

# LOG CARD


NOTICE: THIS FORM, DULY UPDATED, MUST FOLLOW THE ASSY

ATA Chapter ..... 31 .....

DESCRIPTION (1)  MULTI - PURPOSE FLIGHT RECORDER	P/N (2) 051615 - 142 - 090	S/N (3) 001927 - 001	MANUFACTURER NAME (4)	ASSEMBLY/MANUFACTURING DATE (5)	RETIREMENT LIFE / TIME LIMITS (6) ON CONDITION
	P/N (7)	S/N (8)	MANUFACTURER NAME (9)	DATE OF CHANGE (10)	RETIREMENT LIFE / TIME LIMITS (11)
	P/N (7)	S/N (8)	MANUFACTURER NAME (9)	DATE OF CHANGE (10)	RETIREMENT LIFE / TIME LIMITS (11)

NOTES

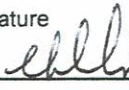

### ASSEMBLY HISTORICAL RECORD

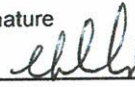

INSTALLATION						REMOVAL							
DATE (12)	R. MARKS (13)	A/C		ASSY		ORGANIZATION, STAMP AND SIGNATURE (18)	DATE (19)	A/C		ASSY		REASON FOR REMOVAL (24)	ORGANIZATION, STAMP AND SIGNATURE (25)
		TOTAL FLIGHT HOURS (15)	TOTAL HOURS (16)	TIME SINCE OH (17)	TOTAL FLIGHT HOURS (20)			ACTUAL TOTAL HOURS (21)	TOTAL HOURS WITH PENALTY FACTOR (22)	TIME SINCE OH (23)			
	TOTAL LANDINGS (15)	TOTAL LANDINGS (16)	LANDINGS SINCE OH (17)	TOTAL LANDINGS (20)	ACTUAL TOTAL LANDINGS (21)			TOTAL LANDINGS WITH PENALTY FACTOR (22)	LANDINGS SINCE OH (23)				
S/N (14)	TOTAL LIFTS/CYCLES (15)	TOTAL LIFTS/CYCLES (16)	LIFTS/CYCLES SINCE OH (17)	TOTAL LIFTS/CYCLES (20)	ACTUAL TOTAL LIFTS/CYCLES (21)	TOTAL LIFTS/CYCLES SINCE OH (23)							
13/10/20	M72-02 31315	3046.5	UNK	NEW		GAM <i>[Signature]</i> 							







1. Approving Competent Authority/Country <b>Civil Aviation Authority</b> United Kingdom		2. AUTHORISED RELEASE CERTIFICATE <b>EASA FORM 1</b>			3. Form Tracking Number PGAF: 51559-1	
4. Organisation Name and Address  <b>CURTISS - WRIGHT</b>		Penny & Giles Aerospace Ltd 15 Enterprise Way, Aviation Park West, Bournemouth International Airport, Christchurch, Dorset, BH23 6HH, United Kingdom. Tel: +44 (0) 1202 034000 An agent of Curtiss - Wright Controls (UK) Ltd.			5. Work Order/Contract/Invoice Cust. PO: 1609 Advice Note: 26219 Work Order: WA00017364	
6. Item	7. Description	8. Part No.	9. Qty.	10. Serial No.	11. Status/Work	
1.	MULTI PURPOSE FLIGHT RECORDER SW110522 Ver 3. Data Rate 512 WPS	D51615-142-090 Issue 1 mod 0	1.00	001927-001	Modified	
12. Remarks Customer: Meridian Aero Parts Repair Works Order: 130082 Repair Completion Date: 26/06/2020 Repair Data: RS187 iss 2 Repaired in accordance with: CMM31-34-22 rev 8 Repair Work Pack Approved By: QA 4 Approved Stampholder Reference: Rowan Miles The work identified in Block 11 and described herein has been accomplished in accordance with 14 CFR part 43 and in respect to that work, the items are approved for return to service under Certificate No PGM501X Repair and return 130082 refers 72 Month Inspection included, SB D51615-31-18, SB D51615-31-29, SB D51615-31-22 Beacon SN AT149327 Expiry date June 2027 No Airworthiness Directives apply.						
13a. Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> approved design data and are in a condition for safe operation. <input type="checkbox"/> approved design data specified in block 2			14a. <input checked="" type="checkbox"/> Part 145.A.50 Release to Service <input checked="" type="checkbox"/> Other regulation specified in block 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part 145 and in respect to that work the items are considered ready for release to service.			
13b. Authorised Signature		13c. Approval/Authorisation Number <b>UK.21G.2144</b>	14b. Authorised Signature  		14c. Certificate/Approval Ref. No <b>UK.145.00218</b>	
13d. Name		13e. Date (dd mmm yyy)	14d. Name <b>JLS MERVILLE</b>		14e. Date (dd mmm yyyy) <b>21 Jul 2020</b>	
<b>USER/INSTALLER RESPONSIBILITIES</b> This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. Statements in blocks 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

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13d. Name		13e. Date (dd mmm yy)	14d. Name <b>TJS</b>		14e. Date (dd mmm yyyy) <b>21 Jul 2020</b>	
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QA12270

## REPAIR REPORT

RFGAL

RR: 130082

Customer Name : Meridian Aero Parts Date Received : 27 Jan 2020  
 Part Number : D51615-102 Serial No. : 001927-001  
 Description : MULTI PURPOSE FLIGHT RECORD Cust Order No. : 1609  
 Last Release Date : 6 Oct 2011 Last RR : 69559  
 Customer Comments : Upgrade to -142-090

Mod.

10

Issue

1

## Evaluation Report Summary

Repair Reference RS 187 Issue 2 QS 14430 Issue 35 CMM 31-34-22 Revision 8

Functional Test  
 FULL FUNCTIONAL ON RECEIPT.  
 72 MONTH INSPECTION DUE.  
 HEAVY MOISTURE CONTAMINATION.

Visual Remarks  
 BEACON BATTERY LIFE EXPIRY DEC 2022 (30 DAY).  
 CONVERSION TO D51615-142-090 REQUESTED (90 DAY).

Signature  Date 10/12/20

## Conclusion

	Yes	No	
Warranty		✓	
Customer Comments	✓		
Repair Actions			72 month inspection - Upgrade to D51615-142-090 Build Standard. Replace OCI on System Rec. Burn In, Vibration and Test to QS14430 Configure as per Customer Request.

## Repair Contract Summary

Action	Yes	No	Action	Yes	No
Test/Inspect			Warranty		✓
Repair			Quote	✓	✓
Overhaul			Proforma		✓
Modify	✓		Repair Cost £		
Other			Delivery : 12 weeks.		
Source Inspection		✓	Incoterm : DAP		
Export Licence		NA			
End User Certificate		NA			
P/N Release		D No.	Iss.		Mod. State
Configuration Number			Data Rate		
Final Clearance (Op. 888)		Date	Repair Reference	Yes	No
			Still Current		

## Comments

72 month inspection  
 Beacon SN  
 SB D51615-31-18, SB D51615-31-29, SB D51615-31-25 ul. Exp. 9<sup>th</sup> SB D51615-31-22

## Quality

	Yes	No		Yes	No	Yes	No
C of Q		✓	ISO C of C		✓	EASA	✓
FAA 8130	✓		MOD 640		✓	MOD 650	✓
Other		✓	Concession		✓	Ref.	


## Repair Approval

Signature  Date 17/3/20

**SHIPPER'S DECLARATION FOR DANGEROUS GOODS**

(Provide at least two copies to the airline)

<b>Shipper</b> PRIME INDUSTRIES, INC. 406 DIVIDEND DRIVE PEACHTREE CITY, GA 30269 USA	<b>Air Waybill No.</b>  Page 1 of 1 Pages  <b>Shipper's Reference Number</b> 045618 <i>(optional)</i>
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<b>Consignee</b> GALAXY AEROSPACE (M) SDN BHD SUITE 11-14, HELICOPTER CENTER MALAYSIA INTERNATIONAL AEROSPACE CENTRE SLUTAN ABDUL AZIZ SHAH AIRPORT SELANGOR, SUBANG 47200 MALAYSIA	 powered by ShipHazmat.NET
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Two completed and signed copies of this Declaration must be handed to the operator  <b>TRANSPORT DETAILS</b>  This shipment is within the limitations prescribed for <i>(delete non-applicable)</i> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">PASSENGER AND CARGO AIRCRAFT</td> <td style="width: 50%; text-align: center;">                     XXXXXXXX                      XXXXXXXX                      ONLY                      XXXXXXXX                 </td> </tr> </table>	PASSENGER AND CARGO AIRCRAFT	XXXXXXXX XXXXXXXX ONLY XXXXXXXX	<b>WARNING</b>  Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.
PASSENGER AND CARGO AIRCRAFT	XXXXXXXX XXXXXXXX ONLY XXXXXXXX		

<b>Airport of Departure</b>  <b>Airport of Destination</b>	<b>Shipment Type</b> <i>(delete non-applicable)</i> NON-RADIOACTIVE <del>RADIOACTIVE</del>
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DANGEROUS GOODS IDENTIFICATION						
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Hazard)	Packing Group	Quantity and type of packing	Packing Inst.	Authorization
UN3091	Lithium metal batteries contained in equipment	9		1 Fibreboard box x 0.1 kg	970	

**Additional Handling Information**  
 24-Hour Emergency Contact Telephone Number: CHEMTEL:+1-813-248-0585  
**MIS9516320 - PROPACK INTERNATIONAL**  
 -PREPARED IN ACCORDANCE WITH IATA/ICAO

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I declare that all of the applicable air transport requirements have been met.	<b>Name of Signatory</b> JUAN LUPERCIO  <b>Date</b> October 07, 2020  <b>Signature</b> <i>(see warning above)</i> 
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	DB Parameter Name	Expected Value/Range/Label or Required Action	Note Value	Records
1.	Baro Corr Cplt	Note Displayed Value	1009	1009
2.	Baro Corr Plt	Note Displayed Value	1009	1009
3.	Coll Pitch	Note Displayed Value	-2	-2.6
4.	Coll Pitch (Trim)	Ref. to Step 5		N/A
5.	Decision Height Cpt	Note Displayed Value	0	0
6.	Decision Height Plt	Note Displayed Value	0	0
7.	DME Distance 1	Note DME Displayed Value (If tuned and available) otherwise N/A.	0	0
8.	DME Distance 2	Note DME Displayed Value (If tuned and available) otherwise N/A.	0	0
9.	Drift Angle (FMS1)	0 (± 1 deg.)		N/A
10.	Drift Angle (FMS2)	0 (± 1 deg.)		N/A
11.	EEC1 DSCWD 1 bit 1	OFF		N/A
12.	EEC1 DSCWD 1 bit 6	Not In Flight		N/A
13.	EEC2 DSCWD 1 bit 1	OFF		N/A
14.	EEC2 DSCWD 1 bit 6	Not In Flight		N/A
15.	EEC1 DSCWD 2 bit 1	Auto (Switch on the pilot collective set to AUTO)		N/A
16.	EEC2 DSCWD 2 bit 1	Auto (Switch on the pilot collective set to AUTO)		N/A
17.	fcs1ApAttModeC	ACTIVE		N/A
18.	fcs1ApAttModeM	ACTIVE		N/A
19.	fcs1ApEngagedC	NOT ENGAGED REQUEST		N/A
20.	fcs1ApEngagedM	NOT ENGAGED REQUEST		N/A
21.	fcs1ApSasModeC	NOT ACTIVE		N/A
22.	fcs1ApSasModeM	NOT ACTIVE		N/A
23.	fcs2ApAttModeC	ACTIVE		N/A
24.	fcs2ApAttModeM	ACTIVE		N/A
25.	fcs2ApEngagedC	NOT ENGAGED REQUEST		N/A
26.	fcs2ApEngagedM	NOT ENGAGED REQUEST		N/A
27.	fcs2ApSasModeC	NOT ACTIVE		N/A
28.	fcs2ApSasModeM	NOT ACTIVE		N/A
29.	Format Cplt MFD	Note Current DU Format:	MFD	MFD
30.	Format Cplt PFD	Note Current DU Format:	PFD	PFD
31.	Format Pilot MFD	Note Current DU Format:	MFD	MFD

*[Signature]* 13/10/2020



	DB Parameter Name	Expected Value/Range/Label or Required Action	Note Value	Records
32.	Format Plot PFD	Note Current DU Format:	PFD	PFD
33.	FuelLeftQty1a	Note Displayed Value (recorded value could be different from displayed value in a range of: 16 kg)	516	512
34.	FuelRightQty1b	Note Displayed Value (recorded value could be different from displayed value in a range of: 16 kg)	512	512
35.	Glideslope Dev (MRC1)	Note Displayed Value	0	0
36.	Glideslope Dev (MRC2)	Note Displayed Value	0	0
37.	Hyd 1 Low Press	Note Status <i>Normal/Warning</i>		N/A
38.	Hyd 1 Sel	Note Selection <i>Not Selected/Selected</i>	NOT SEL	NOT SEL
39.	Hyd 2 Low Press	Note Status <i>Normal/Warning</i>		N/A
40.	Hyd 2 Sel	Note Selection ( <i>Not Selected/Selected</i> )	NOT SEL	NOT SEL
41.	HydCaution_1&2&4 Hyd Pump	Note the displayed caution, otherwise <i>Inactive</i>	1-2-4 HYD PUMP	1-2-4 HYD PUMP
42.	IAS	Note Displayed Value	0	0
43.	IGB Oil Temp	Note Displayed Value	33	33
44.	Inner Marker Cplt	Not Displayed		N/A
45.	Inner Marker Plt	Not Displayed		N/A
46.	ITT1	Note Displayed Value	0	0
47.	ITT2	Note Displayed Value	0	0
48.	Lat Acc (Tri-Axial accelerometer)	Ref. to Step 5		N/A
49.	Lat Cyc (TRIM)	Ref. to Step 5		N/A
50.	Latitude (FMS1)	Note Displayed Value	3.125	3.125
51.	Latitude (FMS2)	Note Displayed Value	3.125	3.125
52.	Loc Dev (MRC1)	Note Displayed Value	0	0
53.	Loc Dev (MRC2)	Note Displayed Value	0	0
54.	Long Acc (Tri-Axial accelerometer)	Ref. to Step 5		N/A
55.	Long Cyc (TRIM)	Ref. to Step 5		N/A
56.	Longitude (FMS1)	Note Displayed Value	101.549	101.549
57.	Longitude (FMS2)	Note Displayed Value	101.549	101.549
58.	Mag Heading	Note Displayed Value ( $\pm 1$ deg.)	144	145
59.	MFD Config Cplt	Note MFD CPLT configuration	NONE	NONE
60.	MFD Config Plt	Note MFD PLT configurator	MAINT	MAINT
61.	MGB Oil Press	Note Displayed Value ( $\pm 0.250$ EAR)	0	0
62.	MGB Oil Temp	Note Displayed Value ( $\pm 5\%$ )	31	31
63.	Middle Marker Cplt	Not displayed		N/A
64.	Middle Marker Plt	Not displayed		N/A
65.	NF1	Note Displayed Value ( $\pm 0.1\%$ )	0	0
66.	NF2	Note Displayed Value ( $\pm 0.1\%$ )	0	0
67.	NG1	Note Displayed Value ( $\pm 0.1\%$ )	0	0
68.	NG2	Note Displayed Value ( $\pm 0.1\%$ )	0	0
69.	Norm Acc (AHRS)	0 g on support ( $\pm 5\%$ )		N/A
70.	Norm Acc (Tri-Axial accelerometer)	Ref. to Step 5		N/A
71.	NR1	Note Displayed Value ( $\pm 0.1\%$ )	0	0
72.	NR2	Note Displayed Value ( $\pm 0.1\%$ )	0	0

13/10/2020

	DB Parameter Name	Expected Value/Range/Label or Required Action	Note Value	Records
73.	OAT	Note Displayed Value ( $\pm 1^\circ\text{C}$ )	31	30
74.	Outer Marker Cplt	Not displayed		N/A
75.	Outer Marker Ptt	Not displayed		N/A
76.	Pitch Angle	Note Displayed Value ( $\pm 1$ deg.)	0	0.7
77.	Press A:1	Note Displayed Value	150	145
78.	Press Alt:2	Note Displayed Value	150	145
79.	PTT Cplt	Note <i>inactive</i> (PTT Released), <i>Active</i> (PTT Pressed)	INACT	INACT
80.	PTT Ptt	Note <i>inactive</i> (PTT Released), <i>Active</i> (PTT Pressed)	INACT	INACT
81.	Radar Altitude 1a	Note Displayed Value ( $\pm 1$ feet)	-1	-1
82.	Radar Altitude 1b	Note Displayed Value ( $\pm 1$ feet)	1	0
83.	Roll Angle	Note Displayed Value ( $\pm 1$ deg.)	0	-0.18
84.	Rotor Brake	OFF		N/A
85.	Sel Altitude	Note Selected Value	128	128
86.	Sel Course Cplt	Note Selected Value	360	360
87.	Sel Course Ptt	Note Selected Value	360	360
88.	Sel Heading	Note Selected Value	144	144
89.	Sel Speed (FCS 1)	Not testable on ground	---	---
90.	Sel Speed (FCS 2)	Not testable on ground	---	---
91.	Sel Vert Speed (FCS 1)	Not testable on ground	---	---
92.	Sel Vert Speed (FCS 2)	Not testable on ground	---	---
93.	Tail Rotor Pedal (TRIM)	Ref. to Step 5		N/A
94.	TGB Oil Temp	Note Displayed Value ( $\pm 5\%$ )	33	33
95.	Time-Hour	Note the displayed Value	06	06
96.	Time-Minute	Note the displayed Value	58	58
97.	Time-Second	Note the displayed Value ( $\pm 4$ sec.)	00	00
98.	TQ1	Note Displayed Value ( $\pm 0.1\%$ )	0	0
99.	TQ2	Note Displayed Value ( $\pm 0.1\%$ )	0	0
100.	Vert Speed (ADS)	Note Displayed Value ( $\pm 30$ feet/min)	0	0
101.	Vert Speed Inertial (VIRS)	0		N/A
102.	VOR/ILS-Ch NAV1	Note Tuned Freq.	114.7	114.7
103.	VOR/ILS-Ch NAV2	Note Tuned Freq.	114.7	114.7
104.	Warn-1&2EecFail	Note which is active	INACT	INACT
105.	Warn-1&2EngFire	Note which is active	INACT	INACT
106.	Warn-1&2EngIdle	Note which is active	INACT	INACT
107.	Warn-1&2EngOilPress	Note which is active	INACT	INACT
108.	Warn-1&2EngOut	Note which is active	ENG OUT	ENG OUT
109.	Warn-1-2DCGen	Note which is active	INACT	INACT
110.	Warn-AuxMainBattHot	Note which is active	INACT	INACT
111.	Warn-BagFire	Note if it's active	INACT	INACT
112.	Warn-MgbOilPress	Note if it's active	MGB OIL PRESS	MGB OIL PRESS
113.	Warn-MgbOilTemp	Note if it's active	INACT	INACT
114.	Warn-RotorHigh	Note if it's active	INACT	INACT
115.	Warn-RotorLow	Note which is active	ROTOR LOW	ROTOR LOW

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GAM  
MD17  
DGTA

	DB Parameter Name	Expected Value/Range/Label or Required Action	Note Value	Records
116.	Wind Angle (FMS1)	0 ( $\pm$ 1 deg.)		N/A
117.	Wind Angle (FMS2)	0 ( $\pm$ 1 deg.)		N/A
118.	Wind Speed (FMS1)	0 Knots		N/A
119.	Wind Speed (FMS2)	0 Knots		N/A
120.	WOW1	Note Status <i>ON</i> (Hel. On GND), <i>OFF</i> (Hel in Flt.)	ON	ON
121.	WOW2	Note Status <i>ON</i> (Hel. On GND), <i>OFF</i> (Hel in Flt.)	ON	ON
122.	Yaw Rate	0 ( $\pm$ 1 deg.)		N/A

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Table A - Trim Position Recorded Values

PARAMETER	POSITION	REQUIRED VALUES	EXPECTED VALUES (NOTE)	RECORDED VALUE	
Lat Cyc (TRIM) (deg)	Centred	49%	50° ± 2°	0706	
	Full Left	5%	72° ± 2°	0707	
	Full Right	95%	27° ± 2°	0708	
Long Cyc (TRIM) (deg)	Centred	36%	50° ± 2°	0709	
	Full Aft	5%	68° ± 2°	0710	
	Full Fwd	95%	16° ± 2°	<del>0711</del> 0711	
Tail Rotor Pedal (TRIM) (deg)	Centred	50%	45° ± 2°	0712	
	Full Left	PRIMUS EPIC 4.8 INSTALLEI)	PRIMUS EPIC 5.6 OR SUBSEQUENT	72° ± 2°	0713
		5%			
	Full Right	PRIMUS EPIC 4.8 INSTALLEI)	PRIMUS EPIC 5.6 OR SUBSEQUENT	21° ± 2°	0714
		90%			
	Collective Pitch (TRIM) (% coll)	Centered	50%	50% ± 3%	0715
Full Up		95%	95% ± 3%	0716	
Full Down		5%	5% ± 3%	0717	

NOTE: The given angular tolerance (between synoptic page displayed angle "α" and the FDR recorded angle "β") is calculated with this formula:  $\beta = \alpha \pm \phi$  where "φ" is the angular adjustment caused by

- AIOP processing and approximation
- FCS synoptic page approximation.

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Table B - Triaxial Accelerometer Values

PARAMETER	EXPECTED VALUES	RECORDED VALUE
Lateral Acceleration (Tri-Axial)	$\approx 0 \text{ g} \pm 5\% \text{ FS}$	+ 0.00
Longitudinal Acceleration (Tri-Axial)	$\approx 0 \text{ g} \pm 5\% \text{ FS}$	+ 0.00
Normal Acceleration (Tri-Axial)	$\approx 1 \text{ g} \pm 5\% \text{ FS}$	+0.91

Table C - Recorded Audio Channels

CHANNEL	AUDIO QUALITY
Channel 1 (Hoist Comms)	SATISFACTORY
Channel 2 (Copilot ICS)	SATISFACTORY
Channel 3 (Pilot ICS - Cabin CA-900)	SATISFACTORY
Channel 4 (Cockpit Area Microphone)	SATISFACTORY

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