

British Gliding Association

Part 66L Engineer Log Book and Experience Record

FOREWORD

This logbook has been developed by the British Gliding Association (BGA) as the recommended means of recording examination results and practical maintenance experience to support an application to the Civil Aviation Authority (CAA) for the issue or variation of a Part 66L Aircraft Maintenance Licence.

This logbook provides a compact record of the personal details, relevant qualifications and experience of the user. It is designed to be used in a loose leaf form to allow the user to add or remove pages as required. While the design and organisation of this logbook is derived from existing legislation, the user may still be required to produce original or certified true copies of supporting examination, qualification and training records.

This logbook is designed to be updated and in addition to an initial licence application may then be updated to support applications for removal of restrictions or additional ratings.

The BGA operates under CAA approvals for the continuing airworthiness of Sailplanes, Self-launching Sailplanes, Touring Motor Gliders and Tug aircraft. Details of approvals and types covered can be found at <http://gliding.co.uk>. Certification of Release to Service of any aircraft within the BGA fleet requires a BGA Maintenance Authorisation. For Part 21 aircraft an appropriate Part 66L licence issued by the CAA is also required.

Most users will be volunteer maintainers gaining experience at a BGA Gliding Club. It is likely that the majority of entries will be verified by a single Supervisor.

The scope of this logbook covers L1C and L1, L2C and L2 Part 66L licence ratings.

Details on how to apply for a BGA Maintenance Authorisation can be found at <http://gliding.co.uk>. The experience requirements will satisfy the maintenance tasks in this logbook.

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1: INSTRUCTIONS FOR USE

General

Complete all entries in black ink using date format DD/MM/YYYY.

Ensure the user name and signature block is completed for every page in sections 2, 3 and 4.

Note that any false entry in this logbook in support of a licence application can constitute an offence under legislation.

Entries cannot be certified by the user.

Entries can be certified by a licenced aircraft maintenance engineer or a person authorised by the CAA. Recommendations for each section are given below, for most users a current BGA Inspector and Part 66L licence holder will be appropriate and likely to be their Supervisor throughout their training.

This logbook can be used to apply for Part 66L ratings L1C, L1, L2C and L2. For convenience colour coded sidebars are used in Sections 3 and 4 to identify which pages should be included as follows:

L1C:	The user should complete pages marked	L1C, L1, L2C, L2		
L1:	The user should complete pages marked	L1C, L1, L2C, L2	L1, L2	
L2C:	The user should complete pages marked	L1C, L1, L2C, L2	L2	
L2:	The user should complete pages marked	L1C, L1, L2C, L2	L1, L2	L2

Personal data

Complete all personal details, telephone and email data are optional. Any changes in permanent address should be recorded in the logbook and used in support of any amendment.

Supporting qualifications could be educational certificates, engineering qualifications, BGA maintenance authorisations and attendance of BGA engineering courses. Evidence of any qualification should be certified by the user's supervisor and either original or certified true copies appended to Section 5.

Include the current licence number for applications to add ratings or vary restrictions to an existing licence.

Examination Results

All Part 66L aircraft maintenance engineer exams are delivered directly by the CAA through their e-portal. Exams must be conducted in accordance with current legislation and supervised by a CAA approved invigilator. Details of current BGA invigilators can be found at <http://gliding.co.uk>. On completion of each exam results are typically available within a few minutes and it is recommended that the invigilator signs the relevant exam records in Section 3 in the section available. Ensure the invigilator CAA reference number is included. It is also recommended certified true copies of each exam pass certificate are appended to Section 5.

The training organisation for conducting the exams is the BGA and the reference number is GBR.DTO.0007.

Maintenance Experience Records

Legislation allows for experience to be gained over time as a weekend volunteer. As a minimum users must have 2 years documented maintenance experience, but it is likely that users will require more than 2 years to complete the recommended tasks and gain sufficient experience. Experience gained up to 10 years prior to the application can be entered.

In some circumstances the user can apply directly to the CAA to reduce the minimum experience time to 1 year. The user should seek guidance from the BGA if considering applying with only 1 year practical experience.

If the logbook forms part of an application for an additional category to an existing Part 66L licence, the minimum additional maintenance experience is 1 year for the additional tasks.

For each entry the user should record the date, registration (or BGA number/Tri-graph) and type of glider. It may be helpful to add brief additional notes for tasks to expand on work carried out. Each record sheet has a section for additional maintenance records, these can be useful to record additional relevant experience, or alternative experience in lieu of the recommended tasks listed.

There is no required sequence of gaining experience, the user and their supervisor can complete experience tasks appropriate to their circumstances.

Experience tasks are broken down into sections for convenience, following current legislation comprising 5 Annual Inspections, General Activities, Levelling and weighing, Flight controls and flight control systems, Electrical systems, Avionics systems, Cabin equipment/systems, Composite structures, Wooden structures, metal tube and fabric and Metal structures.

The maintenance tasks listed are **recommended** to ensure the user has a broad range of maintenance experience. As most experience will be gained in a gliding club environment, the user may record alternative tasks as evidence of a range of applicable maintenance experience.

It is acceptable for experience to be gained on non-Part 21 aircraft, for example microlight tube and fabric aircraft or non-Part 21 gliders.

If the user already holds a BGA Maintenance Authorisation for non-Part 21 gliders and is issuing a Release to Service or Permit to Fly, a Part 66L licence holder, or equivalent CAA licenced engineer must verify that this work has been carried out by the user on any record in this logbook.

It is **recommended** that as far as practical 50% of maintenance experience is acquired in the preceding 12 months of any application. In practice this can be achieved by conducting one or more annual inspection and maintenance tasks on an aircraft within this period. It is also **recommended** that as far as practical all maintenance experience is gained within a 7 year period. Note that these recommendations form part of the Acceptable Means of Compliance of current legislation and are for guidance to all parties.

Original or true certified copies of supporting documents

If the user wishes to include documents as evidence of qualifications or experience relevant to an application they should be referenced in the table and noted if original or a certified copy.

Each document should be appended to the application.

General work and educational experience

Most users will be volunteer maintainers and will have gained experience in a gliding club environment during weekends and evenings. Users are unlikely to work as full time Licensed Aircraft Engineers. User are **recommended** to use this section to provide background of their professional experience which may not be in the aviation sector, but may still be relevant to this logbook and licence application. For example the user may work in another engineering field, the user may work in profession that requires the same standards and approach as required for aircraft maintenance or the user may have other relevant volunteer experience.

This section is not mandatory but can provide an independent assessor with useful background information to support this application.

Endorsement by BGA Chief Technical Officer

The BGA Chief Technical Officer (BGA CTO) will review the users completed logbook and application as compliant and endorse the application for the appropriate Part 66 L licence on behalf of the BGA. While this does not replace formal assessment by CAA engineering licensing staff it is the equivalent of a BGA assessment for a BGA Maintenance Authorisation.

There may be several BGA CTO Endorsements if after an initial application there are subsequent applications for lifting of restrictions or adding a new rating, for example applying user with a L1C rating applying for a L1 rating.

Logbook owner name	
Signature	



2: PERSONAL DATA

Title:	Mr	Forename(s):		Surname:	
Permanent Address:			Nationality:		
			Post code:		
			Date of Birth:		
			Telephone (*):		
Email address (*):			Licence number (*):		

(*): optional data

Item	Change of Permanent Address details
1	
2	
3	
4	

Logbook owner name	
Signature	

3: EXAMINATION RESULTS

Module 1L - Basic Knowledge	
Syllabus Reference	Syllabus Details & Associated Learning Objective
1L	Basic Knowledge
1L.1	Mathematics & Arithmetic
1L.2	Physics & Matter
1L.3	Electrics & DC Circuits
1L.4	Aerodynamics & Aerostatics
1L.5	Workplace safety & Environmental protection

Exam result	
Date passed	
Pass mark	

CAA Invigilator for Training Organisation GBR.DTO.0007 (BGA)	
Name	
CAA reference	
Signature to verify result	

Module 2L - Human Factors	
Syllabus Reference	Syllabus Details & Associated Learning Objective
2L	Human Factors
2L.1	General
2L.2	Human performance and limitations
2L.3	Social psychology
2L.4	Factors affecting performance
2L.5	Physical environment

Exam result	
Date passed	
Pass mark	

CAA Invigilator for Training Organisation GBR.DTO.0007 (BGA)	
Name	
CAA reference	
Signature to verify result	

Logbook owner name	
Signature	

Module 3L - Aviation Legislation

Syllabus Reference	Syllabus Details & Associated Learning Objective
3L	Aviation Legislation
3L.1	Regulatory framework
3L.2	Repairs & modifications
3L.3	Maintenance data

Exam result

Date passed	
Pass mark	

CAA Invigilator for Training Organisation GBR.DTO.0007 (BGA)

Name	
CAA reference	
Signature to verify result	

Module 7L - Airframe General

Syllabus Reference	Syllabus Details & Associated Learning Objective
7L	Airframe General
7L.1	Flight control system
7L.2	Airframe
7L.3	Fasteners
7L.4	Locking equipment
7L.5	Weight & balance levelling
7L.6	Rescue systems
7L.7	On-board modules
7L.8	On-board modules installation and connections
7L.9	Piston engine propulsion
7L.10	Propellor
7L.11	Retraction system
7L.12	Physical inspection procedures

Exam result

Date passed	
Pass mark	

CAA Invigilator for Training Organisation GBR.DTO.0007 (BGA)

Name	
CAA reference	
Signature to verify result	

Logbook owner name	
Signature	

Module 12L - Radio Com/ELT/Transponder/Instruments	
Syllabus Reference	Syllabus Details & Associated Learning Objective
12L	Radio Com/ELT/Transponder/Instruments
12L.1	Radio Com/ELT
12L.2	Transponder
12L.3	Instruments

Exam result	
Date passed	
Pass mark	

CAA Invigilator for Training Organisation GBR.DTO.0007 (BGA)	
Name	
CAA reference	
Signature to verify result	

Module 5L - Airframe Composite	
Syllabus Reference	Syllabus Details & Associated Learning Objective
5L	Airframe Composite
5L.1	Airframe fibre-reinforced plastic (FRP)
5L.2	Material
5L.3	Assembly of Fibre-reinforced composite structure airframes
5L.4	Identifying damage
5L.4	Mold making
5L.5	Performance of practical activities

Exam result	
Date passed	
Pass mark	

CAA Invigilator for Training Organisation GBR.DTO.0007 (BGA)	
Name	
CAA reference	
Signature to verify result	

Logbook owner name	
Signature	

Module 4L - Airframe Wooden/Metal Tube and Fabric	
Syllabus Reference	Syllabus Details & Associated Learning Objective
4L	Airframe wooden/Metal tube & Fabric
4L.1	Airframe wooden/combination of metal tube and fabric
4L.2	Material
4L.3	Identifying damage
4L.4	Performance of practical activities

Exam result	
Date passed	
Pass mark	

CAA Invigilator for Training Organisation GBR.DTO.0007 (BGA)	
Name	
CAA reference	
Signature to verify result	

Module 6L - Airframe Metal	
Syllabus Reference	Syllabus Details & Associated Learning Objective
6L	Airframe Metal
6L.1	Airframe metal
6L.2	Material
6L.3	Identifying damage
6L.4	Assembly of metal and composite construction airframes
6L.4	Fasteners
6L.5	Performance of practical activities

Exam result	
Date passed	
Pass mark	

CAA Invigilator for Training Organisation GBR.DTO.0007 (BGA)	
Name	
CAA reference	
Signature to verify result	

Logbook owner name	
Signature	



Module 8L - Power Plant	
Syllabus Reference	Syllabus Details & Associated Learning Objective
8L	Power Plant
8L.1	Noise limits
8L.2	Piston engines
8L.3	Propellor
8L.4	Engine control devices
8L.5	Hosepipes
8L.6	Accessories
8L.7	Ignition system
8L.8	Induction and exhaust systems
8L.9	Fuels and lubricants
8L.10	Documentation
8L.11	Illustrative material
8L.12	Practical experience
8L.13	Gas exchange in internal combustion engines
8L.14	Ignition, combustion and carburation
8L.15	Flight instruments in aircraft with injection engines
8L.16	Maintenance of aircraft with injection engines
8L.17	\workplace safety and safety provisions
8L.18	Visual aids

Module 8L - Power Plant (continued)	
Syllabus Reference	Syllabus Details & Associated Learning Objective
8L.19	Electrical propulsion
8L.20	Jet propulsion
8L.21	Full authority digital engine control (FADEC)
Exam result	
Date passed	
Pass mark	
CAA Invigilator for Training Organisation GBR.DTO.0007 (BGA)	
Name	
CAA reference	
Signature to verify result	

Logbook owner name	
Signature	



4: MAINTENANCE EXPERIENCE RECORDS

Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
ANNUAL INSPECTIONS						
			Annual Inspection #1			
			Annual Inspection #2			
			Annual Inspection #3			
			Annual Inspection #4			
			Annual Inspection #5			
Additional maintenance tasks (Annual Inspections)						

L1C, L1, L2C, L2

Logbook owner name	
Signature	



Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
GENERAL ACTIVITIES						
			Placards check or replace			
			Weighing, weight & balance sheet - check documentation, placards & weighing calculation			
			Documentation of annual inspection			
			Review records for compliance with airworthiness directives			
			Inspection after an occurrence			
			Dismantling/reinstallation of wings and empennages			
LEVELLING AND WEIGHING						
			Level the sailplane			
			Weighing, weight & balance sheet			
			Prepare a weight and balance amendment			
			Check the list of equipment			
Additional maintenance tasks (General & Weighing)						

L1C, L1, L2C, L2

Logbook owner name	
Signature	



Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
FLIGHT CONTROLS AND FLIGHT CONTROL SYSTEMS						
			Aileron, flaps: Removal — Balancing — Reinstallation			
			Elevator: Removal — Balancing — Reinstallation			
			Rudder: Removal — Balancing — Reinstallation			
			Rudder cable: Fabrication and installation			
			Elevator pushrod: Installation			
			Safeguarding of pins, screws, castellated			
			Sealing of gaps, all control surfaces IAW TSM			
Additional maintenance tasks (Flight controls & Systems)						

L1C, L1, L2C, L2

Logbook owner name	
Signature	



Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
ELECTRICAL SYSTEMS						
			Electrical components, wiring: Removal — Installation			
			Batteries — Servicing			
AVIONICS SYSTEMS						
			COM: Removal — Installation			
			NAV: Removal — Installation			
			XPDR: Removal — Installation			
			Antenna/antenna cable: Removal — Installation			
Additional maintenance tasks (Electrical & Avionics)						

L1C, L1, L2C, L2

Logbook owner name	
Signature	



Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
CABIN EQUIPMENT/SYSTEMS						
			Belts/safety harnesses: Removal — Installation			
			Oxygen system removal installation — Test			
			Canopy replacement or repair			
			Pitot/static system: Removal — Installation — Test			
			Flight instruments: Removal — Installation			
			Installation of approved equipment - rear altimeter			
			Compass: Installation — Compensation			
			Tow release: Removal — Installation			
			Water ballast system: Removal — Installation — Test			
			Undercarriage: Removal — Installation			
			Brake system: Replacement of components			
Additional maintenance tasks (Cabin Equipment & Systems)						

L1C, L1, L2C, L2

Logbook owner name	
Signature	



Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
COMPOSITE STRUCTURES						
			Laminate repair			
			Sandwich structure repair			
			Partial gel coat repair			
			Complete gel coating			
			Repair of fairings			
Additional maintenance tasks (Composite Structures)						

L1C, L1, L2C, L2

Logbook owner name	
Signature	



Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
WOODEN STRUCTURES, METAL TUBES AND FABRIC						
			Inspection/testing for damages			
			Rib structure repair			
			Plywood skin repair			
			Recover or repair structure with fabric			
			Protective coating and finishing			
			Install patch on fabric material			
			Repair of fairings			
Additional maintenance tasks						

L1, L2

Logbook owner name	
Signature	



Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
METAL STRUCTURES						
			Crack testing			
			Repair of covering			
			Drilling cracks			
			Riveting jobs			
			Bonding of structures			
			Anti-corrosion treatment			
			Repair of fairings, skids, U/C fairing			
Additional maintenance tasks						

L1, L2

Logbook owner name	
Signature	



Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
GENERAL ACTIVITIES						
			Verify and adjustment of folding system of powered sailplanes			
			Refuel aircraft			
			Defuel aircraft			
			Check/replenish oil level			
			Troubleshoot faulty system			
			Replace engine			
			Repair cooling baffles			
			Repair cowling			
			Adjust cowl flaps			
			Assist in wet & dry motoring check & manual engine start			
Additional maintenance tasks						

L2

Logbook owner name	
Signature	



Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
FUEL						
			Replace booster pump			
			Replace fuel selector			
			Replace/test fuel control valves			
			Replace water drain valve			
			Check/calculate fuel contents manually			
			Check filters			
			Check calibration of fuel quantity gauges			
Additional maintenance tasks						

L2

Logbook owner name	
Signature	



Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
PROPELLER						
			Assemble prop after transportation			
			Replace propeller			
			Replace governor			
			Adjust governor			
			Perform static functional checks			
			Check operation during ground run			
			Check track			
			Assessment of blade damage IAW AMM			
			Dynamically balance prop			
			Troubleshoot faulty system			
Additional maintenance tasks						

L2

Logbook owner name	
Signature	



Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
PISTON ENGINES						
			Remove/install reduction gear			
			Check crankshaft run-out			
			Check tappet clearance			
			Check compression			
			Extract broken stud			
			Install helicoil			
			Perform ground run			
			Establish/check reference RPM			
			Troubleshoot faulty system			
Additional maintenance tasks						

L2

Logbook owner name	
Signature	



Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
FUEL AND CONTROL, PISTON						
			Replace engine driven pump			
			Adjust AMC			
			Adjust ABC			
			Install carburettor/injector			
			Adjust carburettor/injector			
			Clean injector nozzels			
			Replace primer line			
			Check carburettor float setting			
			Troubleshoot faulty system			
Additional maintenance tasks						

L2

Logbook owner name	
Signature	



Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
IGNITION SYSTEMS, PISTON						
			Change magneto			
			Change ignition vibrator			
			Change plaugs			
			Test plugs			
			Check H.T. leads			
			Install new leads			
			Check timing			
			Check system bonding			
			Troubleshoot faulty system			
Additional maintenance tasks						

L2

Logbook owner name	
Signature	



Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
ENGINE CONTROLS						
			Rig thrust lever			
			Rig RPM control			
			Rig mixture HP cock lever			
			Rig power lever			
			Check controls for correct assembly and locking			
			Check controls for range and direction of movement			
			Adjust pedestal micro-switches			
			Troubleshoot faulty system			
Additional maintenance tasks						

L2

Logbook owner name	
Signature	



Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
ENGINE INDICATING						
			Replace engine instrument(s)			
			Replace oil temperature bulb			
			Replace thermocouples			
			Check calibration			
			Troubleshoot faulty system			
EXHAUST, PISTON						
			Replace exhaust gasket			
			Inspect welded repair			
			Pressure check cabin heater muffler.			
			Troubleshoot faulty system			
Additional maintenance tasks						

L2

Logbook owner name	
Signature	



Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
OIL						
			Change oil			
			Check filter(s)			
			Adjust pressure relief valve			
			Replace oil tank			
			Replace oil pump			
			Replace oil cooler			
			Replace firewall shut off valve			
			Perform oil dilution test			
			Troubleshoot faulty system			
Additional maintenance tasks						

L2

Logbook owner name	
Signature	



Date	Aircraft registration	Aircraft Type	Task	Verifier		
				Name	Licence ref.	Signature
STARTING						
			Replace starter			
			Replace start relay			
			Replace start control valve			
			Check cranking speed			
			Troubleshoot faulty system			
TURBINES, PISTON ENGINES						
			Replace PRT			
			Replace turbo-blower			
			Replace heat shields			
			Replace waste gate			
			Adjust density controller			
Additional maintenance tasks						

L2

Logbook owner name	Dominic Newton
Signature	



6: GENERAL WORK AND EDUCATIONAL EXPERIENCE

Period	Organisation	Description of Experience

Logbook owner name	Dominic Newton
Signature	



Period	Organisation	Description of Experience

7: ENDORSEMENT BY BRITISH GLIDING ASSOCIATION CHIEF TECHNICAL OFFICER

INITIAL APPLICATION

EXAMINATIONS

The applicant has completed and passed all exams appropriate to the rating applied for in accordance with Appendix VII of Part 66 and supervised by a CAA approved invigilator.

WORK EXPERIENCE AND RECORDS

The applicant has completed acceptable practical aircraft maintenance experience across a representative cross section appropriate to the rating applied for.

The applicant has completed their training in a volunteer capacity as defined in AMC 66.A.30(a)(4) while demonstrating a sufficient level of competency.

The applicant meets the requirements for a BGA Maintenance Authorisation.

ENDORSEMENT

I hereby certify I have reviewed the applicants examination results, work experience and supporting documents and hereby endorse the application for Part 66 **L1C / L1 / L2C / L2** (*)

Name: _____

Position: British Gliding Association Chief Technical Officer

Signature: _____

Date: _____

(*) Strike through where not applicable to this endorsement

APPLICATION FOR ADDITIONAL RATING / APPLICATION FOR REMOVAL OF RESTRICTION (*)

EXAMINATIONS

The applicant has completed and passed all exams appropriate to the rating applied for in accordance with Appendix VII of Part 66 and supervised by a CAA approved invigilator.

WORK EXPERIENCE AND RECORDS

The applicant has completed acceptable practical aircraft maintenance experience across a representative cross section appropriate to the rating applied for.

The applicant has completed their training in a volunteer capacity as defined in AMC 66.A.30(a)(4) while demonstrating a sufficient level of competency.

The applicant meets the requirements for a BGA Maintenance Authorisation.

ENDORSEMENT

I hereby certify I have reviewed the applicants examination results, work experience and supporting documents and hereby endorse the application for Part 66 **L1C / L1 / L2C / L2** (*)

Name: _____

Position: British Gliding Association Chief Technical Officer

Signature: _____

Date: _____

(*) Strike through where not applicable to this endorsement

APPLICATION FOR ADDITIONAL RATING / APPLICATION FOR REMOVAL OF RESTRICTION (*)

EXAMINATIONS

The applicant has completed and passed all exams appropriate to the rating applied for in accordance with Appendix VII of Part 66 and supervised by a CAA approved invigilator.

WORK EXPERIENCE AND RECORDS

The applicant has completed acceptable practical aircraft maintenance experience across a representative cross section appropriate to the rating applied for.

The applicant has completed their training in a volunteer capacity as defined in AMC 66.A.30(a)(4) while demonstrating a sufficient level of competency.

The applicant meets the requirements for a BGA Maintenance Authorisation.

ENDORSEMENT

I hereby certify I have reviewed the applicants examination results, work experience and supporting documents and hereby endorse the application for Part 66 **L1C / L1 / L2C / L2** (*)

Name: _____

Position: British Gliding Association Chief Technical Officer

Signature: _____

Date: _____

(*) Strike through where not applicable to this endorsement