D II : 137							
Propeller serial No:		Woodcon	Woodcomp SR3000/3 VP Propeller		Aircraft registration no. G-		
			r Service Worksheet		Aircraft serial no. RSUK/ Worksheet date:		
Tsk No.	Tasl	k Description	Repetition or comments	Actions taken &	comment	Cert initial	
Purpose of this worksheet: To be applied for the 300hr service of Woodcomp variable pitch propeller as fitted to MT-03 and MTOsport Gyroplanes. If prior to permit renewal, the owner is also referred to Permit renewal requirement list on the RSUK website. Refer to manual RSUK0076. Some of the checks and serviceability are 'on condition', meaning the Engineer has the responsibility to decide if it is acceptable for service. NOTE! Unless this service incorporates an annual inspection, checks for CAP747, 661, BG01, BG02 and EASA are optional.							
	Installa	ation Inspection					
1	any significant grease Check the a/c installa all propeller blades a	e propeller, paying attention to e loss around the blade roots. ation for any damage. Check nd spinner for damage.	Advise owner if any damage observed.	A/c owner may a			
2	necessary, transport to Service Centre. The sactioned on site with exists.	r and brush carrier. If to RSUK or Woodcomp service is recommended to be the aircraft if a suitable area	Pack carefully to avoid damage in transit The propeller assembly may be irrepairably damaged by bending loads exerted onto the blades by incorrect packaging.	A/c owner may a	action this item		
3	propeller. Unless visi	ompletely dismantle the ually damaged leave the ce on the respective propeller	See service manual RSUK0076				
4	Clean and inspect the	e slip-rings and backing disk	No cracks permissible, any brush-wear- groove max depth 0.2mm				
5	Check electrical resis ring interface	stance across the brush to slip	Typical resistance measurement across the brush/slip ring interface : $- \text{Inner\& outer ring } : 0,05\Omega$ $\text{Tolerance } : R_{p < 0,1} \ \Omega$				
6	Check electrical resistring	stance between slip ring slip	Insulation resistance slip ring / slip ring : 30M Ω Tolerance : $R_{i}\!>\!20M$ Ω				
7	Check electrical resis	stance, slip ring to earth	Tolerance : R_{i} > 20M Ω				

Propeller serial No:

Woodcomp SR3000/3 VP Propeller 300hr Service Worksheet

Aircraft registration no. G-Aircraft serial no. RSUK/ Worksheet date:

			WOIKSHEEL date.	<u>.</u>	
Tsk No.	Task Description	Repetition or comments	Actions taken & comment	Cert initial	
8	Clean and inspect bearings, gears, worms for wear, corrosion or cracks.	Use hand magnifier at least x12			
9	Inspect the central cone. Replace if any indentation greater than 0.2mm deep, or turn through 60 deg.	Use dial gauge to assess depth of indentation			
10	Inspect brushes, replace if worn by more than 15 mm. OEM length is 20mm	Brush length may be determined in-situ by pushing fully home into the brush carrier. No more than 17mm sub-flush acceptable. Re wirelock screws after refitting the brush box			
11	Inspect blade to blade hub area for evidence of cracks, loose attachment or other defect	If found, replace!			
12	Inspect both hub halves for any cracks (visually) or significant wear in bearing locations or gear rubbing locations	If cracks found, replace. If wear found that could lead to looseness, backlash, or other defect, either replace or contact RSUK.			
13	Replace blade gears				
14	Replace worm gears				
15	Check axial clearance of worm gears				
16	Inspect power unit visually for cracks or elongated holes. Check drive pinion and front bearing condition. Check function on bench-test at 12VDC	Max current draw is 3amps when fitted to the propeller			
17	Inspect satellite gears	Use hand magnifier at least x12			
18	Inspect all cables for cracked/worn insulation and stability of installation. Check the three microswitches for correct function				
19	Reassemble the propeller using new bolts, nuts and O-rings. If they have been disturbed then reset the three cams to the original positions. Do not fit spinner Check the blade pitch angles, pitch backlash and axial backlash	Maximum blade to blade difference 0.5deg. Ensure backlash is not included in check by rotating each blade to the fine or coarse stop position before measuring	Record blade pitch angles fine and coarse Blade 1 Blade 2 Blade 3 Hub angle		
20	Bench-test operation of propeller				

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Propel	ler seria	al No:

Woodcomp SR3000/3 VP Propeller 300hr Service Worksheet

Aircraft registration no. G-Aircraft serial no. RSUK/ Worksheet date:

		Worksheet date:			
Tsk No.	Task Description	Repetition or comments	Actions taken & comment	Cert initial	
21	Static balance the propeller if any major part (eg a blade) has been replaced; alternatively dynamically balance when fitted to the aircraft.				
22	Fit propeller and brush carrier to aircraft, but do not fit spinner. Use new nylock nuts and tab washers				
23	Using the CSC-1/RS controller's manual function set propeller to fine limit. Check proper function of the two microswitches and security of the two cams				
24	Using the CSC-1/RS controller's manual function set propeller to coarse limit. Check proper function of the single microswitch and security of the single cam.				
25	Replace spinner	Use Loctite 243 on the retaining screws Ensure plastic washers in place under screw heads.			
26	Using the CSC-1/RS controller's manual function move propeller from coarse to fine limit. Listen for untoward noises.	Leave at fine limit for subsequent ground run			
	Final ground run checks prior to release				
27	Warm up engine with pilot in front seat. Confirm propeller cycles manually from fine to coarse stops.				
28	Dynamically balance the propeller				
	Complete the release documentation				
29	Ensure all log book entries completed appropriately				
	offirm Service bulletins incorporated (from RSUK web list available with applicability)				
Confirm Mandatory Permit Directives incorporated (from CAA website, CAP747 and 661)					

				RotorSport UK Ltd			
Propeller serial No:		Woodcomp SR3000/3 VP Prope 300hr Service Worksheet			peller	Aircraft registration no. Aircraft serial no.	G-
					t	RSUK/ Worksheet date:	
Tsk No.	Tasi	k Description	Repetiti	on or comments	Actions taker	1 & comment	Cert initial
(CAP 747 Document	t date or issue checked, plus not	es:				
(CAP 661 Document	t date or issue checked, plus not	es:				
	MPD or AD check (ons required	EASA website): note date chec	ked and				
		01 or BG02, Type Approval da t. Note any non compliances an					
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	or or licence no.: ny Approval ref						

Note to Engineer; remember to reference this worksheet and RSUK0012 (MT-03) or044 (MTOsport) within the logbooks, together with your CAA authorisation code. 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.

dated

Inspector Authority: CAA letter ref 9/