### Addendum 1 to Cavalon Gyroplane Maintenance Manual

# For the Rotorhead III modification (MC-382) and the Garmin G3X installation (MC-389)

### Document number RSUK0412

This document must be read in conjunction with the current issue of Cavalon Maintenance Manual RSUK0288

# **RotorSport UK Ltd**

Poplar Farm Prolley Moor Wentnor Bishops Castle SY9 5EJ

Company Reg No 5486550

Phone: +44 (0) 1588 505060 Email: info@rotorsport.org

### CAA Approval No: DAI/9917/06

### **Applicability**

Aircraft Registration:	G-
Aircraft serial no.	RSUK/CVLN/
Engine type:	Rotax 912ULS & 914UL
Engine serial No:	
Rotor blade type & diameter:	Autogyro 8.4m RotorSystemII TOPP (blue cap, silver clamp profile)
Propeller type:	HTC 1,73m (with or without spinner), or, IVO-prop DL3-68 in-flight variable pitch (with or without spinner)

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### **SECTION 1**

### AMENDMENTS TO THE SCHEDULE

 Where & when necessary RotorSport UK Ltd (hereafter referred to as RSUK) will issue updates to this maintenance standard, and will notify known owners to review the changes via the RSUK website with changes appropriately identified by a strike in the margin.
 Aircraft operators are responsible for ensuring that amendments to their publication are carried out immediately and in accordance with instructions contained in amendment transmittal letters (where issued).

ISSUE NUMBER Initial	DATE	INSERTED BY	ISSUE NUMBER 4	DATE	INSERTED BY
1	24.07.18	arrent of the	5		
2			6		
3			7		

Issue	Change summary
1	First issue
2	Intentionally blank
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This manual cor	Statement of initial certification: nplies with British Civil Airworthine	ess Requirements
RotorSport UK I	td approval signatures for the abo	ove manual issue.
Signature: G. Shaw Dec 1 2018 2:54 PM DocuSign.	Signature: G. Speich Oct 1 2018 9:38 AM DocuSion	Signature: Ally 3 Oct 2018
Position: Engineering Manager	Position: Head of Engineering	Position: Head of Airworthiness

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### **SECTION 2 Introduction**

2.1. This Addendum is issued to provide interim information to owners and maintenance personnel pending a major revision of Cavalon Maintenance Manual RSUK0288.

2.2 It relates to two particular topics:

- (i) Introduction of Rotorhead III under modification MC-382
- (ii) Introduction of the Garmin G3X EFIS-system under modification MC-389

### **SECTION 3 Periodic and Functional checks.**

3.1. The checks defined later in the text are carried-out prior to flight and should be repeated each time the aircraft is inspected by an engineer every 100 flight-hours or Annually (whichever is sooner)

### **SECTION 4 Maintenance requirements**

4.1. Rotorhead III is subject to certain maintenance requirements, as defined later in the text.

4.2. The Garmin G3X EFIS system is essentially maintenance-free, other than periodic checks as to calibration.

### SECTION 5 Rotorhead III

### Introduction

Rotorhead III was introduced to the Cavalon gyroplane under modification MC-382 in mid-2018. It is constructed of aluminium and stainless steel parts and its configuration enables optimisation of flight characteristics.

It also enables higher pre-rotation speeds, this achieved by a different ratio ring-gear, different shaft bearings, and an improved pre-rotator gearbox. Rotation up to 320rpm is now possible, leading to much reduced take-off run.

To aid the Pilot in use of the faster pre-rotation capability an amber "clutch" warning light is fitted to the top of the instrument panel. By means of a simple electronics module in the wiring harness the "clutch" warning light indicates to show:

- a continuous light clutch slipping excessively during pre-rotation
- a blinking light intended take-off run with low rotor RPM, with danger of bladeflapping occurring

Rotorhead III is also fitted with two separate braking systems:

- the original arrangement engaged by the flight/brake selector switch
- a secondary brake pad on the gimbal block engaged by full forward movement of the control stick. This front brake pad also acts as the primary pitch control stop, effective before the secondary pitch control stop fitted at the stick. The rear pitch limit stop is between the gimbal block and the bridge, and is not adjustable,

It should be noted that although Rotorhead III accommodates the standard Rotorsystem II rotor variants its teeter tower is different to previous designs so only complete Rotorhead systems should be fitted. The correct teeter tower and teeter block combination MUST be used! Short tower plus short block, tall tower plus tall block.

Because the rotorhead is more compact than the original version, a longer mast is also used.

The pre rotator gearbox is also changed to version III. This version includes an improved bearing arrangement and clutch plate material to withstand the increased loadings at 320 rotor rpm.

#### Note that at this time only the TOPP rotors are approved for use with the Rotorhead III configuration.

### Critical Parts

The critical parts list is revised as below when Rotorhead III is fitted:

Item & pt No.	Reason/comment
Rotor Head Upper Assembly,	Correct assembly of pitch, roll, main bearing and teeter
22.5mm sideplates	bolts/nuts and splits pins is essential for safe operation
46048	
Upper Mast assembly	Must be inspected carefully for cracks or other weld problems
45983 with bushes	
45980 welded assy	
Teeter tower III assy	No cracks or damage permitted for safe operation
45567	
Main bearing nut	Critical part, must be properly tightened and correctly fitted
23796	with a split pin.
Main bearing bolt	Critical part, must be properly tightened and correctly fitted
45132	with a split pin.
Rotorhead bridge	Must be inspected carefully for cracks or other fractures
43575	

Rotorhead sideplates 22.5mm 45121 45966	Must be inspected carefully for cracks or other fractures
Gimbal block assy 36128	Must be free of cracks or fractures for safe operation
Pitch and roll bolts 20675 43673	Must be correctly fitted, with no cracks or damage



Exploded view of Rotorhead III

### Procedure for inspection of Rotorhead bridge, bearing and teeter tower

1 Inspect rotor head bridge (4) function and condition, i.e. no misalignment, dents, nicks, corrosion, or cracks. In case of any of the aforementioned is evident or suspected contact RSUK customer support.

2 Inspect, whether the upper bearing holder for the Bendix shaft is properly secured to the bridge, rectify as required..

3 Inspect teeter stops for correct attachment and condition.

4 Inspect teeter tower (3) for correct attachment and condition, i.e. no cracks. In case of cracks or unusual condition or appearance contact RSUK customer support.

5 Perform torque-check on main bolt nut (2). In order to do so, remove and discard split pin (1) and torque-check castle nut with 120 Nm.

6 If torque-check fails, check carefully for any damage of the teeter tower or bearing or system. Only if there is no damage, retorque. If in doubt, contact RotorSport.UK Ltd

7 Insert new split pin (1) and secure. Make sure that ends do not contact rotating parts.

# WARNING: Do not fly gyroplane in case torque-check failed unless properly corrected. Clearly mark as unserviceable and prevent from use until resolved.







### Procedure for inspection of Rotorhead III gimbal head

1 Inspect gimbal head for correct function and condition, i.e. check split pins (10) and (18) are installed and no play at the hinge points is evident.

2 Verify angles of gimbal head mechanical end stops. In order to do so perform the following work steps:

3 Place gyroplane on level ground with zero roll attitude and lower mast section vertical.

4 Rotate rotor head so that rotor blades (removed!) would point exactly fore-aft. Place inclinometer on top of teeter tower and measure RH and LH end stop angle. Make sure that mechanical stops are reached. Record values.

5 Rotate rotor head so that rotor blades (removed!) would point exactly left-right. Place inclinometer on top of teeter tower and measure FORE and AFT end stop angle. Make sure that mechanical stops are reached. Record values.

6 Verify measured angles comply with the values specified in the corresponding type certificate data sheet. If any of the values differs by more than 1° from the specified value mark component unserviceable and contact RSUK customer support

NOTE! Wear of the rotor brake will allow increased forward travel in the pitch plane. This is permissible. Always ensure that the head reaches the brake before the stick limit stop.

### Procedure for inspection of Pre-rotator upper engagement

Gyroplane must be placed on level ground and restrained (blocks, chocks)

1 Inspect wear pattern and gear mesh of pre-rotator upper engagement. If in doubt, contact RSUK customer support.

2 If the wear pattern is uneven (see photo below), e.g. due to dynamic skew, the prerotator upper engagement /Bendix shaft must be repaired according to 63-11-30 8-2.

3 Inspect backlash of pre-rotator upper engagement. Backlash should be as tight as possible, but also wide enough to allow easy engagement of the pinion into the sprocket in any position.

4 If necessary, have backlash adjusted according to 62-31-00 5-1.

5 Grease with AG-GRS-01 or equivalent.



Wear Pattern (uneven)



Rotorhead III brake pads

Procedure for replacement of rotor brake pads

Gyroplane must be placed on level ground and restrained (blocks, chocks) Rotor system must be removed, see 62-11-00 4-1

1 Unscrew and remove hexagon socket screws (1) with washers (2) of affected brake pad.

2 Replace integrated rotor brake pad assembly (3/4) with new component.

3 Apply Loctite 243 (blue) on screws, re-install hexagon socket screws (1) with washers (2) and torque-tighten.

4 After replacing the front pad, check that the head stops onto the pad before the stick reaches the forward limit stop. Adjust limit stop as required,

### SECTION 6 Garmin G3X EFIS system

An EFIS system supplied by Garmin Aviation Products, the G3X Touch, has been approved for fitment to Cavalon under modification MC-389. To meet BCAR Section T requirements certain conventional instruments must be fitted as primary reference devices. The other instruments are displayed on the Garmin flat-screen display.



The following conventional instruments (as approved under AAN29345) are fitted:

- Airspeed indicator (0-120mph)
- Altimeter (0-20,000ft)
- Magnetic compass (card-compass mounted on the glareshield)
- Slip indicator (in the form of a slip-string attached to the windscreen)
- Rotor rpm gauge (with limitation markings in accordance with T33) (NB: This is optional and may be incorporated into the Garmin display)
- Radio (ATR833 MkII)

The conventional instruments deleted and appearing on the Garmin display are:

- Transponder (TRT800H) (weight 0.6kg)
- CHT or CT gauge (Note Rotax mandatory SB's relating to CT gauge are satisfied by MC-321 and modification MC-389)
- Oil pressure gauge
- Oil temperature gauge
- Engine rpm gauge
- Manifold pressure gauge
- Attitude indicator (optional)
- VSI (2-1/4") or VSI (full size) (optional)
- OAT gauge
- iPad and bracket (optional)
- Audio control

Although not previously fitted exhaust gas temperature (EGT) and fuel pressure are optional items for the Garmin display. Also optional is an ADS-B receiver (GDL 50), this being mounted on top of the glareshield.

The various sensors and modules of the Garmin G3X system are fitted in different locations around the gyroplane, as shown below:



AHRS unit installed in the mid channel, weight ~1.0kg. Bonded to the body floor with structural mastic



Transponder unit located on floor under passenger seat. Weight 1.18kg. Attached by selfadhesive Velcro



EGT sensors mounted into the standard Rotax sensor receptacles



Manifold pressure sensor located in engine bay (attached to engine frame)



Fuel pressure sender integrated into fuel-pipes



Equipment bay mounted Garmin engine information unit. Total weight 0.57kg attached to CFRP bulkhead by M4 cap-screws into threaded inserts

Wiring diagrams pertaining to the G3X installation are shown below.

### Special setup instructions

Comprehensive User and Installation instructions are provided by Garmin and are supplied by RSUK with the gyroplane equipment.

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Con	nection:				Case:	Position on gyro:
Tran	sponder v	wiring har	ness to d	ockpit		behind the cockpit
Plug	no. (wiri	ng diagrar	<u>n):</u>		8 5 2	
	81				2 6 3	
Pin	Color	Lable	Cross mm <sup>2</sup>	section AWG	Function	Note
1	RD		0.35	#22	Power	
2	OG		0.35	#22	Backup power	
3	BK		0.35	#22	Ground	
4			1	-		1
5			1			1
6	BN		0.35	#22	R5-232 Ground	
7	shield		0.35	#22	RS-232 shield	
8	WH		0.35	#22	R5-232 RX	-
9	WH/BU		0.35	#22	KS-252 1X	
Con	nection:	N.			Case:	Position on gyro:
Wiri	ng to tran	sponder			4	under the copilot seat
Piug	89	ng diagran	<u>nj:</u>			
Pin	Color	Lable	Cross mm <sup>2</sup>	AWG	Function	Note
9	WH		0.35	#22	RS-232 RX	
20	BK		0.35	#22	Ground	- 7
21	RD		0.35	#22	Power	
31	WH/BU		0.35	#22	RS-232 TX	
38	BK		0.35	#22	Ground	-
41	BK		0.35	#22	Ground	
42	RU		0.35	#22	Power P5-232 Ground	
59	BK		0.35	#22	Ground	
61	06		0.35	#77	Backup nower	-
62	OG		0.35	#22	Backup power	1

	level to G	зх			Case: 22183	Position on gyro: between the tanks
Plug	no. (wirin	g diagra	m):			
	6				13	
Pin	Color	BT	Cross	awg	Function	Note
1	S GND		0,35	#22	Sensor GND	
2						
3				<i>.</i>		
4	OG/BN		0,35	#22	Fuel level signal	
5				3		
0					р.	
Con	nection:				Case:	Position on gyro:
wiri	ng harness	to engin	e bay		22404	in front of the engine
Plug	no. (wirin	g diagra	m):		· 홍승 위난 흥명	at the left side
	14				3 6 9 12 15 182	
	(Acceptable)	1224	Cross	section	Eunction	part and
Pin	Color	BT	mm <sup>2</sup>	AWG	railcool	Note
Pin 1	YE/WH	BT	mm <sup>2</sup> 0,35	AWG #22	CHT1 right rear	Note
Pin 1 2	YE/WH OG/YE	вт	mm <sup>3</sup> 0,35 0,35	AWG #22 #22	CHT1 right rear CHT2 left front	Note
Pin 1 2 3	YE/WH OG/YE YE	вт	mm <sup>3</sup> 0,35 0,35 0,35	AWG #22 #22 #22	CHT1 right rear CHT2 left front Oil temperature	Note
Pin 1 2 3 4	YE/WH OG/YE YE YE/BU	81	mm <sup>3</sup> 0,35 0,35 0,35 0,35	AWG #22 #22 #22 #22	CHT1 right rear CHT2 left front Oil temperature Oil pressure 12V	Note
Pin 1 2 3 4 5	YE/WH OG/YE YE YE/BU YE/GN	81	mm <sup>3</sup> 0,35 0,35 0,35 0,35 0,35	AWG #22 #22 #22 #22 #22	CHT1 right rear CHT2 left front Oil temperature Oil pressure 12V Oil pressure	Note
Pin 1 2 3 4 5 6	YE/WH OG/YE YE YE/BU YE/GN	81	mm <sup>2</sup> 0,35 0,35 0,35 0,35 0,35	AWG #22 #22 #22 #22 #22	CHT1 right rear CHT2 left front Oil temperature Oil pressure 12V Oil pressure	Note
Pin 1 2 3 4 5 6 7	YE/WH OG/YE YE YE/BU YE/GN	BT	mm <sup>a</sup> 0,35 0,35 0,35 0,35 0,35	AWG #22 #22 #22 #22 #22	CHT1 right rear CHT2 left front Oil temperature Oil pressure 12V Oil pressure	Note
Pin 1 2 3 4 5 6 7 8 9	VE/WH OG/YE YE YE/BU YE/GN	BT	mm <sup>a</sup> 0,35 0,35 0,35 0,35 0,35	AWG #22 #22 #22 #22 #22	CHT1 right rear CHT2 left front Oil temperature Oil pressure 12V Oil pressure	Note
Pin 1 2 3 4 5 6 7 8 9 10	Color YE/WH OG/YE YE YE/BU YE/GN BK	BT	mm <sup>3</sup> 0,35 0,35 0,35 0,35 0,35 0,35	AWG #22 #22 #22 #22 #22 #22 #22	CHT1 right near CHT2 left front Oil temperature Oil pressure Oil pressure Sensor GND Sensor GND	Note
Pin 1 2 3 4 5 6 7 8 9 10 11	Color YE/WH OG/YE YE/BU YE/GN YE/GN BK GN GN1	BI	mm <sup>3</sup> 0,35 0,35 0,35 0,35 0,35 0,35 0,35 0,5 0,5 0,35	AWG #22 #22 #22 #22 #22 #22 #22 #22 #22	CHT1 right rear CHT2 left front Oil temperature Oil pressure 12V Oil pressure Sensor GND Engine RPM Ecf1 + footion)	Note Add this wire Add this wire
Pin 1 2 3 4 5 6 7 8 9 10 11 12	Color YE/WH OG/YE YE YE/BU YE/GN YE/GN BK GN GN1 WH1	81	mm <sup>3</sup> 0,35 0,35 0,35 0,35 0,35 0,35 0,35 0,5 0,35 0,3	AWG #22 #22 #22 #22 #22 #22 #22 #22 #22 #2	CHT1 right rear CHT2 left front Oil temperature Oil pressure 12V Oil pressure Sensor GND Engine RPM EGT 1 + (option) EGT 1 + (option)	Note
Pin 1 2 3 4 5 6 7 8 9 10 11 12 13	YE/WH OG/YE YE/BU YE/BU YE/GN BK GN GN1 WH1	BI	mm <sup>3</sup> 0,35 0,35 0,35 0,35 0,35 0,35 0,5 0,5 0,35 0,3	AWG #22 #22 #22 #22 #22 #22 #22 #22 #22 #2	CHT1 right rear CHT2 left front Oil temperature Oil pressure 12V Oil pressure Sensor GND Engine RPM EGT 1 + (option) EGT 1 - (option) EGT 1 - (option)	Note Add this wire Add this wire
Pin 1 2 3 4 5 6 7 8 9 10 11 12 13 14	YE/WH OG/YE YE YE/BU YE/GN BK GN BK GN GN1 WH1 WH GN2	BI	mm <sup>3</sup> 0,35 0,35 0,35 0,35 0,35 0,35 0,5 0,35 0,3	AWG #22 #22 #22 #22 #22 #22 #22 #22 #22 #2	CHT1 right rear CHT2 left front Oil temperature Oil pressure Oil pressure Oil pressure Sensor GND Engine RPM EGT 1 + (option) EGT 1 - (option) EGT 1 - (option) EGT 2 + (option)	Note Add this wire Add this wire
Pin 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	YE/WH OG/YE YE YE/BU YE/GN BK GN BK GN GN1 WH1 GN2 WH2	51	mm <sup>3</sup> 0,35 0,35 0,35 0,35 0,35 0,35 0,35 0,35	AWG #22 #22 #22 #22 #22 #22 #22 #22 #22 #2	CHT1 right rear CHT2 left front Oil pressure 12V Oil pressure 12V Oil pressure Sensor GND Engine RPM EGT 1 + (option) EGT 2 + (option) EGT 2 + (option) EGT 2 + (option)	Note Add this wire Add this wire
Pin 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	VE/WH OG/YE YE YE/BU YE/GN YE/GN BK GN BK GN GN1 WH1 WH WH2 WH2	51	mm <sup>3</sup> 0,35 0,35 0,35 0,35 0,35 0,35 0,35 0,35	AWG #22 #22 #22 #22 #22 #22 #22 #22 #22 #2	CHT1 right rear CHT1 right rear Oil temperature Oil pressure 12V Oil pressure Sensor GND Engine RPM EGT 1 + (option) EGT 1 - (option) EGT 2 + (option) EGT 2 - (option)	Note
Pin 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	VE/WH OG/YE YE YE/BU YE/GN BK GN BK GN GN1 WH1 WH GN2 WH2	51	mm <sup>a</sup> 0,35 0,35 0,35 0,35 0,35 0,35 0,35 0,35	AWG #22 #22 #22 #22 #22 #22 #22 #22 #22 #2	CHT1 right rear CHT2 left front Oil pressure Oil pressure Oil pressure Sensor GND Engine RPM EGT 1 + (option) EGT 1 - (option) EGT 1 - (option) EGT 2 - (option) EGT 2 - (option)	Note
Pin 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Color YE/WH OG/YE YE YE/BU YE/GN BK GN BK GN BK GN BK GN WH1 WH GN2 WH2	BI	mm <sup>a</sup> 0,35 0,35 0,35 0,35 0,35 0,35 0,35 0,35	AWG #22 #22 #22 #22 #22 #22 #22 #22 #22 #2	CHT1 right rear CHT2 left front Oil temperature Oil pressure 12V Oil pressure Sensor GND Engine RPM EGT 1 + (option) EGT 1 - (option) EGT 1 - (option) EGT 2 + (option) EGT 2 - (option)	Note Add this wire Add this wire
Pin 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Color YE/WH OG/YE YE YE/BU YE/GN BK GN GN1 WH1 WH GN2 WH2 WH2	BI	mm <sup>a</sup> 0,35 0,35 0,35 0,35 0,35 0,35 0,35 0,35	AWG #22 #22 #22 #22 #22 #22 #22 #22 #22 #2	CHT1 right rear CHT2 left front Oil temperature Oil pressure 12V Oil pressure Sensor GND Engine RPM EGT 1 + (option) EGT 1 - (option) EGT 2 + (option) EGT 2 + (option)	Note
Pin 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	VECOOF YE/WH OG/YE YE YE/GN YE/GN BK GN GN1 WH1 WH WH1 WH2 WH2	BI	mm <sup>4</sup> 0,35 0,35 0,35 0,35 0,35 0,35 0,35 0,35	AWG #22 #22 #22 #22 #22 #22 #22 #22 #22 #2	CHT1 right rear CHT2 left front Oil pressure 12V Oil pressure Engine RPM EGT 1 + (option) EGT 1 - (option) EGT 2 - (option) EGT 2 - (option)	Note

17.09.2018 06:48 Harald Stindl

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Cava	lon			G37	COCKPIT Installation	Version: A0
Con G3X	to GMA 2	45			Case:	Position on gyro: behind the cockpit
Plug	no. (wirir 68	ng diagran	<u>n):</u>		100	
Pin	Color	Lable	Cross mm <sup>2</sup>	AWG	Function	Note
1	WH/BU		0.35	#22	CAN-Bus high	
2	WH		0.35	#22	CAN-Bus low	
3 shield					CAN-Bus shield	
4			- P	-		
5	RD7		0.5	#18	Power	
6	WH		0.5	#18	Ground	

GDU XXX - J4x02				Caser	Position on gyro: behind the cocknit			
Plug	no. (wirin	ng diagran	n):			bennie the cockpit		
71								
Pin Color Lable		Lable	Cross section		Function	Note		
1	WH/BU	AUDIO	0.35	#22	AUX IN Signal	drilled with wire at p18		
2								
3								
4	2		8 B			4		
5			10	1				
6				-				
7								
8			11 11	Ú.				
9			< 9	e		-		
10	WH		0.5	#20	Coding bridge	bridged with pin 27		
11			10					
12			1 1					
13				1				
14								
15	BK		0.5	#20	Ground			
16	BK		0.5	#20	Ground			
17	RD		0.2	#24	Configmodul 3.3V			
18	WH	AUDIO	0.35	#22	AUX IN Ground	drilled with wire at p1		
19								
20			0 3	-ci				
21			(i ))	(	E.			
22				-				
23								
24			1					
25								
26			E E	4	i -			
27	WH		0,50	#20	Coding bridge	bridged with pin 10		





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