

MISSION M108

Light Sport Aircraft Kit Description



LAMBERT AIRCRAFT ENGINEERING



Mission M108 Kit Description

For the private owner, an aircraft operating on a permit to fly offers significant advantages. However, European regulations currently do not allow permit category aircraft to be marketed as a 'ready to fly' fully factory-built aircraft. Therefore, the Mission M108 is available as a kit.

There is a choice between a Standard Kit and an Advanced Kit with optional Build Assist Program. Both kits and the Build Assist Program are UK LAA approved.

Standard Kit

The Standard Kit is delivered with a lower pre-build level than the Advanced Kit. In other words, it goes off our assembly line at an earlier stage. Standard Kits do not have an optional Build Assist Program.

The Standard Kit will be most appealing to people who have some previous experience with aircraft building. Nevertheless, it is not beyond the scope of a first time builder and could be your once in a lifetime opportunity to enjoy building your own aircraft.

Typical completion time for a Standard Kit is around 500 hours.

Advanced Kit

The Advanced Kit permits you to complete assembly work on the airframe structure and fabric covering under supervision in our Mission M108 Builder's Centre at the factory. A significant reduction in build time is achieved through as the build process is well organized and optimized.

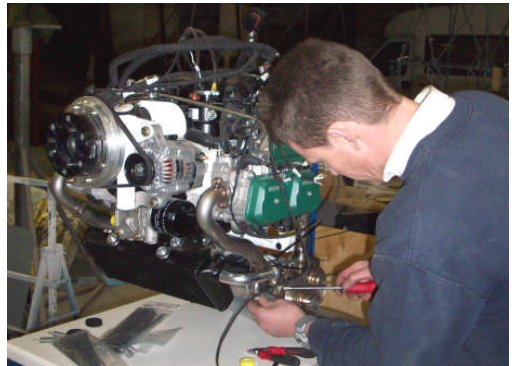
The Advanced Kit is really the way to go for those people who can't wait to fly their Mission M108. Typical completion time for an Advanced Kit is around 250 hours.

Advanced Kit with Build Assist Program (3weeks2completion)

When choosing for the Build Assist Program, you can complete your Advanced Kit in our Mission M108 Builder's Centre at the factory in as little as 3 weeks.

The Build Assist Program eliminates the need to set up your own home workshop with fixtures and specific tools. Professional factory supervision rules out chances for making mistakes and resulting lost time and wasted material.

With the Build Assist Program option, your Mission M108 aircraft will be delivered with a certificate of build quality, and be covered by a 2 year limited product warranty, (no difference with our fully factory-built aircraft).



Kit Contents

	Standard Kit	Advanced Kit	Adv. kit w/ build assist
Module 1: Airframe & systems Wings, control surfaces & wing struts Stabiliser, elevators, rudder & tailplane struts Fuselage structure Landing gear Control systems Seats, seat harnesses , windows, floor panels, turtledeck Seat & cabin upholstery Covering supplies & paint	● ● ● ● ● ● - ●	● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●
Module 2: Powerplant Engine with standard engine mounted accessories Oil cooler, exhaust, voltage regulator Propeller & spinner Engine mount, cowlings Fuel system	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
Module 3: Electrical, Instruments & avionics Basic electrical system Blank instrument panel Pre wired instrument panel with selected equipment (see avionics options brochure for details)	● ● ○	● - ○	● - ●

● Standard ○ Optional - Not included

Each Mission M108 kit is supplied as a **complete** package, except that seat & cabin upholstery and instruments are not included in the Standard Kit. Otherwise the contents are the same for the Standard and Advanced Kit; only the pre-build level is different.

The breakdown in modules as shown above is for a clarity of information only. Modules can not be ordered separately.



Mission M108 - Kit pre-build levels

	Standard Kit	Advanced Kit	Adv. kit w/ build assist
Wings			
Wings structure pre-assembled on production jig	●	+	+
Flap and aileron hinges installed	●	+	+
Wing strut attachment fittings installed	●	+	+
Fuel tanks installed	-	+	+
Leading & trailing edges and wing tips fitted	-	+	+
Fabric covering	-	+	+
Wing struts assembled for correct rigging	●	●	●
Ailerons & flaps			
Aileron & flap components assembled	-	+	+
Fabric covering	-	+	+
Fuselage			
Steel fuselage space frame, welded and painted	●	●	●
Fabric covering	-	+	+
Empennage			
Horizontal stabiliser, elevators & rudder welded & painted	●	●	●
Fabric covering	-	+	+
Airframe - general			
Airframe exterior painting	-	●	●
Control systems, landing gear, brakes & fuel system			
Components assembled & installed	-	-	++
Firewall forward installation			
Components installed	-	-	++
Basic electrical system			
Components installed	-	-	++
Instrument panel			
Prewired & assembled instrument panel	○	○	●
Ground & flight checkout package			
Weighing, ground running, dynamic propeller balancing	○	○	●
Calibration and inspection of instruments & avionics,	○	○	●
Flight testing programme & owner familiarization flight	○	○	●
Typical time for completion	500 h	300 h	3 weeks

- Included ○ Optional - Not included
- + Included with advanced kit, requires 1 week factory visit
- ++ Included with Build Assist Program, requires 2 week factory visit

The Advanced Kit requires a 1 week factory visit for fabric covering. After fabric covering, the airframe is painted at the factory prior to delivery.

The optional Build Assist Program allows the completion of the Advanced Kit in a time frame of 3 weeks (1 week fabric covering + 2 weeks final assembly) on the factory assembly line whilst working under factory supervision.

Upon completion of the Build Assist Program, the aircraft can be expected to be ready for ground testing and final inspection prior to being cleared for first flight.



www.flyM108.co.uk