crankcase up to S/N 27811 inclusive, conduct an inspection of the turning of the crankshaft in accordance with the ROTAX line maintenance manual, Ch. 05-50-00, section 3.13. Torque: Nm NOTE: For engines with a new crank case (S/N 06.0010 or higher), inspect only in case of suspected damage due to unscheduled maintenance event.		
Q)	Engine test run	PASS	FAIL
Engine Test Run	Conduct an engine test run in accordance with the ROTAX line maintenance manual, Ch. 12-20-00. (Reproduced in section 2.5.8 of the "Detailed Procedures Manual" for convenience). 1. Start the engine and run to operating temperature (for the Limits, refer to the ROTAX Operators Manual for the 912 series). 2. Ignition check at rpm engine speed. 3. Speed drop without ignition circuit: A (Off) rpm B (Off) rpm A/B (difference) rpm 4. Inspect carburettor heat system. 5. Hit the preheating and make a note of speed drop. Speed drop		

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		rpm.		
	6.	Preheating "OFF", engine idle running and make a note of idle speed runningrpm.		
	7.	After engine test run, re-tighten the oil filter by hand (once the engine is cold).		
	8.	Check for leaks.		

- This was included from the ROTAX maintenance manuals for line maintenance / heavy maintenance
 as revised on September 01/2012 for the reader's convenience. While every effort has been made to
 provide a true and up to date representation of the ROTAX inspections, should the ROTAX manual
 differ from the instructions presented here, the ROTAX manual supersedes this manual in all cases.
- 2. The 100 hour engine inspection presented here must be used to conduct the "25 hour inspection" prescribed by ROTAX after the first 25 hours of operation of a new or overhauled engine.
- 3. For aircraft using unleaded AVGAS for more than 30% of the time, this must be accomplished at 50 hour intervals.



Inspection Fir	ndings:		Sky/Ceach
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ENGINE 200 HOUR ADDITIONAL ITEM INSPECTION & SERVICE

Table 7: Engine 200 hour additional item inspection & service

SCOPE AND DETAILS OF ROTAX ENGINE 200 HOUR ADDIONAL ITEMINSPECTION& SERVICE Each person performing the inspection shall complete paragraph A. A) **ROTAX ENGINE CHECKS 1.** PASS FAIL Check the compression by the differential pressure method in accordance with the ROTAX line maintenance manual, Ch. 12-20-00, Section 5. Test pressure ______ hPa (psi) **Compression Check** Pressure drop (% of fraction) Cylinder No. 1 3 4 Bar / psi Check the ventilation of the float chambers. Any trouble with the float chamber ventilation will impair the engine and carburettor functioning. Check that the passage of the ventilation lines is free and that no kinks can arise. Removal / assembly of the 2 carburettors for carburettor inspection as per ROTAX heavy maintenance manual, Ch. 73-00-00. Check the weight of the floater in accordance with the Carburettor checks (Refer to ROTAX heavy maintenance manual, Ch. 12-20-00, section section 2.6.4 in the "Detailed 10.4.1 2. Procedures Manual" Inspect the carburettor sockets for damage and addition to the applicable abnormalities, checking for cracks, wear and condition in Rotax manuals) accordance with the ROTAX heavy maintenance manual, Ch. 73-00-00, section 3.4.3. 3. Take note of changes caused by the influences of temperature.

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		Sky/Ceach	
	Check that resistance spark plug connectors fit tightly on the spark plugs. Minimum pull-off force is 30N (7lb).		
j Spark plug cliccks	Replace spark plugs in accordance with the ROTAX heavy maintenance manual, Ch. 12-20-00, section 13.2. 4. (Reproduced in section 2.5.7 of the "Detailed Procedures Manual" for convenience).		

- 1. This was included from the ROTAX maintenance manual for line maintenance / heavy maintenance as revised on September 01/2012 for the reader's convenience. While every effort has been made to provide a true and up to date representation of the ROTAX inspections, should the ROTAX manuals differ from the instructions presented here, the ROTAX manual supersedes this manual in all cases.
- 2. This should be included in the annual inspection if that occurs before 200 hours.
- 3. See SB-912-030, latest edition.
- 4. Accomplish every 100 hours with the use of leaded fuel for more than 30% of the operation.



Inspection F	Findings:		Sky/Ceach
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ENGINE 600 HOUR ADDITIONAL ITEM INSPECTION & SERVICE

Table 8: Engine 600 hour additional item inspection

SCOPE AND DETAILS OF ROTAX ENGINE 600 HOUR ADDITIONAL ITEM INSPECTION& SERVICE Each person performing the inspection shall complete paragraph A.					
A)	ROTAX ENGINE CHECKS 1.	PASS	FAIL		
Overload clutch inspection 2.	For gearboxes with an overload clutch, the overload clutch must be inspected in accordance with the ROTAX line maintenance manual, Ch. 05-50-00, section 2 and SB-912-033.				
Prop gearbox inspection. 3.	Propeller gearboxes with no overload clutch must be inspected in accordance with the ROTAX line maintenance manual, Ch. 12-20-00, section 14.2.				

- This was included from the ROTAX maintenance manual for line maintenance / heavy maintenance as
 revised on September 01/2012 for the reader's convenience. While every effort has been made to
 provide a true and up to date representation of the ROTAX inspections, should the ROTAX manuals
 differ from the instructions presented here, the ROTAX manual supersedes this manual in all cases.
- 2. For all aircraft using leaded fuel for more than 30% of the time, this inspection must be performed.
- 3. For engine types 912 ULS without the overload clutch.



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ENGINE 1000 HOUR ADDITIONAL ITEM INSPECTION & SERVICE

Table 9: Engine 1000 hour additional item check

SCOPE AND DETAILS OF ROTAX ENGINE 1000 HOUR ADDITIONAL ITEM ANNUAL INSPECTION& SERVICE Each person performing the annual inspection shall complete paragraph A.			
A)	ROTAX ENGINE CHECKS 1.	PASS	FAIL
Prop gearbox inspection 2.	Propeller gearboxes with an overload clutch must be inspected in accordance with the ROTAX line maintenance manual, Ch. 12-20-00, section 14.2.		

- This was included from the ROTAX maintenance manual for line maintenance / heavy maintenance as
 revised on September 01/2012 for the reader's convenience. While every effort has been made to
 provide a true and up to date representation of the ROTAX inspections, should the ROTAX manuals
 differ from the instructions presented here, the ROTAX manual supersedes this manual in all cases.
- 2. For engine types 912 ULS with the overload clutch.



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CONTINUING STRUCTURAL INTEGRITY PROGRAM

For aircraft in use for longer periods of time, the following table of primary life limits and hour limits needs to be observed. A table of primary life limits and cycle limits is provided below to facilitate maintenance tracking.

PRIMARY LIFE LIMITS AND CYCLE LIMITS

Table 10: Primary life limits and cycle limits

Table 10: Primary life limits and cycle limits			
ITEM DESCRIPTION	HOUR LIMITS	LIFE LIMIT (YEARS)	
Elevator control stick hinge bolt	1500	5	
Ethylene Glycol Coolant Replacement	-	2	
Fuel Pump	-	5	
Kiev Propellers	-	6 / 8*	
ROTAX 912UL up to and incl. 4,152.666**	600	10	
ROTAX 912UL from 4'152'667 up to and incl. 4,404.717**	1200	15	
ROTAX 912UL from 4,404.718 up to and incl. 4,409.715**	1500	15	
ROTAX 912UL from 4,409.716**	2000	15	
ROTAX 912ULS up to and incl. 4,427.532**	1200	10	
ROTAX 912ULS from 4,427.533 up to and incl. 6,775.789**	1500	12	
ROTAX 912ULS from 6,775.790**	2000	15	
 Rubber parts including: Venting hose of the Carburettors. Rubber hoses of the cooling system Rubber hoses of the fuel system.*** Venting hose of the fuel pump. Rubber hoses of the lubrication system. Carburettor sockets. Connecting hose of the air intake system. Diaphragm on both Carburettors. Rubber hose on compensating tube. V-belt. 	-	5	
Tri Laminate Sail Cover	1500	5	

^{*} Kiev Propellers are life limited to 6 years for props made before 01-01-2015 and 8 years for newer models.

^{***}Excluding all genuine ROTAX Teflon hoses of the fuel system.

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^{**} In the case of the ROTAX engines, this is the time between overhaul.



POST MAINTENANCE TEST FLIGHT PROCEDURE

A/C TYPE	
A/C SERIAL NO.	
ENGINE SERIAL NO.	
PROPELLER SERIAL NO.	
A/C REGISTRATION	
DATE	
HOBBS HOURS	
INSPECTOR	
A/C REGISTRATION DATE HOBBS HOURS	

Aircraft Acceptance Checklist				Final Check
No:	Document in Folder	Completed	Person Responsible	Checked in Folder
1)	Completed Systems Checks Snag sheet		Production Manager	
2)	Completed Flight Control Rigging form Completed Static Flight Control Check		Assembly Manager	
3)	Completed Empty Weight and Balance form		Approved Person	
4)	Completed Pre-Flight Snag sheet		Production Manager	
5)	Completed Flight Test Snag sheet		Production Manager	
6)	Completed Post-Flight Test QC Snag sheet		Production Manager	
			Date of completion:	
			Signature:	

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SYSTEMS CHECK

Electrical System

If a switch or system is not installed on this particular aircraft, DO NOT tick 'Satisfactory', write 'N/I' as a comment.

Capitalised actions that are not part of a table are actions to be done before or after a specific series of tests.

The system checks assume that set up of all instrumentation has already been done as per the OEM manual supplied with the instrument. These checks are to confirm the correct operation and display of the instruments.

ALL SWITCHES		OFF
ALL CIRCUIT BREAKERS		IN
BRS HANDLE (IF INSTALLED)	SI	ECURED TO CONSOLE
BRS PIN		SECURED
Test Item:	Test Description:	Satisfactory/Comment:
All external lights	Visually confirm all off	
All light switches	Cycle On/Off – visually confirm no power	
Fuel pump	Cycle On/Off – confirm no power	
All analogue instruments	Off – visually confirm	
All electronic instruments	Off – visually confirm	
Radios, GPS and transponder	Off – visually confirm	
Avionics switch	On, confirm no power to any instruments, then turn Off.	
Radio switch	Cycle On/Off – confirm no power to radio	
Transponder switch	Cycle On/Off – confirm no power to transponder	
GPS switch	Cycle On/Off – confirm no power to GPS	
Analogue airspeed indicator	Needle pointing to zero Green arc: 51-89mph White arc: 45-83mph Yellow arc: 89-103mph Red line: 103mph	
Analogue vertical speed indicator	Needle pointing to zero	

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Analogue g-meter	Reading 1.0g	
Analogue slip indicator	Ball centred	
ALL SWITCHES		CONFIRM OFF
MASTER SWITCH		ON

Instruments

Test Item:	Test Description:	Satisfactory/Comment:
Charge fail annunciator (aircraft with NO Charge Switch)	Illuminated	
Charge fail annunciator (aircraft WITH Charge Switch)	ON when Charge Switch turned on. Extinguishes when charge switch off	
Analogue tachometer	On, reading 0 RPM. Green arc: 1800-5500 RPM Yellow arc: 5500-5800 RPM Red line: 5800 RPM.	
	On, reading 0-0.3 bar (4.4 psi)	
Analogue oil pressure gauge	Green arc: 2.0-5.0 bar (29-73 psi)	
	Yellow arc: 5.0-7.0 bar (73- 102 psi) Red line: 7.0 bar (102 psi)	
	On, reading min. value or	
Analogue oil temperature gauge	ambient temp. Green arc: 90-110°C (190-230°F)	
	Red line: 130°C White line/min: 50°C	
Analogue coolant temperature gauge	On, reading min. value or ambient temp.	
	Red line: 120°C (248°F)	
Analogue fuel proceure gouge	On, reading 0 bar/psi Green arc: 0.15-0.5 bar (2.2-7.26 psi)	
Analogue fuel pressure gauge	Red lines: 0.15 and 0.5 bar(2.2 and 7.26 psi)	
Analogue CHT gauge/s	On, reading min. value or ambient temp.	
	Red line: 135°C (330°F)	
Analogue EGT gauge/s	On, reading min. value or ambient temp.	
	Red line: 880°C (1616°F)	

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Analogue Voltage gauge	On, reading 12V ± 0.3V	
Analogue Amp gauge	On, 0.5-1A discharge	
MGL GF-1 G-force meter	On, 1.0g	
MGL FF-1 Fuel Flow	On, F.F 1 and F.F 2 both zero	
MGL ALT-3 digital altimeter	Off	
MGL xTreme-EMS	Off	
MGL E-1 universal engine monitor	Off	
MGL TP-2 Dual channel universal temp/pressure gauge	Off	
Electric cabin heater	On, confirm noise from fan, Off	
Super-Mario landing lights	On, visually confirm ALL LEDs working, Off	
AEROLEDs AeroSun landing/wig wag lights	On, visually confirm ALL LEDs working, Off	
CN Lighting wingtip position/strobe lights	On, visually confirm, Off	
Kuntzleman Magnum strobe light (tail mounted)	On, visually confirm, Off	
Kuntzleman wingtip position/strobe lights	On, visually confirm, Off	
Siren system	On, confirm working, Off	

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AVIONICS SWITCH	ŊΩ
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Test Item:	Test Description:	Satisfactory/Comment:
	On	
	Pitch and roll correct	
	Nose-wheel:	
	(0-2.5°pitch up, 0-2° roll)	
	Tail-dragger:	
	(8-12°pitch up, 0-2° roll)	
	Magnetic heading correct	
	No RED or YELLOW warning flags	
Garmin G5 electronic flight	Bottom of GREEN arc: 51mph	
instrument	Bottom of WHITE arc: 45mph	
	V _A : 89mph	
	V _Y : 66mph	
	V _G : 64mph	
	V _x : 56mph	
	V _R : 53mph	
	QNH selector working	
	Heading bug working	

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		Sky/ceach
	Altitude bug working	
	HSI page selection working	
	On	
	Pitch and roll correct Nose-wheel: (0-2.5°pitch up, 0-2° roll) Tail-dragger: (8-12°pitch up, 0-2° roll)	
	Magnetic heading correct	
	All red warning flags can be cancelled	
	QNH selector working	
	Heading bug working	
	Altitude bug working	
	Tachometer: 0 RPM	
	Check colour scale matches	
	picture: O ENGINE RPM	
MGL xTreme-EFIS	Manifold pressure: 26-30 "Hg	
	Check colour scale matches	
	picture: 29.5 MAP TH9	
	Oil pressure: On, reading 0-0.3	
	bar (4.4 psi) Check colour scale matches picture: OP 0.1bar	
	Oil temp: ambient temp. Check colour scale matches picture:	
	от 27°€	
	Coolant temp: ambient temp. Check colour scale matches picture:	

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	SkyCeach
ст 27°с	
Fuel pressure: 0 bar/Psi	
Check colour scale matches	_
picture:	_
FUEL PRESSURE 0.0 bar	
CHTs reading min. value or ambient temp.	
Check colour scale matches picture:	
1 2 2 cht 24 ·c	
EGTs reading min. value or ambient temp.	
Check colour scale matches picture:	
1 2 2 EGT 23	
Voltage reading 12V ± 0.5V Check colour scale matches	
picture:	
BAT 12.5 V	
Current, 0.5-1A discharge Check colour scale matches	
picture:	

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		<u>SkyReach</u>
	AMPS 0.5 A	
MGL V6 VHF radio	Set frequency, swap, transmit,	
	receive, monitor	
Trig TY-91 VHF radio	Set frequency, swap, transmit,	
	receive, monitor	
Dynon SV-COM-C25 radio	Set frequency, swap, transmit,	
,	receive, monitor	
Garmin GTR200 VHF radio	Set frequency, swap, transmit,	
	receive, monitor	
Sandia STX165 transponder	Mode selection, code setting	
Dynon SV-INTERCOM-2S intercom	Volume and squelch set	
system		
Intercom system	Multiple headset combinations	
Intercom system	trialled with 2 headsets at a time	
Trig TT-22 transponder	Mode selection, code setting	
	ONLY DURING FIRST 5MIN AFTER	
	HOUR. NOTIFY NEARBY CONTROL	
	TOWER OR ATNS OF INTENTION	
	TO TEST ELT. TUNE EXTERNAL	
	RECEIVER TO 121.5Mhz.	
Artex ELT345 emergency locator	Momentarily press SELF-TEST	
transmitter (Refer to latest	until LED blinks once.	
Description, Operation, Installation	Listen for 3 audible sweeps on	
and Maintenance Manual)	receiver (takes about 1s).	
	Duran an under un an activation	
	Buzzer sounded upon activation.	
	Note LED activity. LED turns off	
	after approximately 1s.	
GPS (Aera 500)	Powered on, charging	
GPS (Aera 660)	Powered on, charging	
Standby/analogue compass	Magnetic heading correct,	
Standby/analogue compass	correction card completed.	

If aircraft DOES NOT have fuel selector, skip this section

FUEL SELECTOR	CLOSED
FUEL PUMP	ON

Test Item:	Test Description:	Satisfactory/Comment:
Fuel pump	Audibly confirm on	
Fuel pressure	Reading zero bar/psi	

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FUEL SELECTOR		OPEN
Test Item:	Test Description:	Satisfactory/Comment:
Fuel pressure	Reading MINIMUM 0.15 bar (2.2 psi)	
FUEL PUMP		OFF
Test Item:	Test Description:	Satisfactory/Comment:
Fuel pressure	Reading drops to zero bar/psi	
AVIONICS SWITCH		
Test Item:	Test Description:	Satisfactory/Comment:
Garmin G5 electronic flight instrument	Confirm external power	
MGL xTreme-EFIS	lost, operating on battery. Confirm off	
MGL iEFIS Explorer	Confirm off	
Dynon SkyView SV-HDX800	Confirm external power	
Hour meter	lost, operating on battery. Confirm correct reading	
noul meter	(zero for new aircraft that	
	have not been run)	
12V auxiliary power	Confirm powering a test	
	accessory	
MASTER SWITCH		OFF
51. 5		
ALL SWITCHES		CONFIRM OFF
ALL CIRCUIT BREAKERS		CONFIRM ALL IN
ALL CINCOTT DIVLANCING		CONTINIVI ALL IN

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System Check Snags

Note all snags and unsatisfactory items found during the inspection. Return this form to the Production Manager for rectification.

Serial Number:	Registration:	Date of initial inspection:

Snag No:	Description:	Rectification Action:	Rectification Date:	Signature:

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FLIGHT CONTROLS CHECK

The flight control rigging report below must be conducted by an individual trained in the use of the cable tension gauges, inclinometer and rigging procedures. The tensions and deflections *must* be cross checked by the Assembly Manager and countersigned. Once completed, the form must be returned to this pack.

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Flight Control Rigging Report

Serial No:							
Registration:							
Date:							
Equipment:							
Cable/Control:	Diameter (mm):	Nominal tension (kg):	Measured Tension (kg):	Satisfactory/ Comment:	Nominal Deflections (°):	Measured Deflections (°):	Satisfactory/ Comment:
Aileron (L)	2.5	25lb (+5/-0)			Up: 25° (±2°)		
Aileron (R)	2.5	25lb (+5/-0)			Down: 18° (±2°)		
Elev. (Top)	2.5	21kg (+2/-1)			Up: 25° (±1°)		
Elev. (Bot)	2.5	21kg (+2/-1)			Down: 15*/20° (±1°)		
Rudder (L)	2.5	20kg (±2.0)			Left and Right: 25°		
Rudder (R)	2.5	20kg (±2.0)			(±1°)		
H-Tail (L)	4.0	60kg (±4.0)			*Note: Aircraft with a s	tick mounted brake le	ever will have lower maximum
H-Tail (R)	4.0	60kg (±4.0)			downward elevator def	lection.	
Wing (L)	3.0	160kg (±8.0)					
Wing (R)	3.0	160kg (±8.0)					
Fuselage(L)	2.5	80kg (±4.0)					
Fuselage (R)	2.5	80kg (±4.0)					
Elev. Trim (T)	2.0	26lb (±2lb)			Up: 16°, Down 39°		
Elev. Trim (B)	2.0	26lb (±2lb)					
ABT (L)	1.5	18lb (±2lb)			Take-off elevator trim	Aligned -3° to -8°	
ABT (R)	1.5	15lb (±2lb)			range placard	(±2°)	

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Static Flight Control Check Report

Note: This must be carried out after the Flight Control Rigging has been completed.

Nosewheel aircraft must have the tail lowered to raise the nosewheel off the ground during these checks.

Test Item:	Test Description:	Satisfactory/Comment:
	Full range of elevator motion smooth with no judders, abnormal sounds or abnormal forces.	
Elevator	Free-play <5mm at tip of stick with elevator held in place externally.	
	Full range of aileron motion smooth with no	
	judders, abnormal sounds or abnormal forces.	
Ailerons	Free-play <10mm at tip of stick with ailerons held in place externally.	
	Full range of rudder motion smooth with no	
	judders, abnormal sounds or abnormal forces.	
Rudder	Free-play <5mm at pedals with rudder held in place externally.	
Combined primary	Combined pitch, roll and yaw inputs across the	
controls	entire control range possible with no judders, abnormal sounds or abnormal forces.	
Elevator trim	Full range of trim tab motion smooth with no judders, abnormal sounds or abnormal forces.	
	Movement of both is free and correct, throttles	
Throttles	move together, and both throttles hit stops	
	simultaneously.	
	With ailerons centralised, flaps are aligned with	
Flaps	ailerons and top of fuselage. Deployment is symmetrical, action of the lever and locking	
	mechanism is free and correct.	
		1

The above checks have been carried out and any snags identified were rectified during the inspection. If rectification of these snags required adjusting the control system, the tensions and deflections of the affected controls were rechecked and there was no change to the values noted in the Flight Control Rigging Report.

Checked by: _	
Signed:	
Date:	

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WEIGHT AND BALANCE

It is a legal requirement that a mass and balance calculation be performed before each flight for the particular load case of the aircraft. The following form should be used, in conjunction with the empty aircraft data in section 2.1.4 of the detailed maintenance procedures manual. Once completed, fill in the table below and ensure that the 'total' values fall within the allowable range shown. Three limits of the allowable range are shown; two dotted lines, and the ultimate solid upper line. Refer to section 2.4 of the POH for the maximum mass permissible in your licensing category. It is recommended that the operator keep photocopies of this page for regular operational use.

Item		Mass	х	Arm	=	Moment
Empty	aircraft		х		=	
Pilot a	nd passenger		х	580	=	
Fuel:	Litres x 0.734 = kg US Gal x 6.126 = lbs		х	1085	=	
Upper	baggage		х	1075	=	
Lower	baggage		х	1600	=	
		Add column				Add column
TOTAL						

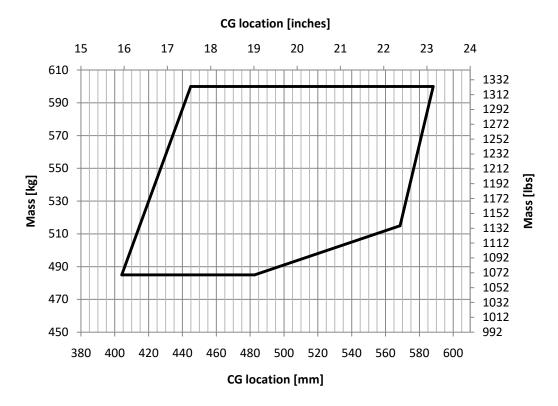


Figure 3.1.9.1: Mass vs. CG go/no-go graph

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PRE-FLIGHT INSPECTION

Test Item:	Test Description:	Satisfactory/Comment:
	Cabin	
Flaps	up	
Forward wing tube attachment	Check for condition, cracks,	
	securement	
Aileron control cables (above	Check running on pulleys, no	
panel and into wing)	fraying or corrosion	
Magnetos	Off	
Master	Off	
Fuel pump	Off	
All other switches	Off	
Nose wheel support tube bolts	Check (if applicable)	
Brake lines	Check for continuity, leaks	
Brake fluid	Check sufficient	
Fuel selector	Off	
BRS safety pin	Removed	
Park brake	Set	
Trim tab	Set in take-off range	
Elevator and rudder control	Check running on pulleys, no	
cables (below centre console)	fraying or corrosion	
,	, ,	
	Rudder turnbuckles secure at	
	pedals	
Fuel quantity	Check loaded as per weight and	
	balance	
BRS rocket expiry date (as	Check	
applicable)*		
BRS rocket (as applicable)*	Secured	
BRS parachute container (as	Secured, nuts in place	
applicable)*		
BRS activation cable (as	Check condition	
applicable)*		
Aft wing tube attachment	Check for condition, cracks,	
	securement	
Windscreen condition	secure and uncracked	
Requisite paperwork	on board	
	Aft baggage area	
Fuel cap	Secure	
Baggage	Secured, loaded as per weight	
	and balance	
BRS parachute expiry date (as	Check	
applicable)*		
BRS parachute container Velcro	Secured	

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flap (as applicable)*		
BRS activation cable (as	Check condition	
applicable)*		
Fuel breather tubes	Unobstructed and secure	
Fuel filters	No cracks, connections secure	
Control cables	Unobstructed	
Baggage area floor	Check for loose nuts	
	Exterior	
Exterior lights	Check	
Left side of aircraft		
Door hinges	Secured	
Wing strut bolt and fuselage	Check for condition, cracks,	
attachment bracket	securement	
Jury strut	Check for condition, cracks,	
,	securement	
Jury strut attachment brackets	Check for condition, cracks,	
,	securement	
Aileron bell crank	Check	
Aileron and wing brace cables	Check locking wire, turnbuckles	
Main strut attachments	Check for condition, cracks,	
(internal)	securement	
Vortex generators	All in place	
Wing leading edge	Check condition	
Pitot cover	Removed	
Pitot tube	Aligned, total pressure and static	
	holes free of debris	
Tie down	Removed	
Wing zips	All 5 closed	
Wing tip	No cracks, light undamaged	
Aileron hinges and bolts	Check pin in place, split pin	
	secure	
Aileron movement	Free and correct	
Left aileron sail (top and bottom)	Check condition (tears,	
	discolouration, fraying threads)	
Flap hinges and bolts	Check pin in place, split pin	
	secure	
Left flap sail (top and bottom)	Check condition (tears,	
	discolouration, fraying threads)	
Antennae	Check for condition, securement	
BRS straps (as applicable) *	Check for condition, securement	
BRS tie-wraps (as applicable) *	Check for condition, securement	
Aft wing tube attachment	Check for condition, cracks,	
	securement	
Left wing sail (top and bottom)	Check condition (tears,	

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		Sky/Ceach
	discolouration, fraying threads)	
Landing gear leg	Check for condition, cracks,	
	securement	
Landing gear leg attachment	Check for condition, cracks,	
bolts	securement	
Brakes	Check condition, no leaks	
Tyre	Check condition, proper inflation,	
	no wear or ballooning	
Rim	Check wheel axle nut split pin	
	present and secure	
Fuel leaks/drips	Check no pooling on ground or	
	moisture on strainers or	
	gascolator	
Fuel strainers	Fuel free of water and	
	contaminants	
	Strainers and gascolator valves	
	close properly with no leaks	
Baggage compartment zip	Closed	
Aft fuselage	Check condition (tears,	
-	discolouration, fraying threads)	
	Aft of aircraft	
Dorsal fin attachments (fore and	Secure	
aft)		
Horizontal tail attachment bolts	Check for condition, cracks,	
and nuts (fore and aft)	securement	
Vertical tail attachment bolts	Check for condition, cracks,	
and nuts (fore and aft)	securement	
Empennage bracing wires	Check tight, safety wire locked	
Elevator hinges and bolts	Check pins in place, split pins	
8-1-1-1	secure	
Elevator movement	Free and correct, no play	
	between elevators	
Trim tab	Pins secured in place, hinges wire	
	locked and Bowden cables	
	secured	
Elevator bell crank (left and	Check for cracks	
right)	encon for endens	_
Tail tie down	Removed	
Rudder hinges and bolts	Check pins in place, split pins	
Radaci iiiiges and boits	secure	_
Tail wheel (as applicable)	Check	
Tail wheel (as applicable) Tail wheel springs and linkages	Check	
(as applicable)	CHECK	
Right side of aircraft	Chack condition /toors	
Aft fuselage	Check condition (tears,	
	discolouration, fraying threads)	

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Baggage compartment zip	Closed	
Brakes	Check condition, no leaks	
Tyre	Check condition, proper inflation,	
	no wear or ballooning	
Rim	Check wheel axle nut split pin	
	present and secure	
Landing gear leg	Check for condition, cracks,	
	securement	
Landing gear leg attachment	Check for condition, cracks,	
bolts	securement	
Wing strut bolt and fuselage	Check for condition, cracks,	
attachment bracket	securement	
Aft wing tube attachment	Check for condition, cracks,	
	securement	
BRS straps (as applicable) *	Check for condition, securement	
BRS tie-wraps (as applicable) *	Check for condition, securement	
Flap hinges and bolts	Check pin in place, split pin	
	secure	
Right flap sail (top and bottom)	Check condition (tears,	
	discolouration, fraying threads)	
Aileron hinges and bolts	Check pin in place, split pin	
Birlington of the control	secure	
Right aileron sail (top and	Check condition (tears,	
bottom)	discolouration, fraying threads)	
Aileron movement	Free and correct	1
Tie down	Removed	
Antennae	check	
Vortex generators	All in place	
Wing leading edge	Check condition	
Aileron bell crank	Check	
Aileron and wing brace cables	Check locking wire, turnbuckles	
Main strut attachments	Check for condition, cracks,	
(internal)	Securement Charles and distinction and dis-	
Jury strut	Check for condition, cracks, securement	Ш
Jury strut attachment brackets		
Jury strut attachment brackets	Check for condition, cracks, securement	
Wing zinc	All 5 closed	
Wing zips Wing tip	No cracks, light undamaged	
Right wing sail (top and bottom)	Check condition (tears,	
Right wing sail (top and bottom)	discolouration, fraying threads)	
Door hinges	Secured Secured	
Front of aircraft	Scoured	
Windscreen attachment screws	check	П
Oil quantity	Check	
	CHECK	
	1	1

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		Sky/Ceach
	Confirm no leaks	
Oil cap	secured	
Throttle	exercise and observe cable	
Choke	exercise and observe cable	
Cowling	secure	
Overflow pipes	Check secured outside of cowling	
	with tie wraps	
	No leaks	
Radiators	Check unobstructed	
	Check no leaks	
Air filter	check unobstructed	
Coolant	Check sufficient	
		_
	Check no leaks	
Propeller blades	Check for nicks, cracks, damage	
Spinner	Secure	
Nose gear leg (as applicable)	Check condition	
Nose wheel and tyre (as	Check inflation, condition	
applicable)		
Exhaust	Check condition	
Bottom of main fairing	Check condition	
Bottom of cowling	Check for leaks	
· · · · · · · · · · · · · · · · · · ·		

Pre-Flight Inspection Snags

Note all snags and unsatisfactory items found during the inspection. Return this form to the Assembly/Production Manager for rectification.

Snag No:	Description:	Rectification Action:	Rectification Date:	Signature:
Serial Number:	Regio	l stration:	 Date of initial inspection: _	

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FLIGHT TEST

Documents Check

Ensure that the following actions have been completed, all snags have been rectified and the following forms have been reinserted into this document.

1)	Completed Systems Checks Snag sheet	
2)	Completed Flight Control Rigging form	
3)	Completed Empty Weight and Balance form	
4)	Completed Pre-Flight Snag sheet	
App.	Test flight weight and balance (Appendix A)	
	Mass: 600kg ± 12kg	
	CG: 30%-34% MAC	
App. B	Flight test cards	

General Information:

Aeroplane Type:	NW/TW	Pilot:	Aerodrome:	
Registration:		Observer:	QNH:	
Serial No:		Date of flight:	OAT (°C):	

Notes (area/airspace that flight is to be conducted in, applicable special provisions or notes regarding the flight, etc):				

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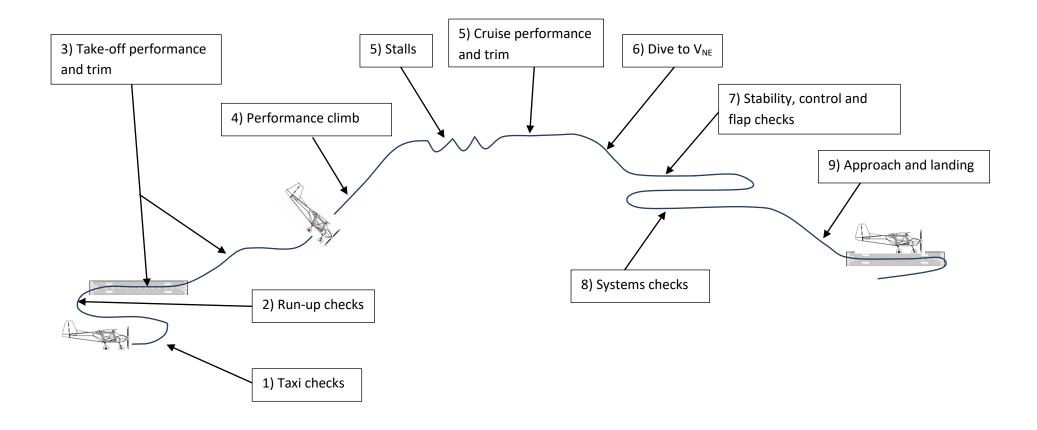


POH Performance Graphs:

Performance data applicable to the following POH:

Document Number	
Revision	

Flight Profile



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Taxi Test

After engine start and after start procedural items accomplished.

Conduct tests on paved, level surface.

Test Item:	Test Description:	Satisfactory/Comment:
Park brake system pressure	Sufficient to hold aircraft at 2500 RPM.	
Park brake	No binding on release	
Left toe brake	Sufficient to hold aircraft at 2500 RPM.	
Right toe brake	Sufficient to hold aircraft at 2500 RPM.	
Both toe brakes (symmetry)	Equal action when stopping from rolling taxi, no binding or vibration	
Brake pedal/handle forces	No excessive force or repeated pumping for required effect	
Pedal alignment	Centreline tracking with pedals centralised	
Nose wheel steering	Correct action and no abnormal forces or vibrations	
Tail wheel steering	Tail wheel can be unlocked and reengaged during tight turns in both directions	
	Quick pull closed from 2500 RPM does not cut engine (both sides)	
Throttle idle	Applying pressure against the aft throttle stop does not cut engine (both sides)	

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Flight Test

These sections below only describe tests to be accomplished for post-production acceptance. The pilot is still required to carry out all procedures and checks, as well as monitor all instrumentation as would be necessary for operational flight.

Engine Run Up

Test Item:	Test Description:	Satisfactory/Comment:
Oil temperature	Time to 50°C appropriate for temperature (10min for warm OAT, 20min max for cold OAT)	
Ignition circuit check	Test at 4000 RPM Max drop: 300 RPM Max split: 150 RPM	L drop R drop
Park brake system pressure	Sufficient to hold aircraft at 4500 RPM	
Maximum power check	Correct static RPM and MAP. Min 5200 RPM MAP 25-28" Fuel press: Min 0.15 bar (2.2psi) Oil press: 4.0-5.0 bar (58 to 73 psi)	RPM MAP Fuel Press. Oil Press.
Idle power check	Idle range between 1700 and 2000 RPM	Idle RPM
Altimeter check	Within 70ft of airfield elevation	Altimeter reading:

Take-Off

- 1. Note compass heading when aircraft aligned on runway.
- 2. Conduct a normal take-off as per the recommended procedure in the POH.
- 3. Estimate the take-off distance based on easily identifiable runway markings/taxiways/landmarks for comparison to the POH value.
- 4. Passing 300ft AGL at V_Y , switch off SBY fuel pump and note behaviour of fuel pressure.
- 5. Release pedal and note ball deflection at V_Y .

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·	pehaviour during take-off (unusu fficulty, control forces, buffet).	SkyReach ual tail swing, difficulty raising tail,
*It is recommended that a sc	ale image of the runway in use i	be obtained using Google Earth so that a
		n be obtained using easily identifiable
ground features, runway ma	rkings or taxiways.	
Test Item:	Test Description:	Satisfactory/Comment:
Line-up compass check	Confirm compass indicating runway heading ±3°	RWY Hdg: Comp. Hdg:
	Recorded conditions	RWY: Wind: P. Alt: OAT:
Normal take-off as per POH with take-off flap set. Rotate at V_R = 53mph.	Take-off distance in general agreement with POH	POH: Flight:
	No excessive stick forces during initial climb with trim at T/O position	
	Less than one ball slip deflection when flying pedals free at V _Y	Ball deflection:
	No abnormal handling during take-off	
Mechanical fuel pump	Fuel pressure did not reduce below minimum value when	
	SBY fuel pump switched off. If it did, fuel pressure	Pump ON: bar/psi

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	recovered within 5s*.	Pump OFF:	bar/psi

^{*}Note: If fuel pressure dropped below limits and recovered, confirm that the fuel pump part number is 893110. If not, investigate problem.

5-minute Climb

- 1. Conduct a 5-minue timed climb in the stated conditions while recording the applicable parameters every 30s.
- 2. At the end of the 5 minutes, confirm performance of electric fuel pump BEFORE reducing power.

Conditions:

- Smooth air.
- Full throttle.
- Clean configuration.
- Altimeter: 1013 hPa, 29.92" Hg.
- Speed as per V_Y schedule in POH. Maintain within 2mph.
- Fuel pump OFF.

Note: If OAT is unavailable in the aircraft, a forecast OAT must be used for the calculation. State whether quoted OAT is forecast (F) or indicated (I).

Fuel QTY at start of climb: Aircraft mass (kg):

Time (min)	Altitude (1013 hPa)	IAS (mph)	OAT (°C)	Oil temp (°C)	Coolant temp (°C)	RPM:	MAP (in. Hg)
0							
0.5							
1							
1.5							
2							
2.5							
3							
3.5							
4							
4.5							
5							

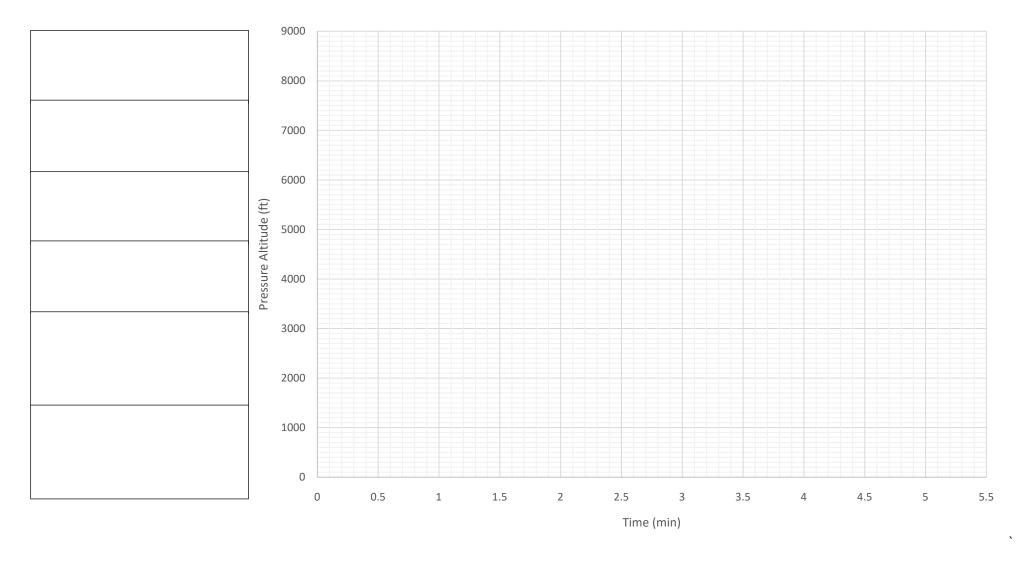
Analysis:

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- 1. Plot the pressure altitude and time on the grid provided on the next page.
- 2. Draw a straight line representing a good average through the test data.
- 3. Calculate the gradient of the line and record the average rate of climb (R/C).
- 4. Determine the average altitude and OAT for the test range.
- 5. Determine the expected R/C for the test conditions from the POH and compare with the measured data.

Climb Performance Plot



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Test Item:	Test Description:	Satisfactory/Comment:
Climb performance	Calculated climb performance	
	within POH value -50ft/min	
	+150ft/min.	
Engine temperatures	Engine temperatures within	
	prescribed limits for entire climb	
Engine pressures	Oil and fuel pressures within	
	prescribed limits for entire climb	
Electric fuel pump pressure	Confirm performance of SBY fuel pump while at full throttle after climb completed	Pressure (pump off): bar/psi
		Pressure (pump on): bar/psi

Stalls

- 1. Conduct 3 level stalls in each configuration in the following conditions.
- 2. Additionally, conduct 3 clean stalls from both left and right 30° turns under the same conditions.
- 3. Trim the aircraft at 65mph IAS with idle power set before initiating the stalls.

Note: Do not conduct the stalls if substantial or unexpected out-of-trim forces in roll or yaw are detected in flight.

Conditions:

- Throttle closed (idle power).
- 1mph per second rate of speed reduction (requires descent).
- Altimeter: 1013 hPa, 29.92" Hg.
- Trim speed of 65mph IAS.
- Ensure ball centred for all stalls.
- Once trimmed, confirm that the rudder pedals are within 2cm of neutral and that the RPM is between 2400 and 2800 RPM.

Stall	Level-Clean	Level-Take-off	Level-Landing	Clean-left turn	Clean-right turn
Trim speed:					
POH Vs:				N/A	N/A
Average test Vs (IAS):					
Stick at aft stop?	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Wing drop?	Left/Right/Nil	Left/Right/Nil	Left/Right/Nil	Left/Right/Nil	Left/Right/Nil
Angle of wing					

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drop:			
Other characteristics (buffet, abnormal control inputs, etc):			

Test Item:	Test Description:	Satisfactory/Comment:
Roll trim with flap	No change in roll trim of the	
selected	aircraft when flaps were lowered	
Stall speed	Average tested level stall speeds	
	within +3/-5 mph of POH stall	
	speed	
	Level stalls displayed no tendency	
Level stall	to drop a wing or depart into a spin	
characteristic	An aerodynamic stall was achieved	
Characteristic	at or before the stick was at its aft	
	stop	
	Wing drop experienced during	
Turning flight stall	turning flight stalls was less than	
	15°	
characteristics	Turning stalls displayed no	
	tendency to depart into a spin	

Cruise Checks

- 1. Fly at a nominated pressure altitude and accelerate the aeroplane slowly in <u>level flight</u> from 65 mph until the speed at which 5500 RPM is achieved.
- 2. Note any change in roll and yaw trim while accelerating.
- 3. Record required parameters for comparison to POH figures.
- 4. Set power and trim for 80 mph IAS, release pedal and note ball deflection.
- 5. Check windscreen and door seals.

Fuel QTY: Pressure alt:		OAT:	lculated aircr	raft mass (kg):
	Flight test values	POH values (N	ЛСР cruise)	Difference (%)
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		Sky/ceach
IAS (mph):		
RPM:	5500	
Fuel flow (L/h):		

Test Item:	Test Description:	Satisfactory/Comment:
Cruise performance	The maximum level flight speed	
	was within 5mph of the POH	
Roll and yaw trim	At 80mph there was less than half	
	ball deflection with pedals free.	
	There was no significant tendency	Ball deflection:
	to roll.	
Wind screen and	Seals of doors and windscreen	
door fits	flush. No draughts from edges of	
	wind screen or doors, other than	
	those associated with open vents.	

Dive to V_{NE}

- 1. Ensure sufficient altitude to conduct the following tests at V_{NE} .
- 2. From the trimmed level condition at 5500 RPM, push the nose down gradually to enter a dive while reducing the throttle to keep the RPM at 5500 or just below.
- 3. Dive until V_{NE} (103mph IAS) is obtained.
- 4. Confirm yellow arc on EFIS from 89mph to 103mph.
- 5. Confirm red line and warning flag on EFIS at 103mph.
- 6. If any airframe or control vibration is felt, immediately reduce speed by gradually pulling the control stick back and by closing the throttle.
- 7. Make small (2cm) longitudinal, lateral and directional control inputs individually to check the controllability at V_{NE} .
- 8. Briskly reduce the throttle to idle while pitching the nose down to maintain V_{NE} . Note the stabilised engine RPM and recover.

Idle RPM at V _{NE} :	Max. speed achieved:	
-------------------------------	----------------------	--

Test Item:	Test Description:	Satisfactory/Comment:
Vibrations	No unusual airframe or control	
	vibrations at V _{NE}	
Control	All flight controls were responsive	
	to small movements and	

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SkyReach

		210000000000000000000000000000000000000
	corrections at V _{NE} (within ±2mph)	
Engine speed limit	Maximum continuous RPM was not exceeded with the throttle set to idle at V_{NE}	
Airspeed indication	Yellow arc and red line/warning flags function from V _{O/A} to V _{NE}	

Stability and Control Checks

Roll

- 1. Trim at 60mph IAS in level flight in the clean configuration.
- 2. Enter a co-ordinated left-hand turn to 45° bank and increase power to maintain altitude.
- 3. Start a timer and apply full right stick while maintaining co-ordinated flight. Stop the time as the aircraft rolls through 45° right bank. The aircraft should roll from 45° left to 45° right in $3s \pm 1s$.
- 4. Recover to wings level at 60mph IAS and repeat in the other direction.

Yaw

- 1. Trim at 70mph IAS in level flight in the clean configuration.
- 2. Using the rudder pedals, roll the aircraft to 20° left bank and maintain altitude by pulling back on the stick, but do not apply any aileron input. Increase power as necessary to maintain altitude.
- 3. Gently roll the aircraft to 20° right bank using only the rudder pedals while maintaining altitude without applying any aileron input. The manoeuvre should require less than 2cm of pedal deflection in either direction and should be accomplished without exceeding 1 ball out on the slip indicator.
- 4. Recover to wings level flight using pedal and elevator input only.

<u>Pitch</u>

			ff configuration.

- 2. Push the stick forward until the speed increases to 83mph (V_F) .
- 3. Slowly release the stick and note the aircraft response and the airspeed that the aircraft finally settles at. The aircraft should slowly oscillate in speed and pitch with decreasing amplitude until settling at or near the trim speed (within 4mph of trim speed).

Flown trim speed:
Response options:
1. Did the aircraft oscillate slowly back towards the trim speed? Yes \Box/No
2. The IAS at which the aircraft settled:
3. If the answer to question 1 above was 'No', describe the response of the aircraft:

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Test Item:	Test Description:	Satisfactory/Comment:
	Roll authority sufficient to conduct	
	roll reversals through 90° bank in	
	3s ± 1s in both directions at 60mph	
Lateral-directional	Yaw authority and lateral stability	
control authority	sufficient to conduct roll reversals	
	at 70mph without exceeding 1 ball	
	deflection and 2cm of pedal input	
	in either direction	
Free return trim	Upon release of the pitch control at	
speed	V _F , the aircraft returned to within	
	4mph of the trim airspeed	

Wing Flap Checks

- 1. Trim in level flight at 80mph IAS in the clean configuration.
- 2. Lower the flaps to the take-off position and lower the nose to maintain 80mph without changing elevator trim.
- 3. Lower the flaps to the landing position without changing elevator trim.
- 4. Accelerate to 83mph IAS and check for vibration.

Test Item:	Test Description:	Satisfactory/Comment:
Flap limit speed	No vibrations, abnormal buffet or control difficulty associated with high speed flap use	
Flap trim	No significant tendency roll with flaps in either position	
Flap control	The flap selector handle locks were engaged and released with ease	

Electrical System and Instrumentation Checks

Test Item:	Test Description:	Satisfactory/Comment:
Full system load	Electrical system supplies all	
	services when placed under full	
	load. No circuit breakers tripped.	Voltage:

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		Current:
	Frequency, volume and squelch adjustment	
COM radio	COM radio clarity when both transmitting and receiving	
	COM radio can monitor a secondary frequency without breakthrough	
Transponder	Altitude and location readout assessed with ATC facility, IDENT function working	
	Using aircraft power supply	
GPS	Position, track and groundspeed assessed for accuracy	
Engine instrumentation	Oil press, oil temp, fuel press, coolant temp, EGT, CHT and fuel flow appropriate for phase of flight	
EFIS ADI	Pitch and roll indications in agreement with horizon, heading in general agreement with GPS, altitude, heading, speed and altitude bugs tested, ground speed in agreement with GPS ground speed, vertical speed indications appropriate	
Warning flags and annunciators	No warning flags or annunciator lights appeared during flight, other than those associated with low speed (stalls) or V _{NE} .	

Approach and Landing

- 1. Conduct a normal approach and landing in the landing configuration as per the recommended procedure in the POH.
- 2. Check that with pedals free, slip is less than 0.5 ball deflection.
- 3. Check that the aircraft has no significant tendency to roll during final approach.
- 4. Check brake effectiveness at high speeds during roll out.
- 5. Conduct a landing in the take-off configuration at the speed recommended in the POH and confirm no abnormal tendency to float or sink.
- 6. Conduct a landing in the clean configuration at the speed recommended in the POH and confirm no abnormal tendency to float or sink.

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•	nal behaviour during landing (unusurol difficulty, control forces, buffet).	SkyRo ual tail swing, difficulty lowering tail,
Test Item:	Test Description:	Satisfactory/Comment:
	Rudder trim less than 1 ball	

Test Item:	Test Description:	Satisfactory/Comment:
	Rudder trim less than 1 ball deflection	
	No significant tendency to roll	
	No objectionable control forces	
		RWY: Wind:
Normal landing as per POH with landing flap set. Approach at V _{Ref} .	Recorded conditions	P. Alt: OAT:
	No abnormal handling during the landing	
	Landing run is in general	
	agreement with POH	POH: Test:
	Brakes effective and	
	symmetrical. No binding or vibration	
Approach and landing in the take-off and clean configuration.	Landings conducted in the clean and take-off configurations according to the speeds in the POH showed no handling abnormalities	

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General Controllability and Trim

Test Item:	Test Description:	Satisfactory/Comment:
	No unusual handling characteristics associated with operating the aircraft within the speed range	
	from V _{SO} to V _{NE}	
	The aircraft did not display a	
	tendency to roll in one direction	
	during normal operations	
	The pedal forces to maintain ball	
General	centred during straight and level	
controllability	flight were not objectionable	
	The flap selector handle locks were	
	engaged and released with ease	
	The controls operated freely and	
	smoothly in flight without any	
	significant vibration	
	Engine operation was smooth	
	without any abnormal sounds,	
	vibration or smells	

Post-Flight Snags

Note all snags and unsatisfactor	v items found during t	the flight. Return this form to the	he Production Manager for rectification.

Serial Number:	Registration:	Date of initial inspection:

Snag No:	Description:	Required Test*:	Rectification Action:	Rectification Date:	Retest Satisfactory: Retest date:	Signature:

^{*}Required Action: NIL, GC (Ground Check), FT (Flight Test)

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POST FLIGHT QC INSPECTION This section must contain: • Individual Checker List • QC Inspection Snag Sheet (combined snags from all checkers)



		SkyReach
Inspector:		
Serial No:		
Registration:		
Date:		
	Fuselage, engine and undercarriage	
Test Item:	Test Description:	Satisfactory/Comment:
Propeller	Check no damage	
	Paint work:	
Top cowling and spinner	Check no scratches	
	Check clean	
	Paint work:	
Bottom cowling	Check no scratches	
	Check clean	
Windscreen	Check no scratches	
Willuscreen	Check clean	
	Paint work:	
Main fairing	Check no scratches	
	Check clean	
Chook fairings (if tail	Paint work:	
Cheek fairings (if tail- dragger)	Check no scratches	
uraggerj	Check clean	
	Check no brake fluid leaks	
	Check clean:	
	Spring gear	
	Wheels and tires	
	Paint work:	
Inboard fairings	Check no scratches	
	Check clean	
	Sail condition:	
	Check surface clean	
Fundana	Check no damage	
Fuselage	Check inside for obvious damage	
	Check inside for loose parts or tools	
	Check lower baggage compartment clean	
		•
	Left Side Cabin and Restraints	
Test Item:	Test Description:	Satisfactory/Comment:
Desificación	Check no scratches.	
Door frames	Clean.	

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	i	SkyReach			
Cabin door (external - left	Check no scratches.				
side)	Clean.				
	Windows clean and free of scratches.				
	Right Side Cabin and Restraints				
Test Item:	Test Description:	Satisfactory/Comment:			
Door frames	Check no scratches.				
Door Trames	Clean.				
Cabin door (external -	Check no scratches.				
right side)	Clean.				
	Windows clean and free of scratches.				
	Central and Aft Cabin				
Test Item:	Test Description:	Satisfactory/Comment:			
	Check no scratches.				
Centre console	Clean.				
	Storage area clean and empty.				
	Instrument Panel				
Test Item:	Test Description:	Satisfactory/Comment:			
Panel	No scratches.				
	Left Wing				
Test Item:	Test Description:	Satisfactory/Comment:			
	Check no scratches and clean:				
Left Wing struts	Struts				
	Jury struts				
	Sail condition:				
Left Wing	Check surface clean				
	Check no damage				
	Check for pitot static flag				
	Paint work:				
Left Wingtip	Check no scratches				
	Check clean				
	Check lens cover is clean and no scratches				
		1			
	Right Wing	0.11.6			
Test Item:	Right Wing Test Description:	Satisfactory/Comment:			

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	Check no scratches and clean:	
Right Wing struts	Struts	
	Jury struts	
	Sail condition:	
Right Wing	Check surface clean	
	Check no damage	
	Paint work:	
Right Wingtip	Check no scratches	
	Check clean	
	Check lens cover is clean and no scratches	

Empennage				
Test Item:	Test Description:	Satisfactory/Comment:		
Havi-autal atabiliaana and	Sail condition:			
Horizontal stabilisers and elevators	Check surface clean			
elevators	Check no damage			
Manthalatak Paranak	Sail condition:			
Vertical stabiliser and rudder	Check surface clean			
	Check no damage			
	Sail condition:			
Dorsal fin	Check surface clean			
	Check no damage			

Post-Flight	QC Snags
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Note all snags and unsatisfactory items found during the inspection. Return this form to the Assembly/Production Manager for rectification.				
Serial Number:	Registration:	Date of initial inspection:		



Snag No:	Description:	Rectification Action:	Rectification Date:	Signature:

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6
CLB

Snag No:	Description:	Rectification Action:	Rectification Date:	SkyReach Signature:

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AIRCRAFT DOCUMENTATION CHECKLIST

This checklist serves to ensure that all applicable documentation is present and valid.

Description:	PASS	FAIL
Confirm ATF expiry date:		
Certificate of Registration present		
Confirm Aircraft Radio Station License Expiry Date:		
Confirm Certificate of Release to Service Expiry Date:		
Confirm Mass & Balance Report Expiry Date:		
Confirm Flight Folio No:		
List of visual signals and procedures for use by intercepting and intercepted aircraft.	n/a	n/a
The Aircraft Equipment List is present, complete and appropriately signed.		



CERTIFICATE OF RELEASE TO SERVICE

Aircraft Registration:		
Aircraft type:		
Serial No.:		
every way serviceable for flight and that	the above-mentioned aircraft and all its equipall maintenance has been carried out in accoss amended, and the aircraft's Accepted Maint	ordance with
on (date), whic	hours of	
Licence No.:		
Signed:		
Date:		



INSPECTION AND SERVICING OF OPERATIONAL AND EMERGENCY EQUIPMENT

EMERGENCY EQUIPMENT CHECKLIST

Table 11: Emergency Equipment Checklist

	rable 11. Emergency Equipment effective					
Item	Description	Qty	Check	Expiry Date		
No.						
1	Sealed First Aid Kit	1				
2	Cockpit Fire Extinguisher	1				
3	Signal Strips Set	1				
4	BRS System*					

^{*} Only installed in some aircraft, mark "n/a" for aircraft in which it isn't installed.



PERIODIC INSPECTION FOR FIRE EXTINGUISHER

An inspection of the fire extinguisher needs to be conducted as part of the pre-flight check.

SCOPE AND DETAILS OF FIRE EXTINGUISHERINSPECTION Each person performing the inspection shall complete paragraph A. A) FIRE EXTINGUISHER CHECKS **PASS** FAIL Identify if the fire extinguisher is present in the cockpit. Check if it is accessible or blocked by any 1. Check accessibility equipment or other objects that would make it difficult to access during an emergency. Check that the clamp holding the fire extinguisher secure in the cockpit. Look for the fire extinguishers serial number, and check if the fire extinguisher label is readable. Check if the cylinder and other external parts are 2. Examine the physical free of corrosion, dents and other signs of damage. state Check if the locking pin is intact between the operating level and handle, and if it is secured by the seal. Examine where the gauge needle is on the extinguisher. A needle in the left red zone means that the fire extinguisher is depressurized and 3. Check the pressure warrants a recharge. gauge A needle within the green zone is good. A needle in the right red zone signals a danger of over-pressure. Check if the inspection tag is present, and check the 4. Check the inspection last inspection date and next inspection due date if tag

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so.



Inspection Findings:			Sky/Ceach
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STAMP			
			_
SIGNATURE			
]

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PERIODIC INSPECTION FOR FIRST AID KIT

An inspection needs to be conducted in accordance with the below instructions on the first aid kit:

- When the expiry date noted on the security seal has been reached.
- Before the next flight if the kit has been opened for use.

A simple check for the presence of the security tag and of the expiry date needs to be done as part of the pre-flight check.

SCOPE AND DETAILS OF FIRST AID KIT INSPECTION Each person performing the inspection shall complete paragraph A.					
A)	FIRST AID KIT CHECKS	PASS	FAIL		
Check the kit against the checklist	 Break the security seal on the medical kit if it has not already been opened. Check each item in the checklist for both quantity present and expiry date. 				
2. Replace items as required.	 Remove any items that have been used, damaged or are expired and replace them with new ones. Replenish the kit and ensure that the required number of each item is present. Note the expiry dates in the right hand column of the below checklist. 				
3. Seal the kit for reissue	 Once the kit is packed, secure the 2 zips with a red security seal inverted. Using a permanent marker, write the expiry date of the medical kit on the seal. The expiry date of the gate is the earliest date of expiry of the items contained within. 				

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Table 12: Check list for First Aid Kit

Item No.	Description	Qty	Check	Expiry Date
1	Non woven triangular bandage 90cmx90cmx124cm	2		
2	Burn shield emergency burn care dressing 100mmx100mm	1		
3	Scissors	1		n/a
4	Digital thermometer with battery	1		n/a
5	Plasters	5		n/a
6	Safety pins	10		n/a
7	Steri-Strip 3mmx75mm reinforced skin closures	1		
8	Paper tape roll	1		n/a
9	First aid instructions booklet	1		n/a
10	Mirror			n/a
11	Splint			n/a
12	Emergency blanket			n/a
13	Sterile gauze compress 75mmx75mm sachets	2		
14	Flexivial water for injections	2		
15	Matches and strike pad set (3 matches)	1		n/a
16	CPR mouth piece	1		n/a
17	First aid pressure dressing 150mmx200mm	1		n/a
18	Confirming bandage 7.5cmx4.5m	1		n/a
19	Conforming bandage 50mmx4.5mm	1		n/a
20	First aid pressure dressing 75mmx100mm	1		n/a
21	Elastoplast tape 25mmx4.5m	1		n/a
22	Cetrimide solution wound cleaner	1		
			<u> </u>	

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	SIGNATURE		

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PERIODIC INSPECTION FOR BRS SYSTEM

A basic inspection of the BRS system needs to be conducted as part of the pre-flight check. For all more detailed procedures pertaining to the system including remedial actions should expired items be found, please refer to the following documents available from the airframe manufacturer:

- 1. BRS Parachute Installation Manual
- 2. BRS Instructions for Continued Airworthiness

	SCOPE AND DETAILS OF BRS SYSTEM INSPECTION Each person performing the inspection shall complete paragraph A.					
A)		BRS SYSTEM BASIC CHECKS	PASS	FAIL		
-	 Check the pin is secure in the handle prior to any system manipulation. 	Check that the pin is in the handle to prevent accidental actuation of the system.				
	 Check for expiry date exceedances 	 Both the soft pack and the rocket have a unique expiry date on them. Gain access to the baggage compartment and check the expiry dates on both components have not been exceeded. 				
3	3. Check the cable	A cable links the rocket to the handle in the cockpit, running under the fuel tank and control cable pulleys and terminating in the handle secured to the centre consol. • Check the routing and ensure that there are no obvious kinks in the outer cable that might stop the movement of the inner cable. • Check for any obvious chaffing along the cable.				

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