Aircraft serial no. RSUK/CVLN/			erm Storage and Return t Vorksheet (Cavalon)	to Service	Aircraft registration no: G- Worksheet date:		3-
		Unique worksheet no.	(if required/used):	required/used): Worksheet		/pe: STSRTS	
Task No	Task	Description	Repetition or comments	Actions taken &	comment	Eng'r initial	A3-7 Certifier
Purp perio supe Refe Thes	period of storage/disuse, normally between 6 months and one year after last flight. Should the 1-year period be exceeded then form F179 supercedes this document. Refer also to Aircraft Maintenance Manual RSUK0288. These checks are designed for owner operators and do not require an authorised engineer, unless rectification work is required.						
NB:	paring for Sto	he aircraft will be stored in	a clean, drv. well-ventilated (but not ne	cessarily heated)	building with a se	aled floor.	Should this
not l	be the case (e.g wet	floor, condensation, signi	ficant dust) then RSUK should be consu	ilted to consider	whether additiona	l actions are	e required.
P1	Drain fuel		Do not store for subsequent replacement. Mogas should not be used after 3months				
P2	Arrange 240V AC r battery charger	nains supply for Cetek	Battery will be charged via the external charging point as noted in S5 below.				
P3	Prepare engine in a recommendations	accordance with Rotax	Ref: Rotax Heavy Maintenance Manual Section 71-00-00 para 5.2				
P4	Ideally protect with	RSUK aircraft cover					
P5	Ensure rotors in line fitted. Wrap rotor he	e with aircraft and tie-down ead in a dust-sheet	Alternatively remove rotors and store on a wall rack (support under blade CG) or break-down and store in suitable container				
P6	Fit cover to pitot-tul breathing)	be (with small vent for	Must have flight-safety lanyard or be attached to tie-down cord				
P7	Cover static vents (porous adhesive ta	2) with a piece of micro- pe	Each tape must be attached to a lanyard of conspicuous colour				
	Intentionally blank		Intentionally blank	Intentionally blan	k	Intentionally blank	Intentionally blank

Aircraft serial no. RSUK/CVLN/		Aircraft Short	Term Storage and Return Worksheet (Cavalon)	to Service	Ce Aircraft registration no: G- Worksheet date:		G-
	Unique worksheet no		b. (if required/used):		Worksheet ty	pe: STSRT	S
Task No	Task	Description	Repetition or comments	Actions taken &	comment	Eng'r initial	A3-7 Certifier
In-s	In-storage task list – the 3month interval						
S1	1 Jack aircraft, spin wheels. Check tyre pressures and tyres for cracks		Spinning avoids flats and brake binding No cracks will be acceptable for Return to Service	Interval 1			
				Interval 2			
				Interval 3			
				Interval 4			
S2	Check engine for c shaft/flange, conne	orrosion (propeller ctors)	Clean and protect with WD40 if required	Interval 1			
				Interval 2			
				Interval 3			
				Interval 4			
S3	Check for oil or coo	lant leaks	Arrange rectification if found.	Interval 1			
				Interval 2			
				Interval 3			
				Interval 4			
S4	Check for bird or ro droppings	dent nests, wash-off	Air filters, exhaust, behind instrument panel (use mirror and torch), enclosure	Interval 1			
			Pull-back stick gaiters for access to controls.	Interval 2			
				Interval 3			
				Interval 4			

Aircraft serial no. RSUK/CVLN/		Aircraft Short T	ort Term Storage and Return to Service Worksheet (Cavalon)Aircraft registration n Worksheet date:		ation no: (e:	n no: G-	
		Unique worksheet no.	(if required/used):		Worksheet type: STSRTS		6
Task No	Task	Description	Repetition or comments	Actions taken &	comment	Eng'r initial	A3-7 Certifier
S5	Check the open-cir battery. This may b	cuit voltage (OCV) of the e done by attaching the parging cord to the	If less than 12.6VDC (i.e. 2.10 volts per cell) then charge for a 12 hour period or until this OCV is reached. Use only the	Interval 1			
	aircraft's external p lower engine cowlin	ower point (on the RH ng), separating its in-line	Cetek charger or the battery may be damaged.	Interval 2			
	connector and usin connector terminals	g a multimeter at the two s. There must be no		Interval 3			
	external load on the is taken.	e battery when the reading		Interval 4			
S6	Periodically clean a	aircraft including rotors	Do not use washing-up liquid				
	Intentionally blank		Intentionally blank	Intentionally blan	k	Intentionally blank	Intentionally blank

Ret	Return to Service task list				
	Airframe Inspection				
1	Remove upper engine cowling. Thoroughly check aircraft for evidence of missing parts or instruments.	Check against aircraft SAC that aircraft is still to the required build standard.			
2	Op/C - nosewheel fork for free operation.	The nose-wheel fork must rotate freely to the limit stops in the nose of the aircraft. There should be minimal play in the bearings of the nose-wheel fork.			
3	Inspect – tyres for wear or damage. Replace if needed.	No fabric to show through the tread area. Recommended 0.5mm min tread. Ensure no flat spots or wall cracks from storage			
4	Check - tyre pressures & tyre creep (mainwheels 1,8 to 2.2bar if heavily loaded, nose 1,8 to 2.2bar)		Pressures OK Nose		
			Main LH	Main RH	
	Electrical/instruments				
5	Inspect – sealed battery for leakage	Ensure battery is charged and holding charge (use Cetek charger for 12 hour period or follow S5 above).			
6	Op/C Check strobe function if fitted				
7	Op/C check nav light function if fitted				
8	Op/C check backup fuel pump functions				
9	Op/C check landing light function if fitted				
	Rotor head				
10	Check and Service/lube - teeter bolt & bearings	Regrease via nipple on top of rotor (where fitted). Grease with Castrol LM or equivalent . Nut must not be more than finger tight, about 1 to 2Nm, and the bolt able to turn by hand.			
11	Check four split pins present and secure	Main bearing, teeter bolt, pitch and roll bolts. Check is required even if there have been no disassembly actions.			

12	Op/C - Check Pitch Trim cylinder for free function and shaft damage or excess seal				
	leakage.				
13	Op/C - Check Roll Trim cylinder (if fitted) for				
	free function and shaft damage or excess seal				
	leakage.				
	Rotor Head Controls				
14	Service/lube - clean rod ends (if appropriate)				
15	F/C- rotor head reaches pitch and roll stops				
16	Inspect - all cables undamaged, all bearings	Pull-back stick gaiters for access to			
	free, all bearing retaining rivets secure. No	controls. Check also for insect or animal			
	foreign bodies or debris in control tubes.	residue.			
17	Op/C - for free play in stick control eg				
	bearings or wear				
	Rudder controls				
18	Op/C - Check pedals for ease of movement				
19	Inspect for cable freedom of movement at tail				
	and pedal attachment, and turnbuckle				
	wirelocking. Check Nicopress sleeves for				
	signs of movement				
20	Inspect - rudder cables for frays, corrosion,	Particular attention to cable exit from			
01	wear or chaffing.	Keel-tubes			
21	Inspect - tail bearings for looseness and				
22	Increation of operation	Include waggling the side fine in ease of			
22	demondo	include waggling the side lins in case of			
22	linepoet red and and plate at base of	internal structural damage.			
25	rudder for free rotation, security & wear				
24	Inspect – security of rudder trim tab				
25	Check that all control system bolts are correct				
	items, properly fitted and tight				
26	Engine	For engine servicing refer to the engine m	anual issued with the aircraft (Rotax		
	NOTE! All engine checks to be in	912ULS or 914UL). The full annual engine	e service is required only when no		
	accordance with manufacturers manual!	engine servicing has been carried out in the	he last 12 months. Otherwise apply		
		'on condition'.			
		Servicing must be carried out in line with,	and recorded on, the Rotax service		
		schedule contained within the 'Line Mainte	enance' manual for the engine fitted.		
		The Rotax service centre will advise addit	ional checks subject to the method		
		of storage used. (e.g. borescope checks).			

27	Wirelocking – ensure present on: Oil tank drain plug, Aftermuffler (transverse types), Oil banjo under engine, Carb air filters (if wire-locked), Oil pump	If the magnetic inspection plug or the crai	nkshaft locking screw plug are	
20		disturbed then any wire-locking present m	nust be properly reinstated	
29	Inspect – oil tank breather pipe for blockage			
30	Service/lube - Lubricate carburettor choke levers if no free movement	HSC2000 spray grease or equivalent		
31	Service/lube - Ensure choke and throttles move freely from stop to stop, and that turbo detent can be felt correctly. Ensure cables are synchronised.			
	Fuel system			
32	Check - whilst fuel tank(s) empty, check that low fuel warning LED lights. Service/lube –Fuel tanks. Flush tanks with about 1 litre of fuel then fill with fresh. Ensure water drain points function correctly on refill, and confirm no tank debris. Check – when fuel tanks filled check that low fuel warning light extinguished	There may be a small amount of leakage until the rubber seals swell due to the effect of the fuel. If the fuel drain wirelock is removed, it MUST be replaced, with a dual inspection signature.	1 st inspection Name: A3-7 authorisation no: Sig: 2 nd inspection Name: A3-7 authorisation no: Or, qualified pilot licence no: Sig:	
33	Inspect - fuel tank cap for seal deterioration & security of fit, and cleanliness of vent hole.			
34	Op/C - functionality of fuel gauge	ie that the reading matches that shown on the tank sight gauge.		
35	Inspect – fuel-tank breather pipe for blockage	If 914UL engine also inspect clear airbox/carb-tray drain pipe		
36	Inspect - all hoses for cracks and deterioration in the visible areas adjacent to the barbed metal fittings	Change as required		
	Pre rotator			

37	Op/C – whilst turning the uj located at the top of the mast by hand (thru a full rotation) – check drive shaft joints for free movement and bearings for play etc			
38	Inspect - Ensure slider shafts move freely, and are greased			
	Trim System, Rotor Brake & Pneumatics			
39	Inspect – all hoses for leaks and slave cylinder(s) for looseness			
40	Op/C – Roll trim. Operate roll trim (where fitted) fully left. Ensure panel indicator shows fully left. Then operate trim fully right. Ensure indicator shows fully right			
41	Inspect – compressor. Listen for undue noises in operation.			
42	Op/C - Full functional check pneumatic system – refer as required to the maintenance manual for fault finding and rectification, and a more comprehensive understanding of the test background.	With selector set to 'Brake' position, engage brake by pressing button, confirm operation, and that function is acceptable. Pressurise to maximum. Change to flight – check for 3 to 8 sec max to release air from brake system. In 'Flight' position check that trim goes on and off in same direction as button (inc left stick if fitted). In 'Flight' position, stick forward. Start pre rotator. Ensure bendix drive cylinder rises to engage, and when the stick is pulled back it disengages. Stick to front, release pre rotator and confirm that pressure is applied to trim and stick comes back slightly. In 'Brake' position, put 3 bar pressure on and ensure pre rotator does not function Press the 'Interlock release button' and ensure that pre rotator functions with brake engaged.		
43	Op/C – check compressor can give full pressure of 7bar (~8bar with new compressor). If under 5.5bar, either find leak or replace		Note pressure obtained	
	HTC Propeller			

44	Check - prop bolt torque stripe between bolt thread and propeller hub has not been broken (indicating that the bolt has slackened).	If torque stripe broken or missing, remove bolts, inspect, and refit with loctite 243 – and re-apply torque stripe (Engineer task!) Removal of spinner (if fitted) will be required.		
45	Inspect - blades to manufacturers recommendations for any damage, splits etc.	Repair only as manufacturer's recommendations (see AMM RSUK0288)		
	Rotors			
46	Inspect - blades to manufacturers recommendations for any damage, splits etc.	Repair only as manufacturer's recommendations (see AMM RSUK0288)		
	Other			
47	Remove pitot and 2-off static vent covers			
48	Inspect - Confirm all placards readable and in line with Operating Limitations	See Pilots Handbooks for placards required – or consult CAA TADs publication.		
49	Inspect all seat belt attachment points for tightness and security			
50	Inspect each seat belt for damage or frays, and for security of main connection			
51	Op/C - Instrument checks	Transponder - Check that mode S code matches G-INFO database. Full functional check highly recommended. Radio – confirm PTT buttons cause 'T' on panel.		
	Final ground run checks prior to release			
52	Inspect - Power plant and coolant system for leaks			
53	Inspect – security of oil-thermostat insulator pad.			
54	Inspect – instruments for measurements consistent with ambient conditions			
55	Replace upper engine cowling and check all access covers secure			

56	Op/C - verify correct function of Fire-Warning system	Turn on Master switch. The fire warning lamp will pulse red three times to confirm correct system function and then go off if the system functions normally. If not it will stay solid red (system fault), in which case stop and investigate			
57	Securely tie aircraft down and run to full power. Ensure engine rpm achieves at least 5,400 on one fuel pump only, and with both pumps running.		RPM achieved:		
58	Complete mag drop checks at 4,000rpm	See Pilots Handbook RSUK0287 for limits	Mag drop#1		
			Mag drop#2		
59	Confirm 'Gen' light is on when engine not running, and off (or flickering gently) when running at above 2000rpm.				
60	Confirm low fuel lamp is not lit (providing the fuel covers the sensor)				
61	Ensure all log book entries completed appropriately, and service record up to date				
Conf	irm Sanvice bulleting incorporated (from DSLIK w	obsite full list available with applicability			
Com	In Service bulletins incorporated (non NSOK w				
Conf	rm Rotax Service bulletins incorporated (from Ro	otax website)			
Conf	irm Mandatory Permit Directives incorporated (fro	om CAA website, & CAP747).			
Up-to	-date information must be checked!				
CAP	747 Document date or issue checked, plus notes	5:			
EAS	A MPD or AD check (EASA website): note date c	hecked and any actions required			
Conf Note	irm compliance to BG06 Type Approval Data She	et (TADS) for Calidus			
Task	s completed by (name):				
			Engine hours logged:		
Signa	ature:	Initial:			
Date	:	(to compare to check sheet)	Airframe hours logged: Aircraft hourmeter hrs logged:		
		,			

Permit Maintenance Release: The work recorded above (all been completed to my satisfaction and in that respect the air considered fit for flight.	craft is Comments:			
Signature:	Initial:			
Date:	(to compare to check sheet)			
Inspector or pilot licence no.: Company Approval ref				
Inspector Authority: CAA letter ref 9/ dated				
Note to Engineer or inspector; remember to reference this worksheet and RSUK0288 within the logbooks, together with your CAA authorisation code or pilots licence no. Work undertaken may be noted on this worksheet, or if required on another sheet (such as F093) also referenced in the logbook. Modifications undertaken must be noted with their MC approval no. Check the back pages to complete these too for modifications, service bulletins, MPDs, etc.				

Appendix

Requirements for certifying signatures/initials on this worksheet

With the exception of "Permitted Pilot Maintenance" (see the relevant RSUK Aircraft Maintenance Manual and CAA publication CAP 733), all maintenance work on RSUK gyroplanes must be certified by a CAA A3-7 Authorised Person.

Case 1: for work not involving engine controls, or flying controls, or vital structural points

The person(s) performing the work should complete the worksheet columns as below:

- If the person completing "Eng'r" does not have A3-7 authorisation there must be a second initial by an A3-7 authorised person in each adjacent "A3-7 certifier" cell, denoting acceptance of the task specified.
- If the person has A3-7 authorisation the "Eng'r" cell should be struck out and a single entry of initials made in the A3-7 certifier cell

Case 2: for work where engine controls, or flying controls, or vital structural points are disturbed, where a duplicate inspection is required (and shown in the worksheet).

The person(s) performing the work should complete the worksheet columns as shown above and repeated below:

- If the person completing "Eng'r" does not have A3-7 authorisation there must be a second initial by an A3-7 authorised person in each adjacent "A3-7 certifier" cell, denoting acceptance of the task specified.
- If the person has A3-7 authorisation the "Eng'r" cell should be struck out and a single entry of initials made in the A3-7 certifier cell

In addition to the above there is a requirement for inspection, then duplicate inspection (by an independent person) of the finished task:

- The A3-7 engineer certifying the task must enter his name, CAA authorisation number, and full signature under "1st inspection".
- The independent second person must enter his name, CAA authorisation number or Pilots Licence number, and full signature under "2nd inspection".

This second person must be suitably qualified and may be:

- another A3-7 authorised engineer
- a qualified gyroplane pilot. In this case the pilot must append his Pilot's Licence number to his signature.

It is the second signatory's responsibility to ensure he/she understands the task and what it is they are inspecting and signing for.

Verification of Initials, Signature and Authorisation

The person performing the work must complete the "Tasks completed by" statement towards the end of the worksheet. The A3-7 authorised engineer must complete and sign the "Permit Maintenance Release" on the last page of the Worksheet.